206230

Remedial Investigation Report
LCP Chemicals, Inc. Superfund Site
Linden, New Jersey
Volume II of V
Appendices A through G

Prepared for
ISP Environmental Services, Inc.
500 Hercules Road
Wilmington, Delaware 19808-1599

July 2013

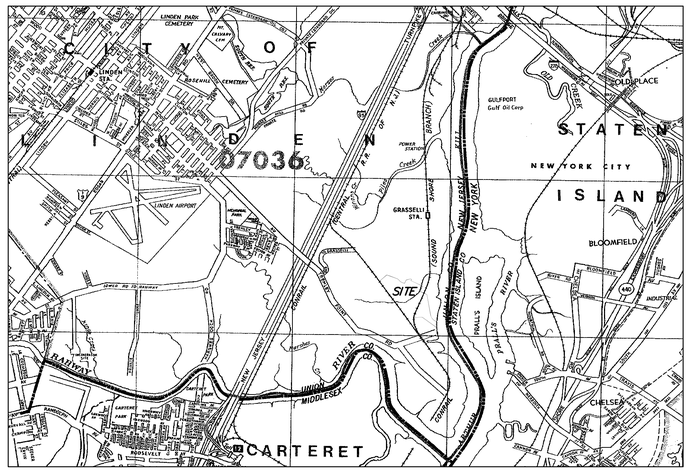
Project Number: 137005

Brown AND Caldwell
2 Park Way, Suite 2A
Upper Saddle River, New Jersey 07458

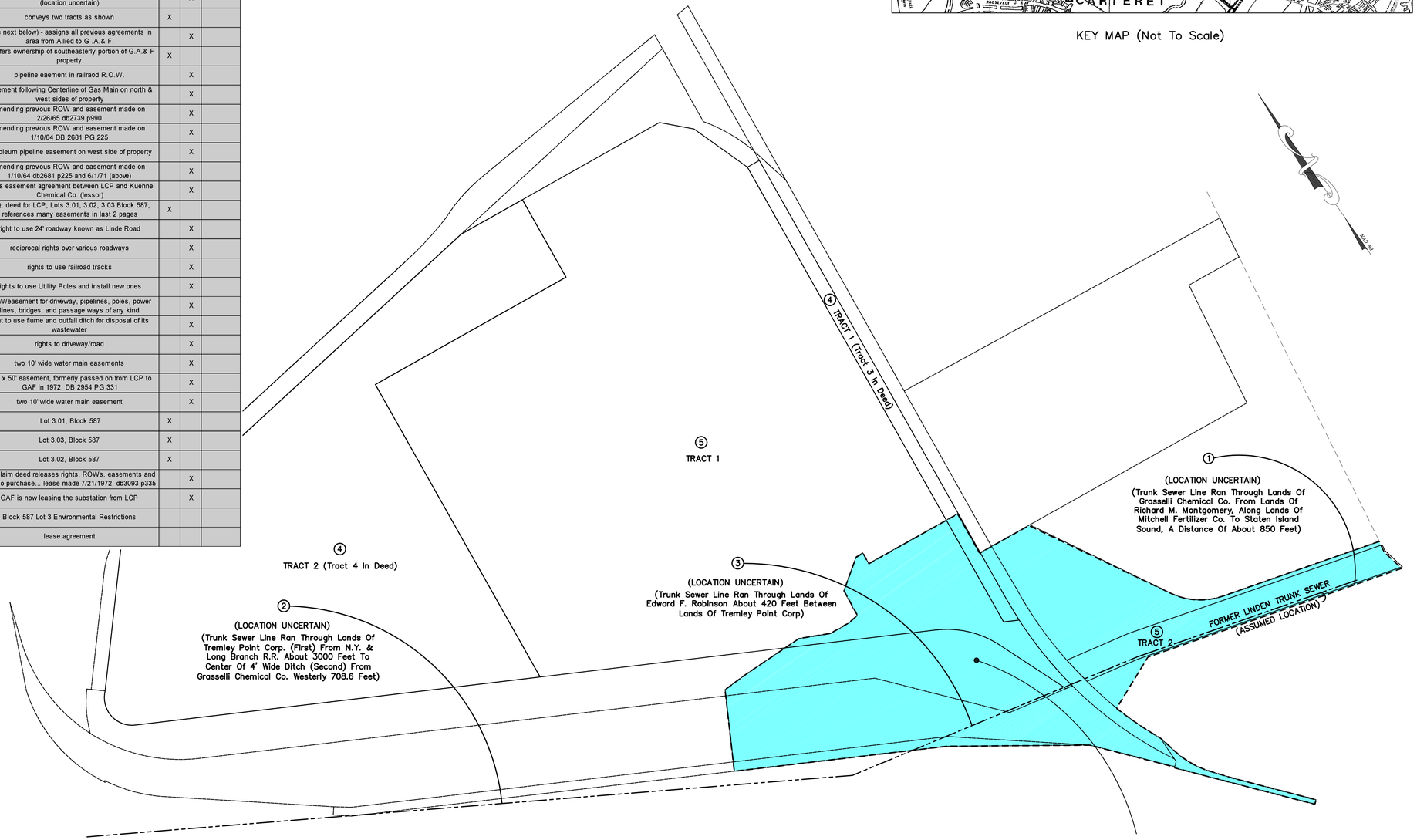
Appendix A: Property Transfers

TABLE OF DOCUMENTS SUPPLIED

No.	Date	Book	Page	Grantee	Grantor	Description	Property	Easement	
1	7/27/1909	533	233	Borough of Linden	Grasselli Chemical Company	trunk sewer line through property to Staten Island Sound		X	
2	9/27/1909	533	589	Borough of Linden	Tremley Point Corporation	Trunk Sewer line through property		X	
3	2/28/1912	588	499	Borough of Linden	Edward F. Robinson	Trunk Sewer line through property		X	
4	10/20/1928	1165	576	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
5	10/20/1928	1165	582	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
6	11/30/1928	1162	250	E.I. duPont de Nemours and Company	The Grasselli Chemical Company	conveys lands not previously conveyed to Grasselli Dystuff Corp. (exceptions to Tract 5)	X		
7	10/31/1939	1391	302	General Aniline & Film Corporation	General Aniline & Film Corporation	consolidates and renames General Aniline Works And American I.G. Chemicals into General Aniline & Film	X		
8	5/5/1942	1458	210	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
9	9/15/1949	1776	7	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
10	7/7/1950	1847	79	duPont de Nemours	Central Railroad Company of New Jersey	irrevocable license to keep, maintain and use a private access road across railroad property		X	
11	4/18/1951	1898	168	Linden Roselle Sewerage Authority	Sinclair Refining Company	Block 587, Lots 5 & 21	X		
12	1/27/1958	2356	634	General Aniline & Film Corporation	Central Railroad Company of New Jersey	copy not included. believed to convey the railroad property highlighted	X		
13	7/9/1963	2648	319	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	Block 587, Lots 2.01, 2.02	X		
14	1/10/1964	2681	229	City of Linden	General Aniline & Film Corporation	easement for 36" Linden storm sewer		X	
15	11/19/1965	2771	858	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to maintain and use pipeline bridge and pipelines crossing railroad (location uncertain)		X	
16	11/19/1965	2771	862	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to use raodway crossing railroad (location uncertain)		X	
17	1/19/1967	2794	745	General Aniline & Film Corporation	The Central Railroad Company of New Jersey	conveys two tracts as shown	X		
18	5/15/1967	2802	839	General Aniline & Film Corporation	Allied Chemical Corporation	(see next below) - assigns all previous agreements in area from Allied to G .A.& F.		X	
19	5/15/1967	2802	536	General Aniline & Film Corporation	Allied Chemical Corporation	transfers ownership of southeasterly portion of G.A.& F property	X		
20	11/3/1967	2821	929	Union Carbide Corporation	General Aniline & Film Corporation	pipeline eaement in railraod R.O.W.		X	
21	8/20/1970	2909	697	Elizabethtown Gas Company	GAF Corporation	easement following Centerline of Gas Main on north & west sides of property		X	
22	2/24/1971	2917	226	Elizabethtown Water Company	GAF Corporation	amending previous ROW and easement made on 2/26/65 db2739 p590		X	
23	6/1/1971	2924	209	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 DB 2681 PG 225		X	
24	8/12/1971	2928	677	Buckeye Pipe Lins Company	GAF Corporation	petroleum pipeline easement on west side of property		X	
25	4/17/1972	2946	162	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 db2681 p225 and 6/1/71 (above)		X	
26	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products, Inc.	cross easement agreement between LCP and Kuehne Chemical Co. (lessor)		X	
27	8/24/1972	2954	273	Linden Chlorine Products	GAF Corporation	P.Q. deed for LCP, Lots 3.01, 3.02, 3.03 Block 587, references many easements in last 2 pages	X		
28	8/24/1972	2954	284	Linden Chlorine Products	GAF Corporation	right to use 24' roadway known as Linde Road		X	
29	8/24/1972	2954	296	Linden Chlorine Products	GAF Corporation	reciprocal rights over various roadways		X	
30	8/24/1972	2954	312	Linden Chlorine Products	GAF Corporation	rights to use railroad tracks		X	
31	8/24/1972	2954	323	Linden Chlorine Products	GAF Corporation	rights to use Utility Poles and install new ones		X	
32	8/24/1972	2954	331	GAF Corporation	Linden Chlorine Products	ROW/easement for driveway, pipelines, poles, power lines, bridges, and passage ways of any kind		X	
33	8/24/1972	2954	340	GAF Corporation	Linden Chlorine Products	right to use flume and outfall ditch for disposal of its wastewater		X	
34	1/17/1974	2995	280	Northvile Linden Terminal Corp.	GAF Corporation	rights to driveway/road		X	
35	5/8/1975	3033	986	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easements		X	
36	5/22/1975	3034	974	Northvile Linden Terminal Corp.	GAF Corporation	120' x 50' easement, formerly passed on from LCP to GAF in 1972. DB 2954 PG 331		X	
37	3/5/1976	3061	4	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easement		X	
38	12/14/1979	3207	82	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.01, Block 587	X		
39	12/14/1979	3207	93	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.03, Block 587	X		
40	12/14/1979	3207	97	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.02, Block 587	X		
41	8/11/1983	3331	219	Linden Chlorine Products	Kuehne Chemical Company	quit-claim deed releases rights, ROWs, easements and right to purchase... lease made 7/21/1972, db3093 p335		X	
42	9/17/1986	3499	97	GAF Corporation	Linden Chlorine Products	GAF is now leasing the substation from LCP		X	
43	9/23/1994	4228	125		Linden Chlorine Products	Block 587 Lot 3 Environmental Restrictions			
44	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products	lease agreement			



KEY MAP (Not To Scale)



GRASSELLI DYESTUFF CORPORATION – PRIOR TO 1939 LCP SITE

REVISIONS	
6	
5	
4	
3	
2	
1	

DATE: 4/23/08 SCALE: 1"=200' FLD. BK.: PAGE:

PROJ.: 2001202 CHKD.:

0 100 200 400 800

Keller & Kirkpatrick Certificate of Authorization #24GA28031400
301 Gibraltar Drive, Suite 2A, Morris Plains, NJ. 07950 973-377-8500
CONSULTING ENGINEERS LANDSCAPE ARCHITECTS
LAND SURVEYORS PLANNERS
WERNER A. MALL, Professional Land Surveyor, Lic. 37201
GEORGE P. JAMES, Professional Engineer, Lic. 22934

CHRONOLOGICAL DEED PLOTTING
FOR
LCP Chemicals & Plastics, Inc.
TAX BLOCK 587
CITY OF LINDEN, UNION COUNTY, NEW JERSEY

SHEET No. 1 OF 6

R2-0003605

TABLE OF DOCUMENTS SUPPLIED

No.	Date	Book	Page	Grantee	Grantor	Description	Property	Easement	
1	7/27/1909	533	233	Borough of Linden	Grasselli Chemical Company	trunk sewer line through property to Staten Island Sound		X	
2	9/27/1909	533	589	Borough of Linden	Tremley Point Corporation	Trunk Sewer line through property		X	
3	2/28/1912	588	499	Borough of Linden	Edward F. Robinson	Trunk Sewer line through property		X	
4	10/20/1928	1165	576	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
5	10/20/1928	1165	582	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
6	11/30/1928	1162	250	E.I. duPont de Nemours and Company	The Grasselli Chemical Company	conveys lands not previously conveyed to Grasselli Dystuff Corp. (exceptions to Tract 5)	X		
7	10/31/1939	1391	302	General Aniline & Film Corporation	General Aniline & Film Corporation	consolidates and renames General Aniline Works And American I.G. Chemicals into General Aniline & Film	X		
8	5/5/1942	1458	210	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
9	9/15/1949	1776	7	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
10	7/7/1950	1847	79	duPont de Nemours	Central Railroad Company of New Jersey	irrevocable license to keep, maintain and use a private access road across railroad property		X	
11	4/18/1951	1898	168	Linden Roselle Sewerage Authority	Sinclair Refining Company	Block 587, Lots 5 & 21	X		
12	1/27/1958	2356	634	General Aniline & Film Corporation	Central Railroad Company of New Jersey	copy not included. believed to convey the railroad property highlighted	X		
13	7/9/1963	2648	319	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	Block 587, Lots 2.01, 2.02	X		
14	1/10/1964	2681	229	City of Linden	General Aniline & Film Corporation	easement for 36" Linden storm sewer		X	
15	11/19/1965	2771	858	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to maintain and use pipeline bridge and pipelines crossing railroad (location uncertain)		X	
16	11/19/1965	2771	862	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to use raodway crossing railroad (location uncertain)		X	
17	1/19/1967	2794	745	General Aniline & Film Corporation	The Central Railroad Company of New Jersey	conveys two tracts as shown	X		
18	5/15/1967	2802	839	General Aniline & Film Corporation	Allied Chemical Corporation	(see next below) - assigns all previous agreements in area from Allied to G .A.& F.		X	
19	5/15/1967	2802	536	General Aniline & Film Corporation	Allied Chemical Corporation	transfers ownership of southeasterly portion of G.A.& F property	X		
20	11/3/1967	2821	929	Union Carbide Corporation	General Aniline & Film Corporation	pipeline eaement in railraod R.O.W.		X	
21	8/20/1970	2909	697	Elizabethtown Gas Company	GAF Corporation	easement following Centerline of Gas Main on north & west sides of property		X	
22	2/24/1971	2917	226	Elizabethtown Water Company	GAF Corporation	amending previous ROW and easement made on 2/26/65 db2739 p590		X	
23	6/1/1971	2924	209	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 DB 2681 PG 225		X	
24	8/12/1971	2928	677	Buckeye Pipe Lins Company	GAF Corporation	petroleum pipeline easement on west side of property		X	
25	4/17/1972	2946	162	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 db2681 p225 and 6/1/71 (above)		X	
26	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products, Inc.	cross easement agreement between LCP and Kuehne Chemical Co. (lessor)		X	
27	8/24/1972	2954	273	Linden Chlorine Products	GAF Corporation	**P.Q.** deed for **LCP**, Lots 3.01, 3.02, 3.03 Block 587, references many easements in last 2 pages	X		
28	8/24/1972	2954	284	Linden Chlorine Products	GAF Corporation	right to use 24' roadway known as Linde Road		X	
29	8/24/1972	2954	296	Linden Chlorine Products	GAF Corporation	reciprocal rights over various roadways		X	
30	8/24/1972	2954	312	Linden Chlorine Products	GAF Corporation	rights to use railroad tracks		X	
31	8/24/1972	2954	323	Linden Chlorine Products	GAF Corporation	rights to use Utility Poles and install new ones		X	
32	8/24/1972	2954	331	GAF Corporation	Linden Chlorine Products	ROW/easement for driveway, pipelines, poles, power lines, bridges, and passage ways of any kind		X	
33	8/24/1972	2954	340	GAF Corporation	Linden Chlorine Products	right to use flume and outfall ditch for disposal of its wastewater		X	
34	1/17/1974	2995	280	Northvile Linden Terminal Corp.	GAF Corporation	rights to driveway/road		X	
35	5/8/1975	3033	986	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easements		X	
36	5/22/1975	3034	974	Northvile Linden Terminal Corp.	GAF Corporation	120' x 50' easement, formerly passed on from LCP to GAF in 1972. DB 2954 PG 331		X	
37	3/5/1976	3061	4	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easement		X	
38	12/14/1979	3207	82	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.01, Block 587	X		
39	12/14/1979	3207	93	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.03, Block 587	X		
40	12/14/1979	3207	97	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.02, Block 587	X		
41	8/11/1983	3331	219	Linden Chlorine Products	Kuehne Chemical Company	quit-claim deed releases rights, ROWs, easements and right to purchase... lease made 7/21/1972, db3093 p335		X	
42	9/17/1986	3499	97	GAF Corporation	Linden Chlorine Products	GAF is now leasing the substation from LCP		X	
43	9/23/1994	4228	125		Linden Chlorine Products	Block 587 Lot 3 Environmental Restrictions			
44	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products	lease agreement			

E.I. DUPONT DE NEMOURS & COMPANY – 1928

LCP SITE

REVISIONS	
6	
5	
4	
3	
2	
1	

DATE: 4/23/08 SCALE: 1"=200' FLD. BK.:
PROJ.: 2001202 CHKD.: PAGE:

0 100 200 400 800

Keller & Kirkpatrick
Certificate of Authorization #24GA28037400
301 Gibraltar Drive, Suite 2A, Morris Plains, NJ. 07950 973-377-8500
CONSULTING ENGINEERS
LAND SURVEYORS
LANDSCAPE ARCHITECTS
PLANNERS
WERNER A. WALL, Professional Land Surveyor, Lic. 37201
GEORGE P. JAMES, Professional Engineer, Lic. 22934

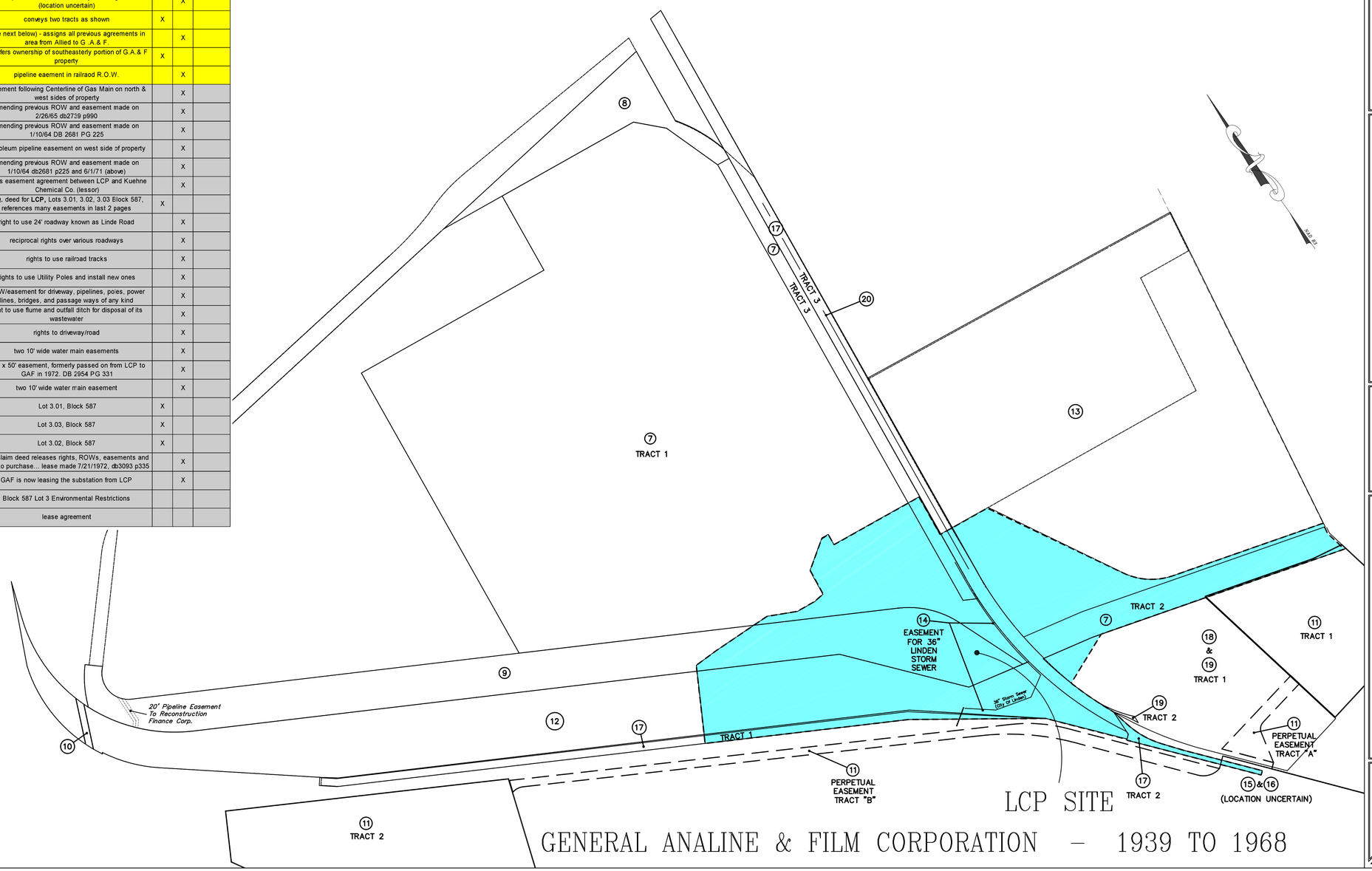
CHRONOLOGICAL DEED PLOTTING
FOR
LCP Chemicals & Plastics, Inc.
TAX BLOCK 587
CITY OF LINDEN, UNION COUNTY, NEW JERSEY

SHEET No. 2 OF 6

R2-0003606

TABLE OF DOCUMENTS SUPPLIED

No.	Date	Book	Page	Grantee	Grantor	Description	Property	Easement	
1	7/27/1909	533	233	Borcugh of Linden	Grasselli Chemical Company	trunk sewer line through property to Staten Island Sound		X	
2	9/27/1909	533	589	Borcugh of Linden	Tremley Point Corporation	Trunk Sewer line through property		X	
3	2/28/1912	588	499	Borcugh of Linden	Edward F. Robinson	Trunk Sewer line through property		X	
4	10/20/1928	1165	576	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
5	10/20/1928	1165	582	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
6	11/30/1928	1162	250	E.I. duPont de Nemours and Company	The Grasselli Chemical Company	conveys lands not previously conveyed to Grasselli Dystuff Corp. (exceptions to Tract 5)	X		
7	10/31/1939	1391	302	General Aniline & Film Corporation	General Aniline & Film Corporation	consolidates and renames General Aniline Works And American I.G. Chemicals into General Aniline & Film	X		
8	5/5/1942	1458	210	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
9	9/15/1949	1776	7	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
10	7/7/1950	1847	79	duPont de Nemours	Central Railroad Company of New Jersey	irrevocable license to keep, maintain and use a private access road across railroad property		X	
11	4/18/1951	1898	168	Linden Roselle Sewerage Authority	Sinclair Refining Company	Block 587, Lots 5 & 21	X		
12	1/27/1958	2356	634	General Aniline & Film Corporation	Central Railroad Company of New Jersey	copy not included. believed to convey the railroad property highighted	X		
13	7/9/1963	2648	319	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	Block 587, Lots 2.01, 2.02	X		
14	1/10/1964	2681	229	City of Linden	General Aniline & Film Corporation	easement for 36" Lindsn storm sewer		X	
15	11/19/1965	2771	858	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to maintain and use pipeline bridge and pipelines crossing railroad (location uncertain)		X	
16	11/19/1965	2771	862	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to use raodway crossing railroad (location uncertain)		X	
17	1/19/1967	2794	745	General Aniline & Film Corporation	The Central Railroad Company of New Jersey	conveys two tracts as shown	X		
18	5/15/1967	2802	839	General Aniline & Film Corporation	Allied Chemical Corporation	(see next below) - assigns all previous agreements in area from Allied to G .A.& F.		X	
19	5/15/1967	2802	536	General Aniline & Film Corporation	Allied Chemical Corporation	transfers ownership of southeasterly portion of G.A.& F property	X		
20	11/3/1967	2821	929	Union Carbide Corporation	General Aniline & Film Corporation	pipeline eaement in railraod R.O.W.		X	
21	8/20/1970	2909	697	Elizabethtown Gas Company	GAF Corporation	easement following Centerline of Gas Main on north & west sides of property		X	
22	2/24/1971	2917	226	Elizabethtown Water Company	GAF Corporation	amending previous ROW and easement made on 2/26/65 db2739 p990		X	
23	6/1/1971	2924	209	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 DB 2681 PG 225		X	
24	8/12/1971	2928	677	Buckeye Pipe Line Company	GAF Corporation	petroleum pipeline easement on west side of property		X	
25	4/17/1972	2946	162	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 db2681 p225 and 6/1/71 (above)		X	
26	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products, Inc.	cross easement agreement between LCP and Kuehne Chemical Co. (lessor)		X	
27	8/24/1972	2954	273	Linden Chlorine Products	GAF Corporation	**P.Q.** deed for **LCP**, Lots 3.01, 3.02, 3.03 Block 587, references many easements in last 2 pages	X		
28	8/24/1972	2954	284	Linden Chlorine Products	GAF Corporation	right to use 24' roadway known as Linde Road		X	
29	8/24/1972	2954	296	Linden Chlorine Products	GAF Corporation	reciprocal rights over various roadways		X	
30	8/24/1972	2954	312	Linden Chlorine Products	GAF Corporation	rights to use railroad tracks		X	
31	8/24/1972	2954	323	Linden Chlorine Products	GAF Corporation	rights to use Utility Poles and install new ones		X	
32	8/24/1972	2954	331	GAF Corporation	Linden Chlorine Products	ROW/easement for driveway, pipelines, poles, power lines, bridges, and passage ways of any kind		X	
33	8/24/1972	2954	340	GAF Corporation	Linden Chlorine Products	right to use flume and outfall ditch for disposal of its wastewater		X	
34	1/17/1974	2995	280	Northvile Linden Terminal Corp.	GAF Corporation	rights to driveway/road		X	
35	5/8/1975	3033	986	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easements		X	
36	5/22/1975	3034	974	Northvile Linden Terminal Corp.	GAF Corporation	120' x 50' easement, formerly passed on from LCP to GAF in 1972. DB 2954 PG 331		X	
37	3/5/1976	3061	4	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easement		X	
38	12/14/1979	3207	82	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.01, Block 587	X		
39	12/14/1979	3207	93	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.03, Block 587	X		
40	12/14/1979	3207	97	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.02, Block 587	X		
41	8/11/1983	3331	219	Linden Chlorine Products	Kuehne Chemical Company	quit-claim deed releases rights, ROWs, easements and right to purchase... lease made 7/21/1972, db3093 p335		X	
42	9/17/1986	3499	97	GAF Corporation	Linden Chlorine Products	GAF is now leasing the substation from LCP		X	
43	9/23/1994	4228	125		Linden Chlorine Products	Block 587 Lot 3 Environmental Restrictions			
44	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products	lease agreement			



REVISIONS
6
5
4
3
2
1

DATE: 4/23/08 SCALE: 1"=200' FLD. BK.:
PROJ.: 2001202 CHKD.: PAGE:

0 100 200 400 800

Keller & Kirkpatrick
Certificate of Authorization #24GA28037400
301 Gibraltar Drive, Suite 2A, Morris Plains, NJ. 07950 973-377-8500
CONSULTING ENGINEERS
LAND SURVEYORS
LANDSCAPE ARCHITECTS
PLANNERS
WERNER A. MALL, Professional Land Surveyor, Lic. 37201
GEORGE P. JAMES, Professional Engineer, Lic. 22934

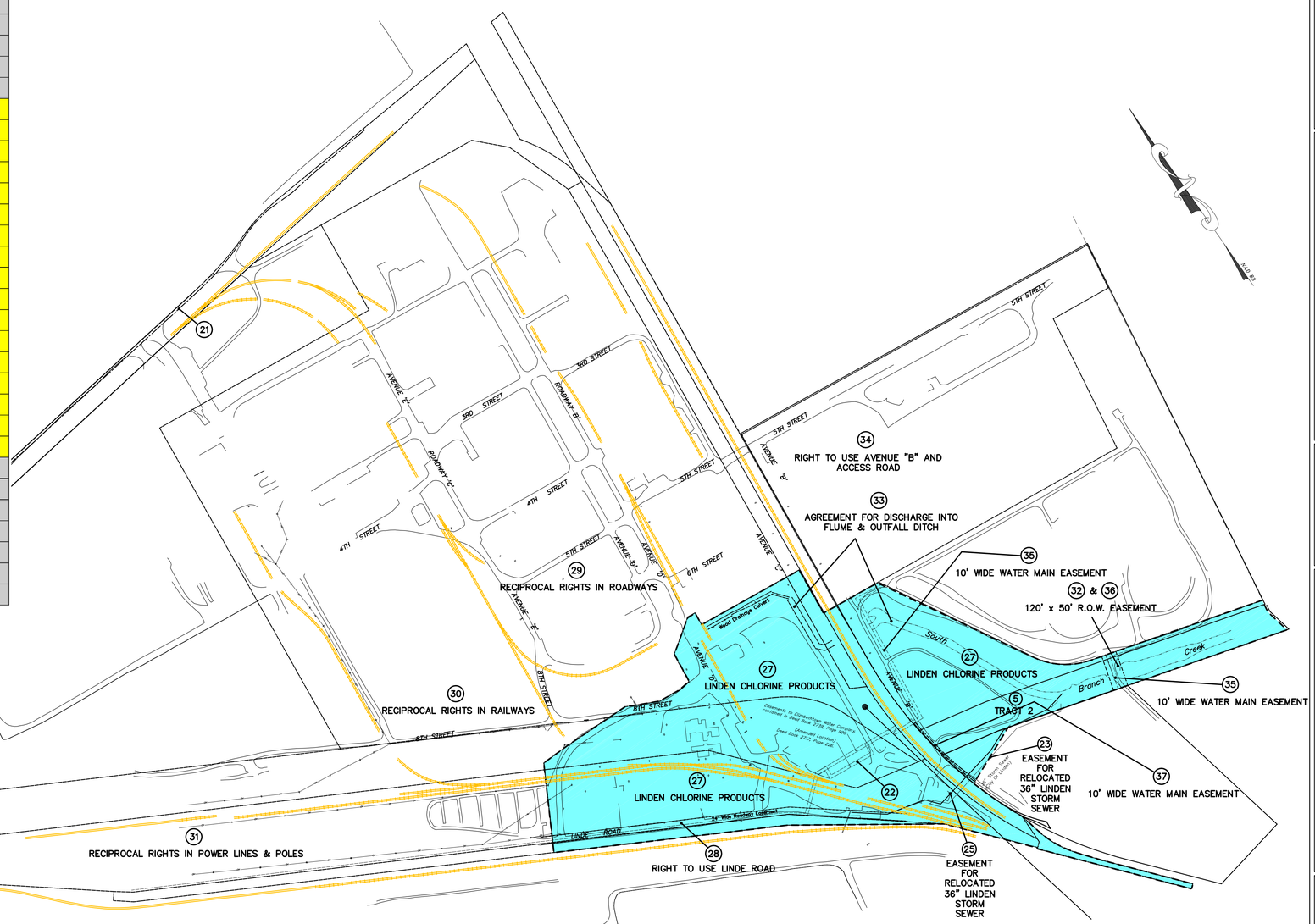
CHRONOLOGICAL DEED PLOTTING
FOR
LCP Chemicals & Plastics, Inc.
TAX BLOCK 587
CITY OF LINDEN, UNION COUNTY, NEW JERSEY

SHEET No. 3 OF 6

R2-0003607

TABLE OF DOCUMENTS SUPPLIED

No.	Date	Book	Page	Grantee	Grantor	Description	Property	Easement	
1	7/27/1909	533	233	Borough of Linden	Grasselli Chemical Company	trunk sewer line through property to Staten Island Sound		X	
2	9/27/1909	533	589	Borough of Linden	Tremley Point Corporation	Trunk Sewer line through property		X	
3	2/28/1912	588	499	Borough of Linden	Edward F. Robinson	Trunk Sewer line through property		X	
4	10/20/1928	1165	576	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
5	10/20/1928	1165	582	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
6	11/30/1928	1162	250	E.I. duPont de Nemours and Company	The Grasselli Chemical Company	conveys lands not previously conveyed to Grasselli Dystuff Corp. (exceptions to Tract 5)	X		
7	10/31/1939	1391	302	General Aniline & Film Corporation	General Aniline & Film Corporation	consolidates and renames General Aniline Works And American I.G. Chemicals into General Aniline & Film	X		
8	5/5/1942	1458	210	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
9	9/15/1949	1776	7	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
10	7/7/1950	1847	79	duPont de Nemours	Central Railroad Company of New Jersey	irrevocable license to keep, maintain and use a private access road across railroad property		X	
11	4/18/1951	1898	168	Linden Roselle Sewerage Authority	Sinclair Refining Company	Block 587, Lots 5 & 21	X		
12	1/27/1958	2356	634	General Aniline & Film Corporation	Central Railroad Company of New Jersey	copy not included. believed to convey the railroad property highlighted	X		
13	7/9/1963	2648	319	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	Block 587, Lots 2.01, 2.02	X		
14	1/10/1964	2681	229	City of Linden	General Aniline & Film Corporation	easement for 36" Linden storm sewer		X	
15	11/19/1965	2771	858	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to maintain and use pipeline bridge and pipelines crossing railroad (location uncertain)		X	
16	11/19/1965	2771	862	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to use raodway crossing railroad (location uncertain)		X	
17	1/19/1967	2794	745	General Aniline & Film Corporation	The Central Railroad Company of New Jersey	conveys two tracts as shown	X		
18	5/15/1967	2802	839	General Aniline & Film Corporation	Allied Chemical Corporation	(see next below) - assigns all previous agreements in area from Allied to G .A.& F.		X	
19	5/15/1967	2802	536	General Aniline & Film Corporation	Allied Chemical Corporation	transfers ownership of southeasterly portion of G.A.& F property	X		
20	11/3/1967	2821	929	Union Carbide Corporation	General Aniline & Film Corporation	pipeline eaement in railraod R.O.W.		X	
21	8/20/1970	2909	697	Elizabethtown Gas Company	GAF Corporation	easement following Centerline of Gas Main on north & west sides of property		X	
22	2/24/1971	2917	226	Elizabethtown Water Company	GAF Corporation	amending previous ROW and easement made on 2/26/65 db2739 p590		X	
23	6/1/1971	2924	209	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 DB 2681 PG 225		X	
24	8/12/1971	2928	677	Buckeye Pipe Lins Company	GAF Corporation	petroleum pipeline easement on west side of property		X	
25	4/17/1972	2946	162	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 db2681 p225 and 6/1/71 (above)		X	
26	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products, Inc.	cross easement agreement between LCP and Kuehne Chemical Co. (lessor)		X	
27	8/24/1972	2954	273	Linden Chlorine Products	GAF Corporation	**P.Q.** deed for **LCP**, Lots 3.01, 3.02, 3.03 Block 587, references many easements in last 2 pages	X		
28	8/24/1972	2954	284	Linden Chlorine Products	GAF Corporation	right to use 24' roadway known as Linde Road		X	
29	8/24/1972	2954	296	Linden Chlorine Products	GAF Corporation	reciprocal rights over various roadways		X	
30	8/24/1972	2954	312	Linden Chlorine Products	GAF Corporation	rights to use railroad tracks		X	
31	8/24/1972	2954	323	Linden Chlorine Products	GAF Corporation	rights to use Utility Poles and install new ones		X	
32	8/24/1972	2954	331	GAF Corporation	Linden Chlorine Products	ROW/easement for driveway, pipelines, poles, power lines, bridges, and passage ways of any kind		X	
33	8/24/1972	2954	340	GAF Corporation	Linden Chlorine Products	right to use flume and outfall ditch for disposal of its wastewater		X	
34	1/17/1974	2995	280	Northvile Linden Terminal Corp.	GAF Corporation	rights to driveway/road		X	
35	5/8/1975	3033	986	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easements		X	
36	5/22/1975	3034	974	Northvile Linden Terminal Corp.	GAF Corporation	120' x 50' easement, formerly passed on from LCP to GAF in 1972. DB 2954 PG 331		X	
37	3/5/1976	3061	4	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easement		X	
38	12/14/1979	3207	82	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.01, Block 587	X		
39	12/14/1979	3207	93	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.03, Block 587	X		
40	12/14/1979	3207	97	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.02, Block 587	X		
41	8/11/1983	3331	219	Linden Chlorine Products	Kuehne Chemical Company	quit-claim deed releases rights, ROWs, easements and right to purchase... lease made 7/21/1972, db3093 p335		X	
42	9/17/1986	3499	97	GAF Corporation	Linden Chlorine Products	GAF is now leasing the substation from LCP		X	
43	9/23/1994	4228	125		Linden Chlorine Products	Block 587 Lot 3 Environmental Restrictions			
44	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products	lease agreement			



GAF CORPORATION – 1968–1978

LCP SITE

REVISIONS	
6	
5	
4	
3	
2	
1	

DATE: 4/23/08 SCALE: 1"=200' FLD. BK.:
PROJ.: 2001202 CHKD.: PAGE:

0 100 200 400 800

Keller & Kirkpatrick
Certificate of Authorization #24GA28037400
301 Gibraltar Drive, Suite 2A, Morris Plains, NJ. 07950 973-377-8500
CONSULTING ENGINEERS
LAND SURVEYORS
LANDSCAPE ARCHITECTS
PLANNERS
WERNER A. MALL, Professional Land Surveyor, Lic. 37201
GEORGE P. JAMES, Professional Engineer, Lic. 22934

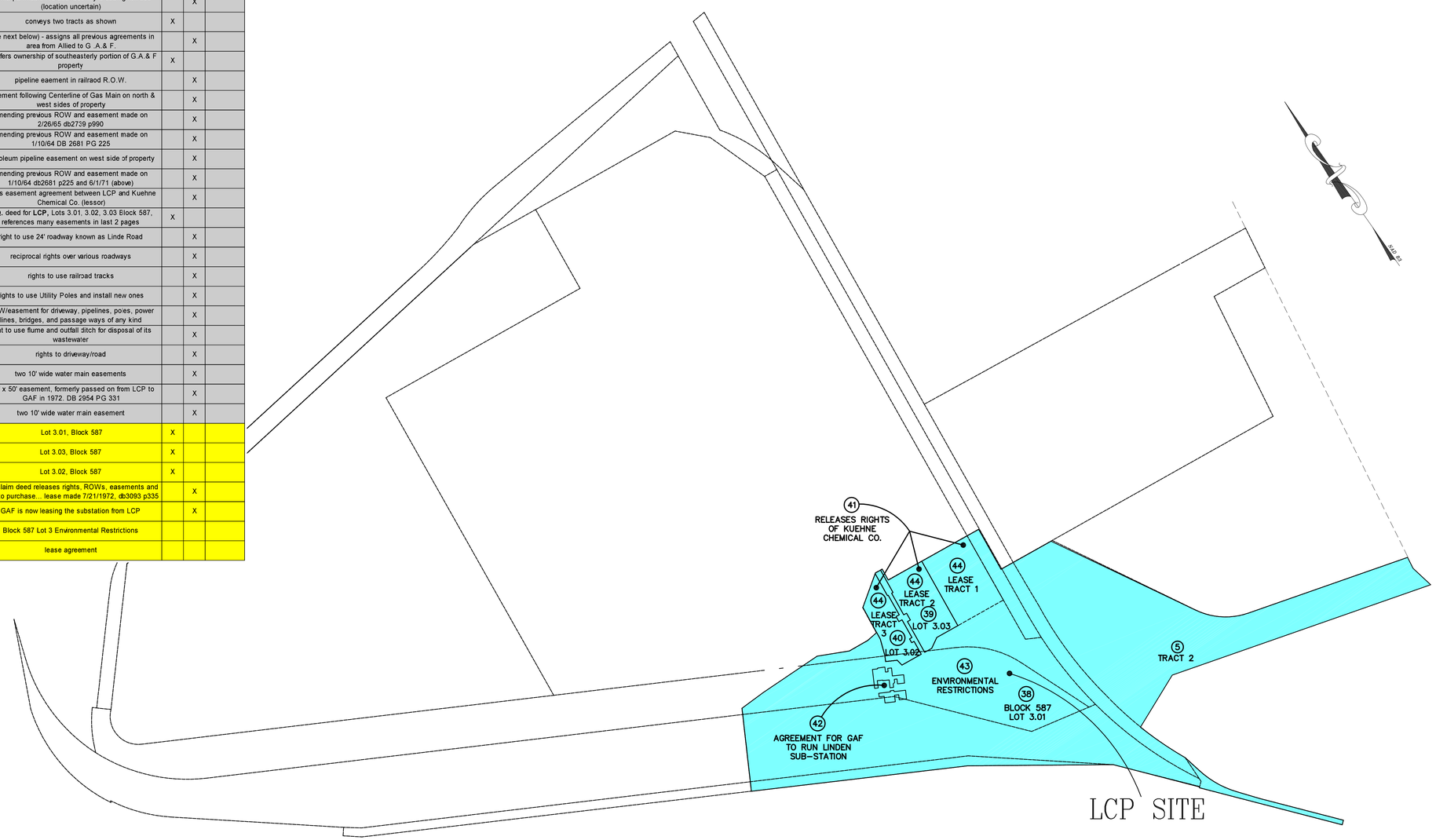
CHRONOLOGICAL DEED PLOTTING
FOR
LCP Chemicals & Plastics, Inc.
TAX BLOCK 587
CITY OF LINDEN, UNION COUNTY, NEW JERSEY

SHEET No. 4 OF 6

R2-0003608

TABLE OF DOCUMENTS SUPPLIED

No.	Date	Book	Page	Grantee	Grantor	Description	Property	Easement	
1	7/27/1909	533	233	Borcugh of Linden	Grasselli Chemical Company	trunk sewer line through property to Staten Island Sound		X	
2	9/27/1909	533	589	Borcugh of Linden	Tremley Point Corporation	Trunk Sewer line through property		X	
3	2/28/1912	588	499	Borcugh of Linden	Edward F. Robinson	Trunk Sewer line through property		X	
4	10/20/1928	1165	576	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
5	10/20/1928	1165	582	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
6	11/30/1928	1162	250	E.I. duPont de Nemours and Company	The Grasselli Chemical Company	conveys lands not previously conveyed to Grasselli Dystuff Corp. (exceptions to Tract 5)	X		
7	10/31/1939	1391	302	General Aniline & Film Corporation	General Aniline & Film Corporation	consolidates and renames General Aniline Works And American I.G. Chemicals into General Aniline & Film	X		
8	5/5/1942	1458	210	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
9	9/15/1949	1776	7	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
10	7/7/1950	1847	79	duPont de Nemours	Central Railroad Company of New Jersey	irrevocable license to keep, maintain and use a private access road across railroad property		X	
11	4/18/1951	1898	168	Linden Roselle Sewerage Authority	Sinclair Refining Company	Block 587, Lots 5 & 21	X		
12	1/27/1958	2356	634	General Aniline & Film Corporation	Central Railroad Company of New Jersey	copy not included. believed to convey the railroad property highighted	X		
13	7/9/1963	2648	319	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	Block 587, Lots 2.01, 2.02	X		
14	1/10/1964	2681	229	City of Linden	General Aniline & Film Corporation	easement for 36" Lindsn storm sewer		X	
15	11/19/1965	2771	858	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to maintain and use pipeline bridge and pipelines crossing railroad (location uncertain)		X	
16	11/19/1965	2771	862	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to use raodway crossing railroad (location uncertain)		X	
17	1/19/1967	2794	745	General Aniline & Film Corporation	The Central Railroad Company of New Jersey	conveys two tracts as shown	X		
18	5/15/1967	2802	839	General Aniline & Film Corporation	Allied Chemical Corporation	(see next below) - assigns all previous agreements in area from Allied to G .A.& F.		X	
19	5/15/1967	2802	536	General Aniline & Film Corporation	Allied Chemical Corporation	transfers ownership of southeasterly portion of G.A.& F property	X		
20	11/3/1967	2821	929	Union Carbide Corporation	General Aniline & Film Corporation	pipeline eaement in railraod R.O.W.		X	
21	8/20/1970	2909	697	Elizabethtown Gas Company	GAF Corporation	easement following Centerline of Gas Main on north & west sides of property		X	
22	2/24/1971	2917	226	Elizabethtown Water Company	GAF Corporation	amending previous ROW and easement made on 2/26/65 db2739 p590		X	
23	6/1/1971	2924	209	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 DB 2681 PG 225		X	
24	8/12/1971	2928	677	Buckeye Pipe Line Company	GAF Corporation	petroleum pipeline easement on west side of property		X	
25	4/17/1972	2946	162	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 db2681 p225 and 6/1/71 (above)		X	
26	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products, Inc.	cross easement agreement between LCP and Kuehne Chemical Co. (lessor)		X	
27	8/24/1972	2954	273	Linden Chlorine Products	GAF Corporation	**P.Q.** deed for **LCP**, Lots 3.01, 3.02, 3.03 Block 587, references many easements in last 2 pages	X		
28	8/24/1972	2954	284	Linden Chlorine Products	GAF Corporation	right to use 24' roadway known as Linde Road		X	
29	8/24/1972	2954	296	Linden Chlorine Products	GAF Corporation	reciprocal rights over various roadways		X	
30	8/24/1972	2954	312	Linden Chlorine Products	GAF Corporation	rights to use railroad tracks		X	
31	8/24/1972	2954	323	Linden Chlorine Products	GAF Corporation	rights to use Utility Poles and install new ones		X	
32	8/24/1972	2954	331	GAF Corporation	Linden Chlorine Products	ROW/easement for driveway, pipelines, poes, power lines, bridges, and passage ways of any kind		X	
33	8/24/1972	2954	340	GAF Corporation	Linden Chlorine Products	right to use flume and outfall ditch for disposal of its wastewater		X	
34	1/17/1974	2995	280	Northvile Linden Terminal Corp.	GAF Corporation	rights to driveway/road		X	
35	5/8/1975	3033	986	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easements		X	
36	5/22/1975	3034	974	Northvile Linden Terminal Corp.	GAF Corporation	120' x 50' easement, formerly passed on from LCP to GAF in 1972. DB 2954 PG 331		X	
37	3/5/1976	3061	4	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easement		X	
38	12/14/1979	3207	82	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.01, Block 587	X		
39	12/14/1979	3207	93	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.03, Block 587	X		
40	12/14/1979	3207	97	LCP Chemicals--New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.02, Block 587	X		
41	8/11/1983	3331	219	Linden Chlorine Products	Kuehne Chemical Company	quit-claim deed releases rights, ROWs, easements and right to purchase... lease made 7/21/1972, db3093 p335		X	
42	9/17/1986	3499	97	GAF Corporation	Linden Chlorine Products	GAF is now leasing the substation from LCP		X	
43	9/23/1994	4228	125		Linden Chlorine Products	Block 587 Lot 3 Environmental Restrictions			
44	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products	lease agreement			



LCP CHEMICALS – NEW JERSEY, INC – 1979 TO 1994 & KUEHNE LEASE – 1972

REVISIONS	
6	
5	
4	
3	
2	
1	

DATE: 4/23/08 SCALE: 1"=200' FLD. BK.:
PROJ.: 2001202 CHKD.: PAGE:

0 100 200 400 800

Keller & Kirkpatrick Certificate of Authorization #24GA28037400
301 Gibraltar Drive, Suite 2A, Morris Plains, NJ. 07950 973-377-8500
CONSULTING ENGINEERS
LAND SURVEYORS
LANDSCAPE ARCHITECTS
PLANNERS
WERNER A. MALL, Professional Land Surveyor, Lic. 37201
GEORGE P. JAMES, Professional Engineer, Lic. 22934

CHRONOLOGICAL DEED PLOTTING
FOR
LCP Chemicals & Plastics, Inc.
TAX BLOCK 587
CITY OF LINDEN, UNION COUNTY, NEW JERSEY

SHEET No. 5 OF 6

R2-0003609

TABLE OF DOCUMENTS SUPPLIED

No.	Date	Book	Page	Grantee	Grantor	Description	Property	Easement	
1	7/27/1909	533	233	Borough of Linden	Grasselli Chemical Company	trunk sewer line through property to Staten Island Sound		X	
2	9/27/1909	533	589	Borough of Linden	Tremley Point Corporation	Trunk Sewer line through property		X	
3	2/28/1912	588	499	Borough of Linden	Edward F. Robinson	Trunk Sewer line through property		X	
4	10/20/1928	1165	576	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
5	10/20/1928	1165	582	Grasselli Dyestuff Corporation	The Grasselli Chemical Company	conveys two tracts as shown	X		
6	11/30/1928	1162	250	E.I. duPont de Nemours and Company	The Grasselli Chemical Company	conveys lands not previously conveyed to Grasselli Dystuff Corp. (exceptions to Tract 5)	X		
7	10/31/1939	1391	302	General Aniline & Film Corporation	General Aniline & Film Corporation	consolidates and renames General Aniline Works And American I.G. Chemicals into General Aniline & Film	X		
8	5/5/1942	1458	210	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
9	9/15/1949	1776	7	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	additional acquisition from DuPont	X		
10	7/7/1950	1847	79	duPont de Nemours	Central Railroad Company of New Jersey	irrevocable license to keep, maintain and use a private access road across railroad property		X	
11	4/18/1951	1898	168	Linden Roselle Sewerage Authority	Sinclair Refining Company	Block 587, Lots 5 & 21	X		
12	1/27/1958	2356	634	General Aniline & Film Corporation	Central Railroad Company of New Jersey	copy not included. believed to convey the railroad property highlighted	X		
13	7/9/1963	2648	319	General Aniline & Film Corporation	E.I. duPont de Nemours and Company	Block 587, Lots 2.01, 2.02	X		
14	1/10/1964	2681	229	City of Linden	General Aniline & Film Corporation	easement for 36" Linden storm sewer		X	
15	11/19/1965	2771	858	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to maintain and use pipeline bridge and pipelines crossing railroad (location uncertain)		X	
16	11/19/1965	2771	862	Allied Chemical Corporation	Central Railroad Company of New Jersey	grants permission to use raodway crossing railroad (location uncertain)		X	
17	1/19/1967	2794	745	General Aniline & Film Corporation	The Central Railroad Company of New Jersey	conveys two tracts as shown	X		
18	5/15/1967	2802	839	General Aniline & Film Corporation	Allied Chemical Corporation	(see next below) - assigns all previous agreements in area from Allied to G .A.& F.		X	
19	5/15/1967	2802	536	General Aniline & Film Corporation	Allied Chemical Corporation	transfers ownership of southeasterly portion of G.A.& F property	X		
20	11/3/1967	2821	929	Union Carbide Corporation	General Aniline & Film Corporation	pipeline eaement in railraod R.O.W.		X	
21	8/20/1970	2909	697	Elizabethtown Gas Company	GAF Corporation	easement following Centerline of Gas Main on north & west sides of property		X	
22	2/24/1971	2917	226	Elizabethtown Water Company	GAF Corporation	amending previous ROW and easement made on 2/26/65 db2739 p590		X	
23	6/1/1971	2924	209	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 DB 2681 PG 225		X	
24	8/12/1971	2928	677	Buckeye Pipe Line Company	GAF Corporation	petroleum pipeline easement on west side of property		X	
25	4/17/1972	2946	162	City of Linden	GAF Corporation	amending previous ROW and easement made on 1/10/64 db2681 p225 and 6/1/71 (above)		X	
26	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products, Inc.	cross easement agreement between LCP and Kuehne Chemical Co. (lessor)		X	
27	8/24/1972	2954	273	Linden Chlorine Products	GAF Corporation	**P.Q.** deed for **LCP**, Lots 3.01, 3.02, 3.03 Block 587, references many easements in last 2 pages	X		
28	8/24/1972	2954	284	Linden Chlorine Products	GAF Corporation	right to use 24' roadway known as Linde Road		X	
29	8/24/1972	2954	296	Linden Chlorine Products	GAF Corporation	reciprocal rights over various roadways		X	
30	8/24/1972	2954	312	Linden Chlorine Products	GAF Corporation	rights to use railroad tracks		X	
31	8/24/1972	2954	323	Linden Chlorine Products	GAF Corporation	rights to use Utility Poles and install new ones		X	
32	8/24/1972	2954	331	GAF Corporation	Linden Chlorine Products	ROW/easement for driveway, pipelines, poles, power lines, bridges, and passage ways of any kind		X	
33	8/24/1972	2954	340	GAF Corporation	Linden Chlorine Products	right to use flume and outfall ditch for disposal of its wastewater		X	
34	1/17/1974	2995	280	Northvile Linden Terminal Corp.	GAF Corporation	rights to driveway/road		X	
35	5/8/1975	3033	986	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easements		X	
36	5/22/1975	3034	974	Northvile Linden Terminal Corp.	GAF Corporation	120' x 50' easement, formerly passed on from LCP to GAF in 1972. DB 2954 PG 331		X	
37	3/5/1976	3061	4	Elizabethtown Water Company	Linden Chlorine Products	two 10' wide water main easement		X	
38	12/14/1979	3207	82	LCP Chemicals–New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.01, Block 587	X		
39	12/14/1979	3207	93	LCP Chemicals–New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.03, Block 587	X		
40	12/14/1979	3207	97	LCP Chemicals–New Jersey, Inc.	LCP Chemicals & Plastics, Inc	Lot 3.02, Block 587	X		
41	8/11/1983	3331	219	Linden Chlorine Products	Kuehne Chemical Company	quit-claim deed releases rights, ROWs, easements and right to purchase... lease made 7/21/1972, db3093 p335		X	
42	9/17/1986	3499	97	GAF Corporation	Linden Chlorine Products	GAF is now leasing the substation from LCP		X	
43	9/23/1994	4228	125		Linden Chlorine Products	Block 587 Lot 3 Environmental Restrictions			
44	7/21/1972	3093	335	Kuehne Chemical Company, Inc.	Linden Chlorine Products	lease agreement			

COLOR CHART

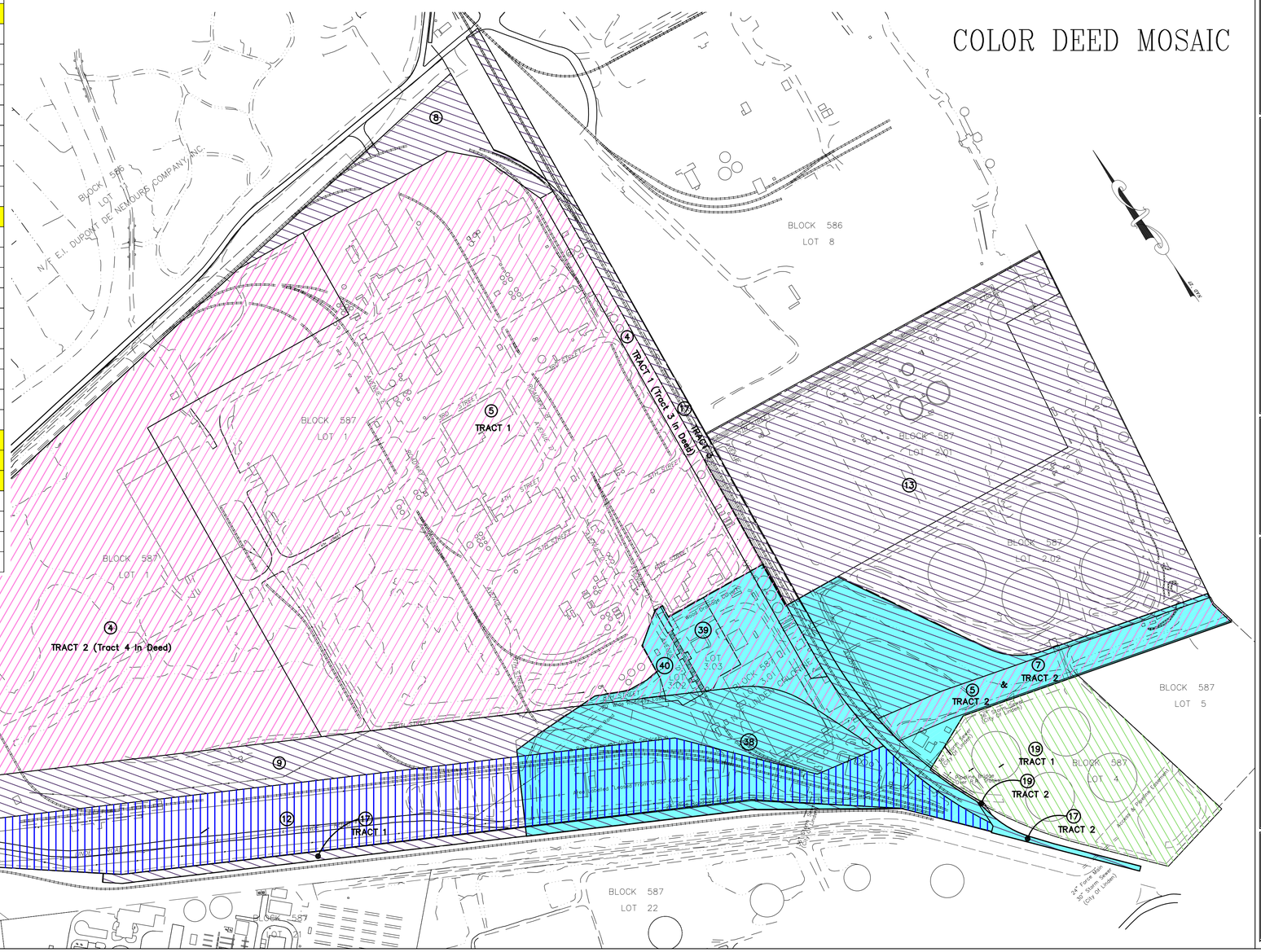
- GRASSELLI CHEMICAL COMPANY TO GRASSELLI DYESTUFF CORPORATION – PRIOR TO 1928 (4) & (5)
- TRANSFERRED FROM E.I. DUPONT DE NEMOURS & CO. TO GENERAL ANILINE & FILM CORPORATION – 1940–1963 (8) (9) & (13)
- TRANSFERRED FROM CENTRAL RILROAD CO. OF N.J. TO GENERAL ANILINE & FILM COROPORATION – 1958 (12)
- TRANSFERRED FROM ALLIED CHEMICAL CORP. TO G A F CORPORATION – 1967 (19)
- CONVEYED BY GAF CORPORATION TO LINDEN CHLORINE PRODUCTS – 1972 (27) & CONVEYED BY LINDEN CHLORINE PRODUCTS TO L C P CHEMICALS–NEW JERSEY, INC. – 1979 (38) (39) & (40)

CORPORATE NAME CHANGES

GRASSELLI DYESTUFF CORPORATION WAS INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE. ON FEBRUARY 27, 1929, IT CHANGED ITS NAME TO GENERAL ANILINE WORKS, INC. ON OCTOBER 30, 1939, IT BECAME KNOWN AS GENERAL ANILINE & FILM CORPORATION. ON OCTOBER 31, 1939, IT MERGED INTO AMERICAN I.G. CHEMICAL CORPORATION. ON APRIL 24, 1968, IT CHANGED ITS NAME TO GAF CORPORATION. ON AUGUST 24, 1972, GAF CONVEYED PROPERTY TO LINDEN CHLORINE PRODUCTS, INC. ON DECEMBER 14, 1979, LCP CHEMICALS & PLASTICS, INC. CONVEYED ITS PROPERTY TO LCP CHEMICALS–NEW JERSEY, INC.

NOTE: NOTE: SITE INTERIOR DETAILS SHOWN HEREON REPRESENT SITE CONDITIONS AS OF THE AERIAL SURVEY PERFORMED ON 4/05/02 AND DO NOT REFLECT PRESENT SITE CONDITIONS.

COLOR DEED MOSAIC



REVISIONS: 6 5 4 3 2 1

DATE: 4/23/08 SCALE: 1"=200' FLD. BK.:
PROJ.: 2001202 CHKD.: PAGE:

0 100 200 400 800

Keller & Kirkpatrick Certificate of Authorization #24GA28037400
301 Gibraltar Drive, Suite 2A, Morris Plains, NJ. 07950 973-377-8500
CONSULTING ENGINEERS
LAND SURVEYORS
LANDSCAPE ARCHITECTS
PLANNERS
WERNER A. MALL, Professional Land Surveyor, Lic. 37201
GEORGE P. JAMES, Professional Engineer, Lic. 22534

CHRONOLOGICAL DEED PLOTTING
FOR
LCP Chemicals & Plastics, Inc.
TAX BLOCK 587
CITY OF LINDEN, UNION COUNTY, NEW JERSEY

SHEET No. 6 OF 6

R2-0003610

Appendix B: Field Operations Plan

FIELD OPERATIONS PLAN
FIELD PROCEDURES
LCP CHEMICALS SUPERFUND SITE
LINDEN, NEW JERSEY

Prepared for

ISP Environmental Services Inc., Wayne, New Jersey

August 2008

FIELD OPERATIONS PLAN
FIELD PROCEDURES
LCP CHEMICALS SUPERFUND SITE
LINDEN, NEW JERSEY

Prepared for

ISP Environmental Services Inc.

1361 Alps Road

Wayne, New Jersey 07470

August 2008

Project Number: 135451.103

BROWN AND CALDWELL

110 Commerce Drive

Allendale, New Jersey 07401

TABLE OF CONTENTS

LIST OF FIGURES....III

1. INTRODUCTION....1-1

2. FIELD PROCEDURES....2-1
- 2.1 Reconnaissance and Site Preparation Activities....2-1
  - 2.1.1 Site Reconnaissance....2-1
  - 2.1.2 Development of Site Facilities....2-2
  - 2.1.3 Subsurface Utility Locations....2-2
  - 2.1.4 Identification of Sampling Locations Before Sampling....2-3
- 2.2 Soil Investigation Procedures....2-3
  - 2.2.1 Collection of Surface Soil Samples....2-3
  - 2.2.2 Collection of Subsurface Soil Samples from Soil Borings....2-3
  - 2.2.3 Soil Boring Procedures....2-4
  - 2.2.4 Logging of Soil Borings....2-15
  - 2.2.5 Collection of Soil Samples for Analyses of Volatile Organic Compounds....2-17
  - 2.2.6 Field Screening of Soil Samples....2-18
  - 2.2.7 Borehole Sealing....2-20
- 2.3 Groundwater Investigation Procedures....2-21
  - 2.3.1 Monitoring Well Installation....2-21
  - 2.3.2 Well Development....2-23
  - 2.3.3 Groundwater Level Measurement....2-24
  - 2.3.4 Collection of Groundwater Samples....2-25
  - 2.3.5 Field Permeability Testing (Slug Tests)....2-33
  - 2.3.6 Tide Investigation....2-34
- 2.4 Surface Water and Sediment Investigations....2-35
- 2.5 Equipment Decontamination....2-37
  - 2.5.1 Large Equipment....2-37
  - 2.5.2 Soil Sampling Equipment....2-38
  - 2.5.3 Water Sampling Equipment....2-38
  - 2.5.4 Monitoring Well Riser and Screen....2-39
  - 2.5.5 Pumps and Lines....2-39
- 2.6 Investigation-Derived Waste Handling....2-39
  - 2.6.1 Investigation-Derived Waste....2-40
- 2.7 Surveying....2-40
- 2.8 Sample Handling....2-40
  - 2.8.1 Quality Control Samples....2-40
  - 2.8.2 Sample Container, Preservatives, and Holding Time Requirements....2-42
  - 2.8.3 Sample Designation and Labeling....2-42
  - 2.8.4 Field Sample Numbering....2-43

2.8.5 Sample Custody 2-43
2.8.6 Sample Packaging and Shipping 2-44
2.9 Field Measurements and Equipment Calibration 2-45
2.10 Field Documentation 2-46
2.10.1 Field Book and Field Logs 2-46
2.10.2 Photographic Documentation 2-48
2.11 Soil Vapor Sample Collection 2-48
2.11.1 Installation of Soil Vapor Probes 2-48
2.11.2 Collection of Soil Vapor Samples 2-49
2.12 Biota Sampling 2-50
2.12.1 Sampling Timeline 2-50
2.12.2 Sample Locations 2-50
2.12.3 Mummichog Samples 2-50
2.12.4 Fiddler Crab Samples 2-51
2.12.5 Laboratory Analysis 2-52
2.12.6 Decontamination 2-52
2.12.7 Field Data Records 2-53
2.12.8 Permits 2-53

3. REFERENCES 3-1

LIST OF FIGURES

Figure 1 Typical Multiple-Cased Bedrock Well Installations

1. INTRODUCTION

The field methods utilized for the Remedial Investigation (RI) field investigation at the LCP Chemicals Inc., Superfund Site (LCP site) are described, herein in Section 2. Section 2 represents the consolidation of the following six (6) USEPA-approved documents:

1. "Final Sampling and Analysis Plan, Field Operations Plan, Part I, Draft Sampling and Analysis Plan", (URS, April 12, 2001).
2. "Addendum No. 1, Field Operations Plan for the LCP Chemicals, Inc. Superfund Site, Cased Deep Borings", (Brown and Caldwell, October 2001).
3. "Addendum No. 2, Field Operations Plan for the LCP Chemicals, Inc., Superfund Site, Subsurface Utility Clearance", (Brown and Caldwell, November, 2001).
4. "Addendum No. 3, Field Operations Plan for the LCP Chemicals, Inc. Superfund Site, Sampling Beneath Buildings 230 and 240", (Brown and Caldwell, March 2002).
5. "Addendum No. 4, Field Operations Plan, LCP Chemicals, Inc. Superfund Site (Bedrock Monitoring Wells, Soil Vapor Testing, Groundwater Sampling)", (Brown and Caldwell, April 2006, Revised October 2006).
6. "Addendum No. 5, Field Operations Plan for the LCP Chemicals, Inc. Superfund Site, Ecological Sampling", (Brown and Caldwell, August 2006, Revised October 2006).

The text in Section 2 is structured from the original URS (2001) document. However, various sections are inserted and/or superseded by the Brown and Caldwell FOP addenda which are noted, respectively. The tense of the text contained in the original document (generally future tense) has been retained in Section 2. However, it should be noted that tables and figures contained in the aforementioned documents that referred to proposed locations are not provided herein, as they are superseded by information provided in the RI report.

2. FIELD PROCEDURES

The methods and procedures used to conduct the field investigation will be in accordance with standard environmental practice and consistent with current USEPA and NJDEP guidelines and requirements. The investigation will be consistent with guidance contained in the following regulatory documents:

- USEPA Compendium of Superfund Field Operations Methods, 1987
- USEPA CERCLA Quality Assurance Manual, October 1989
- USEPA Low Stress Purging and Sampling Procedure, March 1998
- NJDEP Field Sampling Procedures Manual, 2005
- NJDEP Field Analysis Manual, July 1994
- NJDEP Alternative Ground Water Sampling Techniques Guide, July 1994 (if required)

Changes to the procedures and protocols described in this section may become necessary based on actual conditions encountered in the field. These changes have been accomplished through the inclusion of FOP addenda that were described in Section 1 and noted herein. The USEPA will be informed of major changes to the field program through Technical Memoranda or other forms of communication. Major deviations from the field procedures described below will be documented and a rationale supporting the change will be provided. Proposed modifications will not be implemented in the field without USEPA approval.

2.1 Reconnaissance and Site Preparation Activities

This section describes the activities that will be conducted before the field investigation.

2.1.1 Site Reconnaissance

A reconnaissance of the site was made before the RI to survey the site for potentially hazardous conditions (e.g., exposed waste, overhead obstructions, physical hazards, etc.). Based on the results of the reconnaissance, ISP Environmental Services Inc. developed a work scope to cleanup and remove potential structural and environmental hazards (e.g., presence of potential asbestos containing material, unsafe tank structures, etc.) through an Interim Removal Action (IRA). The IRA began in October 2000 in accordance with an USEPA approved work plan (URS, August 14, 2000). As part of the IRA, the integrity of the cap for the brine sludge lagoon was evaluated. Seven small areas (nominally 5 ft by 5 ft) required erosion control, which consisted of covering the affected area with top soil, seeding, and securing the area with a net. The results of the IRA will be submitted to the USEPA under separate cover.

A survey of South Branch Creek will also be conducted before the RI to determine general sampling accessibility and to perform a preliminary assessment of the ecological resources of the area. The general conditions of the site and surrounding areas will be documented and the information will be used to refine the general approach of the RI.

2.1.2 Development of Site Facilities

A storage, lay-down, and decontamination area will be established west of the main switch yard in the former employee parking lot at the west end of the site. This location has space for equipment, for a decontamination pad, and for drums or tanks of water that will be used to store decontamination and monitoring well development water.

2.1.3 Subsurface Utility Locations

Section 2.1.3 inserted from FOP Addendum No. 2 (Brown and Caldwell, November 2001) – Supersedes Previous Section

New Jersey "One-Call" System Notification

The drilling or excavation contractor will be responsible for contacting the New Jersey "One-Call" System prior to performing any subsurface drilling or excavation work by calling **1-800-272-1000**. The utility company mark outs provided by the "One-Call" service are required to address underground public utility lines (e.g., gas, water, electric, communications, etc.) regardless of whether or not they are on private property. The notification to "One-Call" must be made by the drilling or excavation contractor. This notification may not be made by other parties (e.g., consultant, property owner, government agency, etc.).

It is recognized that LCP Chemicals Inc. Superfund Site is difficult to locate and access. Therefore, special efforts must be made to confirm that the applicable utility companies have evaluated the presence of underground utility lines at the correct site and have performed the appropriate subsurface utility mark-outs, including the following:

- Provide explicit site location directions are provided to the "One-Call" service.
- Obtain a written confirmation from "One-Call" of the notification that includes the "Sequence Number" and a list of the utilities that have been notified.
- Independently determine that applicable utility companies have actually visited the site (e.g., through a review of guardhouse sign-in records, follow up phone conversations, etc.).
- Review the resultant mark-outs in comparison to known underground utility lines at the site.

Existing Site Documents

Previous site documents and utility maps (where available) will be reviewed to provide clearance for the sampling locations.

Supplemental Utility Clearance

Supplemental utility clearance will be performed in the vicinity of each drilling location in addition to the "One-Call" notifications, as described above. This supplemental clearance is required given the uncertainty of the previous mark-outs provided under the "One-Call" system and/or to locate other on site (non-public) utilities. The supplemental utility clearance will be performed with the use of an inductive pipe locator. Alternatively, a radio frequency pipe locator may be used, as applicable. As an additional safety precaution, drilling and excavation activities within the potential utility window (to a depth of approximately eight feet) will proceed at a slower pace to further reduce risk to subsurface utilities.

2.1.4 Identification of Sampling Locations Before Sampling

The RI/FS sampling points will be measured out in the field relative to building corners or other permanent structures using tape measurements. The sampling points will be established in the field using stakes, flags, surveyors paint, or similar methods before the sampling event. The sampling points will be marked clearly and staked securely until such time that the locations are either surveyed or recorded onto a scaled map of the site.

2.2 Soil Investigation Procedures

This section describes the procedures that will be followed when conducting the investigation of soil at the site. Since the subsurface conditions at the site are relatively unknown different drilling methods are described below so that procedures are in place as a contingency.

2.2.1 Collection of Surface Soil Samples

Before collecting a surface soil sample (0-6 inches below the ground surface or 0-12 inches below the ground surface for ecological risk assessment data) the sample location will be carefully cleared by removing any grass layers, surface debris, or upper one centimeter of soil surface, as applicable. In some areas of the site (e.g., the mercury cell buildings) a jackhammer or a concrete coring device will be needed to penetrate concrete pads or floor slabs to expose the ground surface. The soil samples will be collected using decontaminated stainless-steel scoops, hand augers, trowels, or equivalent tools.

The collection of surface samples for VOCs shall be conducted using an Encore™ Sampler in accordance with USEPA requirements. The sampling device is inserted into a freshly exposed soil surface (ground surface or soil core sampler). The 5-gram plug of soil is then capped and sent to the laboratory where it will be preserved, extracted and analyzed. Three Encore™ vials and one unpreserved 60 ml jar (for percent soil moisture measurement) of soil will be collected per sample location.

To satisfy the volume requirements of multiple bottle sets, surface soil samples (other than those collected for VOCs using the Encore™ sampler) will be homogenized either in situ or in a decontaminated stainless steel mixing bowl or tray before being transferred to bottles. A description of the soil data (e.g., soil description, location, time, etc.) will be recorded on a Surface Soil Description Log or the project field book.

2.2.2 Collection of Subsurface Soil Samples from Soil Borings

Soil samples for laboratory analysis will be collected from three general depth intervals. The sampling intervals will be 0.0 to 0.5 ft below the ground surface (bgs), 0.0 to 1.0 ft bgs, and between 1.0 ft bgs and the water table (estimated to be about 6 feet bgs). Surface soil samples collected from the 0.0 to 0.5 ft interval will provide data for the human health risk assessment and surface soil samples collected from the 0.0 to 1.0 ft interval will provide data for the ecological risk assessment. Subsurface soil samples collected from the 1.0 to 6.0 ft. interval will provide data to define the vertical extent of potential contamination in any given area. Each soil boring will be advanced through the fill to a minimum depth of the top of the water table. If native soils are not encountered at the water table, then the boring will be advanced until native soils are penetrated. The boring data will provide information on the thickness of the fill layer across the site.

In general, only one subsurface soil sample for organic analysis and one subsurface soil sample for inorganic analysis will be collected from each soil boring at the site because of the reportedly shallow depth to the water table.

Continuous split-spoon or direct-push samples will be collected from each soil boring. Upon retrieval of the soil sampling device, each sample shall be screened for organic vapors using a photoionization detector (PID) and for mercury using a mercury vapor analyzer (MVA). Calibrating procedures and instructions for using a PID and MVA are provided in Section 2.9.

For each sample interval, when screening results are above the background levels, a soil sample will be collected and temporarily archived for possible chemical analysis. With the exception of soil samples collected for VOC analysis, each sample collected will be stored in one or more "ziplock" bags. Archive samples for VOC analysis will be collected using the EnCore™ Sampler. Each sample will be labeled and stored appropriately on ice until all of the screening results are evaluation.

One organic and one inorganic archived sample from each soil boring will be submitted to the laboratory for analysis, based on the screening readings, discoloration, or odor. Archived samples selected for chemical analysis will be immediately transferred to the appropriate laboratory bottles and stored and handled according to procedures outlined in Section 2.8. The remaining archived samples will be handled in the same manner as the drill cuttings from each soil boring. If contamination is not evident from the field screening, soil samples will not be archived and the laboratory sample will be collected from just above the water table and submitted for analysis.

If analysis for volatile organic compounds is to be performed on a soil sample collected from a particular sampling depth, then the sample for VOC analysis will be collected before the other samples using the collection procedure described in Section 2.2.5 - Collection of Soil Samples for the Analysis of Volatile Organic Compounds. The remaining soil will be collected for the other analyses with a decontaminated stainless steel spoon or scoop (or equivalent sampling device), placed in a decontaminated stainless steel pan, and homogenized. The homogenized sample will then be placed in the appropriate sample bottles. In addition, soil samples will be observed for physical properties such as color, sorting, etc. This information will be recorded in a field boring log. Soil logging procedures are provided in Section 2.2.4. Sampling equipment shall be disposed of or decontaminated after the collection of each sample in accordance with the procedures outlined in Section 2.5.

Due to limited knowledge of site conditions, the default drilling method selected for the field investigation is hollow-stem auger drilling for each boring location where a monitoring well will be installed and at locations for deeper borings for stratigraphic investigation. Direct-push techniques will be used at the other boring locations unless conditions such as difficult drilling conditions warrant using hollow-stem auger drilling. In addition, portable drill rigs, such as tripod rigs, may be required to collect soil samples along the steep banks of South Branch Creek. The final decision to change drilling methods will be based on the drilling contractor's and environmental consultant's experience with concurrence by the USEPA.

2.2.3 Soil Boring Procedures

Soil borings will be advanced using either hollow-stem auger drilling methods, direct-push techniques or both, depending on the site logistics and the sampling objectives at a given area of concern. Soil samples will be collected from the borings using split-spoon samplers (auger rig) or macro-core samplers with dedicated acetate liners (direct-push rig). The project driller will be responsible for obtaining the required drilling permits for the RVFS investigation.

2.2.3.1 Hollow-Stem Auger Methods

Drilling with a hollow-stem auger is a standard method of subsurface drilling which allows the recovery of representative subsurface samples for identification and laboratory testing. Continuous 2-ft split-spoon samples will be collected from each soil boring. Samples from each spoon will be screened in the field using an HNU-model PI-101 PID and a Jerome 43 1-X MVA, or equivalent instruments. PID and MVA readings for each sample interval will be recorded on a field log. The samples that show the greatest signs of contamination (i.e., elevated PID or MVA readings, discoloration, odor, etc.) will be submitted for analyses. If contamination is not evident from the field screening, then the default sampling depth for soil samples submitted for laboratory analyses will be just above the water table.

When advancing borings using the hollow-stem auger drilling method, 41/4-inch inner diameter (ID) augers will be used. This will result in a borehole diameter that is greater than eight inches, or at least four inches larger than the outside diameter of the casing and well screen in the event that a two-inch diameter monitoring well is to be installed. These specifications are in accordance with NJDEP regulations for the installation of monitoring wells. The borings will be advanced by rotating the augers to the desired depth into the subsurface soils. The borings will be advanced incrementally to permit continuous soil sampling, as required. If heaving sands are encountered, clean potable water will be added to maintain a positive hydraulic head inside the auger.

The drilling rig will be set up and operated in accordance with standard drilling practices and in a manner that will promote the safe and efficient operation of the equipment. The project driller will be a certified test borer and New Jersey-licensed well driller. Safety considerations during equipment operation are addressed in the RIES HASP (Part III of the Field Operations Plan).

The equipment used in the drilling operations will be steam cleaned upon arrival at the site. The equipment and tools that come in contact with soil during drilling will be decontaminated before resampling, before moving to the next drilling location, or before leaving the project site. A source of water to be used for decontamination has not been identified yet, but will likely be water supplied by the City of Linden. The water source may include on-site faucets, the neighboring ISP site, or hydrants owned by the city of Linden. Documentation of the quality of clean potable water to be used for drilling will be submitted to the USEPA or a designated USEPA representative prior to use once a source is identified. Decontamination procedures are described in Section 2.5.

Subsurface soil samples will be continuously collected with a two-inch diameter split-spoon in accordance with American Society for Testing and Materials (ASTM) D-1586-99 methods. Specifically, the following steps will be followed during split-spoon sampling:

1. Measure the sampling equipment lengths and diameters to document that they conform to specifications.
2. Remove the center plug from the augers prior to sampling.
3. Lower the sampler to the bottom of the auger column and check the depth against length of the rods and the sampler to ensure the sampler has not penetrated below the augers under its own weight.
4. Attach the drive head sub and hammer to the drill rods without the weight resting on the rods.
5. Lower the weight and allow the sampler to settle up to 6 inches. If it settles more, consider use of another sampler.
6. Mark four 6-inch intervals on the drill rods relative to a drive reference point on the rig. With the sampler resting on the bottom of the hole, drive the sampler with the 140 lb hammer falling freely 30 inches until 24 inches have been penetrated or 100 blows applied.

7. Record the number of blows per 6 inches.
8. Remove the sampler from the augers, open it, and describe the soil according to the procedures described below. Record the length of the sample recovered.
9. The "N" value, if required for geotechnical purposes, can be calculated by adding the blows from the 6-12 inch and the 12-18 inch interval of each sample attempt.
10. Screen the sample with a PID and a MVA and record the readings. Perform head space screening of the sample as described in Section 2.2.6.
11. Collect soil samples. The soil sample selected for laboratory analysis in a given boring will be the sample with the highest PID reading, MVA reading, or visual/olfactory signs of contamination if instrument readings are background. If the field screening readings in the boring are background, then the sample collected directly above the water table will be sent to the laboratory for analysis. Additional detail on the selection of soil sample for analysis is given in Section 2.2.6 - Field Screening (Head Space) of Soil Samples.
12. Decontaminate split-spoon sampler before using again as described in Section 2.5.

The drillers will be instructed that the boring must be advanced by drilling with the auger bit between the collection of split-spoon samples. This will allow the field inspector to maintain good depth control of samples. The collection of consecutive split-spoons samples will not be permitted except in the case of borings advanced through concrete pads or floor slabs (where the small diameter of the opening in the concrete will prevent the use of augers). This will minimize the chance of sampling slough or wash cuttings, which are not representative of subsurface conditions.

2.2.3.2 Direct-Push Techniques

Depending on site logistics, a direct-push rig may be used to advance borings. Continuous soil samples will be collected from each soil boring using a 4-ft macro-core sampler with a dedicated, clean acetate liner. Each 2-ft portion of soil sample in the 4-ft macro-core sampler will be treated separately to maintain a 2-ft sampling interval for the direct-push boring. Samples from each macro core will be screened in the field and in each area of concern, the samples that show the greatest signs of contamination (i.e., elevated PID or mercury vapor analyzer reading, discoloration, odor, etc.) will be submitted for analyses. If contamination is not evident from the field screening, then the default sampling depth for soil samples submitted for laboratory analyses will be just above the water table.

The direct-push rig (e.g., GeoProbe®, Humcane, etc.) will be set up and operated in accordance with standard drilling practices and in a manner that will promote the safe and efficient operation of the equipment. The project driller will be a certified test borer and New Jersey-licensed well driller. Safety considerations during equipment operation are addressed in the RI/FS HASP (Part III of the Field Operations Plan).

The equipment used in the direct-push operations will be steam cleaned upon arrival at the site. The equipment and tools that come in contact with soil during drilling will be decontaminated before resampling, before moving to the next drilling location, or before leaving the project site. Decontamination procedures are described in Section 2.5.

The general procedures for direct-push sampling are provided below:

1. Clear the area of vegetation and any large surface debris such as rocks that may inhibit sampling and to allow passage of the vehicle on which the equipment is mounted.

2. Before direct-push sampling, a decontaminated trowel may be used to collect a soil Sample from the 0 ft to 0.5 ft below ground surface (bgs) interval if required. Insert a dedicated, hollow acetate liner into the tube sampler and attach the tube sampler to the drill rods (or, if appropriate for the site conditions, a decontaminated split-spoon sampler may be used).
3. Push the sampler to the desired depth. If an obstruction is encountered, offset the location and record the exact direction and location in the project field book.
4. Retrieve the sampler.
5. On a level surface spread out plastic sheeting. Slide the plastic liner out of the tube sampler and place it on the plastic sheeting. Split open the plastic liner with a decontaminated knife or razor to expose the sample.
6. Screen the sample for the presence of contamination through visual and olfactory observation, for organic vapors using a PID, and for mercury vapor using a MVA. To obtain the most representative vapor reading, use a decontaminated stainless steel spoon, knife or other appropriately constructed device to score the length of the core surface or make cross sectional slices to a depth that exposes porous soil. Simultaneously, first move the probe of the PID slowly above the lateral scoring (or into the opened areas being careful not to touch the sample) and record the results. Use the MVA next, using the same procedure as for the PID.
7. After the boring is complete, place the soil not used for analyses back into the sampling borehole.
8. Decontaminate the direct-push sampling equipment.

2.2.3.3 Stratigraphic Borings

Seven stratigraphic borings will be advanced to provide information about site geology. A soil boring will be advanced to a depth of about 25 feet below ground surface at three areas of concern closest to the brine sludge lagoon. Deeper borings are not required in these areas at this time because bedrock borings were already advanced here and the general stratigraphy is known. Four additional borings will be advanced to bedrock in the west portion of the site. The data collected from the seven stratigraphic borings will be used to further develop the current geologic model of the site.

The general procedures for the stratigraphic borings will be to advance the borings using hollow-stem auger techniques to maintain accurate depth information for each sample. Continuous split-spoon samples will be collected through the upper strata (fill material) and through the upper-most layer of native soils, inferred to be marsh-type deposits. Once the marsh deposits are penetrated, split-spoon samples will be collected at five foot intervals until a depth of about 25 feet below ground surface or until bedrock is reached, depending on the location of the stratigraphic boring. Refusal of the borer, presence of weathered bedrock in the tip of the split spoon, and the judgment of the field inspector will be used as indicators that the top of bedrock has been reached. Samples for laboratory analyses will not be collected from the stratigraphic borings. Once completed, the stratigraphic borings will be sealed in accordance with the procedures described in Section 2.2.7 - Borehole Sealing.

2.2.3.4 Cased Deep Borings

Section 2.2.3.4. inserted from FOP Addendum No. 1 (Brown and Caldwell, October 2001)

Boreholes to be drilled below the Tidal March Deposits will be advanced as cased boring to minimize vertical migration during the drilling process. Each deep borehole will be initially advanced through the fill and approximately two feet (2') into the underlying Tidal Marsh Deposits with the use of hollow stem augers. Split-tube ("split-spoon") samples will be collected within the encountered materials at the depth intervals as specified in the Work Plan.

A permanent casing will be installed through the augers that will be terminated within the Tidal Marsh Deposits. The casing will consist of pipe, e.g., four-inch (4") diameter PVC pipe that is grouted into place. The actual casing material and size will be dependent upon the specific drilling equipment that is employed. The annular space around the casing will be sealed with cement/bentonite grout by the tremie method as the augers are removed from the borehole following the procedure as described in Section 2.2.7.

In the event that the Tidal Marsh Deposits are apparently absent at a particular location, the casing will still be installed through the fill to minimize vertical migration of contaminants during the drilling process. In this case, the casing will be installed below the fill at the depth where the Tidal Marsh Deposits were observed in nearby boreholes.

After the grout has set, the boring will be resumed through the casing. This will include drilling through the remaining Tidal Marsh Deposits and into the underlying Glacial Till using the water-rotary drilling method. Drilling mud will be used, as necessary, to maintain the integrity of the borehole during the drilling process.

Split-tube soil samples will be collected at the intervals, as specified in the Work Plan. Upon completion, the entire borehole, including the casing will be sealed with cement/bentonite grout by the tremie method as described in Section 2.2.7. The handling of the drill cuttings and fluids from the portion of the borehole drilled by the water-rotary method are described in Section 2.6.

2.2.3.5 Subsurface Conditions Beneath Building Nos. 230 and 240

Section 2.2.3.5 inserted from FOP Addendum No. 3 (Brown and Caldwell, March 2002)

The LCP site has been constructed on fill soil that has been placed over the Marine Tidal Marsh Deposit soils. The geotechnical characteristics of these underlying soils dictate the use of pile foundations for each of the buildings and other structures at the site. A review of available engineering design drawings has been performed in order to determine the locations of various subsurface foundation elements for Building Nos. 230 and 240 and the adjacent transformer and rectifier pads. Particular attention has been paid to the location of the foundation piles. The material of construction of the piles is not known, although there is a reasonable likelihood that they are made of wood.

It is likely that the fill soil beneath the concrete slabs in each building has settled since the construction of the buildings. Accordingly, it is presumed that there is a void space beneath each of the building slabs. The height of these voids is not known.

The subsurface components of the foundations for each pertinent structure are described briefly below.

- **Building No. 230** - Foundation details for Building No. 230 are depicted on Drawing No. D-411 [FD-5155]. Closely spaced pile clusters (4 to 15 in a cluster/cap) are located beneath each wall column. Pile caps along the exterior walls are tied together with concrete grade beams that extend below the ground surface. The thickness of the floor slab is estimated to be 1.5 feet and the thickness of the floor slab and pile cap combined is estimated to be 4.0 feet.
- **Previous Transformer and Rectifier Pads – Building No. 230** - An array of foundation pads previously existed immediately west of Building No. 230 (Drawing No. D-418 [FD-5216]) in a configuration that was different than the currently existing pads. It is likely that piles for these pads were not removed upon the construction of the current pads. The location of these olds piles is not known.
- **Existing Transformer and Rectifier Pads – Building No. 230** - An array of equipment pads currently exists immediately west of Building No. 230 (Drawing No. D416 [FD-5160]) that is different than the

previous transformer and rectifier pads depicted on Drawing No. 418. The locations of the piles beneath the existing transformer and rectifiers pads west of Building No. 230 are depicted on Drawing No. D416.

- **Building No. 240** - Foundation details for Building No. 240 are depicted on Drawing Nos. H-5058 and H-5059, as presented in the back pocket. Concrete pile caps located beneath the floor are depicted on these drawings. Pile caps along exterior walls are tied together with concrete grade beams that extend below the ground surface. The depth of these grade beams is not known. The thickness of the floor slab is estimated to be 1.5 feet and the thickness of the floor slab and pile cap combined is estimated to be 4.0 feet.
- **Transformer and Rectifier Pads – Building No. 240** - An array of equipment pads located immediately west of Building 240 are depicted on the areal topographic survey. No engineering design drawings depicting the locations of piles have been found.

It should be noted that the aforementioned engineering design drawings provide a valuable tool for decision-making regarding the horizontal borings. However, some uncertainly still exists with regard to subsurface conditions due to limitations of the referenced drawings, as follows:

- The drawings are engineering design drawings and do not represent actual "as-built" conditions.
- The drawings to not include all pertinent foundation details.
- Drawings are not available for all pertinent areas.

Based on these limitations, test excavations will be used to address specific areas of uncertainty, as described in the following section.

2.2.3.6 Test Excavations

Section 2.2.3.6 inserted from FOP Addendum No. 3 (Brown and Caldwell, March 2002)

Test excavations will be used in an attempt to clarify specific issues with regard to foundation elements beneath the buildings and adjacent concrete transformer pads. The test excavations will be performed using a small backhoe. The backhoe will be operated in a manner that will promote the safe and efficient operation of the equipment. The equipment used for the test excavations will be steam cleaned before leaving the project site. Decontamination procedures are described in Section 2.5 of the existing FOP.

It is intended that the test excavations will be employed in the following areas to:

- Determine the depth of the grade beam adjacent to each of the inclined borings and horizontal borings.
- Determine the thickness of the transformer pads in the area of the horizontal borings adjacent to Building Nos. 230 and 240.
- Attempt to excavate beneath the transformer pads adjacent to Building No. 240 in order to determine the locations of the supporting piles.

In no case will test excavations be performed in the areas immediately above the horizontal borings. The general procedures for test excavations are provided below:

1. Excavate the soil immediately adjacent or beneath the building foundation and/or concrete pads to the necessary depth to view the subsurface piles.

2. For excavations below the water table, water that accumulates with the test excavation will be pumped out using a suitable pump, as required. If the water does not have an observable sheen or odor and if the PID readings of the water remain at background levels, the water will be discharged to the ground surface and allowed to percolate back to the groundwater system. The water will not be discharged to the ground in areas where it may run off the site. If the water has signs of gross contamination, it will be collected in U.S. Department of Transportation (DOT) approved (or equivalent) 55-gallon drums and stored at the site staging area. These suspected fluids would be analyzed to determine their toxicity characteristics. After the analytical results are received, these fluids will be disposed of in accordance with applicable local, state, and federal regulations.
3. Mark the location of the subsurface piles on the building or concrete slabs.
4. After the excavation is complete, place the soil back into the test excavation.
5. Place clean gravel at the test excavation locations upon completion to minimize subsequent contact with the newly exposed soil.
6. Decontaminate the excavating equipment before it is removed from the site.

2.2.3.7 Wet-Rotary Drilling Methods

Section 2.2.3.7 inserted from FOP Addendum No. 4 (Brown and Caldwell, October 2006)

Drilling with wet-rotary drilling methods will allow the installation of multiple casings within each deep borehole. In addition, this method allows the use of conventional soil and rock sample collection methods to provide samples for visual identification and laboratory testing. In the event that evidence of free, metallic mercury is observed in the split-barrel samples while drilling the borehole, drilling will immediately be discontinued and the borehole will be sealed. The drill rig will then move laterally and the well drilling will be resumed.

Continuous soil sample collection will be performed in each boring with the use of a 2-foot, split tube sampler. Samples from each split-tube sample will be screened in the field and the samples showing the greatest signs of contamination (e.g., elevated PID or MVA readings, discoloration, odor, etc.) will be submitted for analyses. If contamination is not evident from the field screening, then the default interval will be the base of each stratigraphic unit, with the exception of the fill. The default collection depth for the fill will be just above the water table.

When advancing borings using the wet-rotary drilling method, the borehole diameter will be sized in accordance with the NJDEP requirements (i.e., 2-inch minimum annular space) for the installation of monitoring wells and with the top-of-bedrock well requirements provided in Section 2.3.1.1.

The drilling rig will be set up and operated in accordance with standard drilling practices and in a manner that will promote the safe and efficient operation of the equipment. The project driller will be a New Jersey-licensed well driller. Safety considerations during equipment operation are addressed in the HASP.

The equipment used in the drilling operations will be steam cleaned upon arrival at the site. The equipment and tools that come in contact with soil during drilling will be decontaminated in accordance with Section 2.5 of the FOP.

Split-barrel soil samples will be collected at the intervals, as specified in the Work Plan. Subsurface soil samples will be continuously collected with a two-inch diameter split-barrel in accordance with American Society for Testing and Materials (ASTM) D-1586 methods.

The drillers will be instructed that the boring must be advanced by wet-rotary methods between the collection of each split tube sample (per ASTM D-1586). This will allow the field inspector to maintain good depth control of samples. This will minimize the chance of sampling slough or wash cuttings, which are not representative of subsurface conditions.

Upon completion, the entire borehole, including the casing will be sealed with cement/bentonite grout by the tremie method as described in Section 2.2.7. The handling of the drill cuttings and fluids from the portion of the borehole drilled by the water-rotary method are described in Section 2.6.1.

2.2.3.8 Inclined Conventional Borings

Section 2.2.3.8 inserted from FOP Addendum No. 3 (Brown and Caldwell, March 2002)

Three (3) inclined conventional borings will be performed near the eastern edge of the exterior of the buildings to characterize the soil fill conditions beneath the concrete pads or floor slabs of the buildings. The inclined borings will be performed by the direct push technique or the hollow-stem auger drilling method with angle drilling capabilities following the methods as described in Sections 2.2.3.2 and 2.2.3.1, respectively, of the existing FOP. The maximum angle of the inclined borings is 45° for either the direct push or the hollow-stem auger technique.

Soil samples will be collected continuously through the fill to the top of Tidal Marsh Deposit (if present). If the Tidal Marsh Deposit is not present, then the default boring depth will be to the top of native soils. Regardless of the stratigraphy, each boring will be advanced at least to the depth of the water table, which is assumed to be within the fill unit.

Soil samples from the 4.0 to 4.5 ft interval, which corresponds to the interval directly below the estimated combined depth of the concrete floor slab and pile cap or the grade beam, will be collected for laboratory analysis for TCL/TAL parameters. One (1) additional sample may be submitted from each boring for laboratory analysis for TCL/TAL parameters, if field screening indicates elevated levels of mercury and/or organic vapors and/or obvious visual or olfactory signs of contamination. The sample depth will be adjusted, as applicable, if additional information reveals the depth of the floor slab and/or the building foundation to be incompatible with a 4.0 to 4.5 ft interval.

The drilling contractor will be responsible for contacting the New Jersey "One-Call" System prior to performing any subsurface drilling work. Supplemental utility clearance will be performed in the vicinity of each drilling location in addition to the "One-Call" notifications, as described in Addendum No. 2 to the FOP.

Soil Sample Collection Locations

The inclined conventional borings are described as follows:

- Boring IB-1 inclined conventional boring will be drilled in close proximity to the eastern edge between Buildings 220 and 230.
- Boring IB-2 inclined conventional boring will be drilled in close proximity to Building 230 on the eastern edge of the exterior of the building.
- Boring IB-3 inclined conventional boring will be drilled in close proximity to Building 240 on the eastern edge of the exterior of the building, north of the southern addition to Building 240.

2.2.3.9 Horizontal Borings

Section 2.2.3.9 inserted from FOP Addendum No. 3 (Brown and Caldwell, March 2002)

Horizontal borings will be drilled beneath Building Nos. 230 and 240 to characterize the soil fill conditions. The borings will start from the ground surface outside of the buildings, entering the ground at an angle and proceeding downward until the necessary depth is attained. The bore's path is then leveled, and the bore head is steered to the desired completion point.

The drilling will be performed using a horizontal drill rig (Ditch Witch Model No. JT 2720 or JT 4020 manufactured by The Charles Machine Works). The drilling is advanced using a rotary technique developed for, and commonly used in the underground utility industry. A bentonite slurry is used to stabilize the borehole and to remove cuttings.

The sample locations for each borehole are predetermined as three-dimensional points in space. Accordingly, the drilling assembly is steered to the predetermined point in both the vertical and horizontal plane. Drill head depth and location can be monitored by electronic tracking equipment, which also provides information necessary for making steering adjustments. Sections of drill stem are added as the bore progresses.

A horizontal soil sampler tool manufactured by Ditch Witch® Environmental Systems will be used to obtain discrete-interval samples. The sampler can collect a two-inch (2") diameter sample that is one foot (1') in length. The sampler will be decontaminated prior to each use to allow the collection of representative samples for chemical analysis and geologic evaluation at each intended interval following the decontamination method as described in Section 2.5 of the existing FOP.

The soil samples are collected by advancing the borehole to a point approximately two to three feet (2 to 3') from the desired sample location. The drilling assembly is removed from the borehole and the soil sample tool is attached to the drill string. The tool is then reinserted into the hole and pushed back to the sample location. Once the end of the borehole is reached, the sample tool is then pushed to the undisturbed formation and then retracted slightly to trigger the sampler to open. The open soil sampler is then pushed forward approximately one foot (1') further into the undisturbed soil to collect the soil sample. The drill string is then pulled out of the hole and the sample is recovered. If another sample is required along the same axis, the drill head is fitted back onto the drill string and the drilling assembly is then drilled to the next target and the procedure is repeated. If a sample is required at a deeper depth at the same location, the drilling head is retracted and the hole may be "side tracked" to the deeper depth. The hole is then drilled back to the target location and once again the sample procedure is repeated.

The drill head is normally tracked and steered using radio detection, where the drill head is tracked from above the boring and alignment readings are taken every ten feet (10'). The utility of the radio tracking will be limited at the LCP site, however, given the access limitations in the buildings and the likely presence of reinforcing steel in the thick concrete slab. In order to address this limitation, it is intended to initiate each boring on a straight and level course prior to drilling beneath the buildings. The borings will be computer-controlled on a straight and level line to the extent possible beneath the buildings using the radio data that can be received from the drill tool. This is anticipated to allow the collection of samples within a reasonable range of the proposed locations.

The horizontal borings will be sealed after completion to prevent contaminant migration. Sealing will be achieved by backfilling the borehole with bentonite slurry. The bentonite will be pumped into the borehole as the drill string is removed from the borehole.

Efforts will be made to avoid drilling into the piles and other subsurface foundation materials on which the buildings and exterior transformer pads are supported. This has been accomplished by a review of historic building design drawings that provide information regarding the subsurface piles and other subsurface details. Other visible structural clues have also been considered regarding the piles including the positions of columns, and other structural details. Additionally, test excavations will be performed around the building foundation and concrete equipment pads in an attempt to locate the subsurface piles and other subsurface details. The boring locations, as described below, have been determined based on the aforementioned foundation information.

The drilling or excavation contractor will be responsible for contacting the New Jersey "One-Call" System prior to performing any subsurface drilling or excavation work. Supplemental utility clearance will be performed in the vicinity of each drilling location in addition to the "One-Call" notifications, as described in Addendum No. 2 to the FOP.

Soil Sample Collection Locations

The horizontal boring locations, described below, have been designed to provide optimum sample placement within the constraints of the subsurface conditions. This is based on the site reconnaissance and the review of the available engineering design drawings. If the locations described below are found to be inaccessible based on field conditions or observations, an immediate field decision to relocate the boring will be made in consultation with the on-site USEPA oversight person.

The horizontal drilling will be performed on west to east trending borings starting at points located approximately 30 feet from the west side of Bldg. Nos. 230 and 240. The bores will be advanced as described below:

- A "shallow" borehole, HB-1, approximately 13 feet long, will be advanced along the northwestern portion of Building No. 230 that encounters the former "sump area". This bore will be advanced as close to the bottom of the slab as conditions allow. Samples will be collected from the western and eastern edges of the former sump (approximately 4.5 ft and 13 ft from the interior wall).

  The structural conditions that have been considered to locate this boring include the locations of the piles beneath the stairwell and foundation of Building 230, as depicted on Drawing No. D-411 (FD-5155).
- A "deep" horizontal borehole, HB-2, approximately 13 feet long, will be advanced beneath Building No. 230 parallel and approximately five feet (5') beneath the first bore that will encounter the former "sump area". It is intended that this boring will be advanced as close to the base of the fill as possible with samples collected from the western and eastern edges of the sump (approximately 4.5 ft and 13 ft from the interior wall).

  The structural conditions that have been considered to locate this boring are the locations of the piles beneath the stairwell and foundation of Building 230, as depicted on Drawing No. D-411 (FD-5155). It will not be possible to extend this boring beyond the sump to the east, as was intended, due to the presence of piles.
- A "shallow" borehole, HB-3, approximately 100 feet long, will be advanced within Building No. 230 between the trench and the common wall between Building Nos. 230 and 240 with samples collected at approximately 25-foot intervals. This bore will be advanced as close to the bottom of the slab as conditions allow.

The structural conditions that have been considered to locate this boring are the piles located beneath the transformer and rectifier pads west of Building No. 230, the piles beneath the foundation and floor, including the piles located in close proximity to the trench, as depicted on Drawing Nos. D-411 [FD-5155] and D-416 [FD-5160].

- A "shallow" borehole, HB-4, approximately 100 feet long, will be advanced approximately 25 feet south of the division between Bldg. Nos. 230 and 240 with samples collected at approximately 25-foot intervals.

  This bore will be advanced immediately below the slab. The structural conditions that have been considered to select the location of this boring are the piles located beneath the rectifier pads west of Building 240 and the piles beneath the foundation and floor, including those beneath the common wall between Building Nos. 230 and 240, as depicted on Drawing Nos. H-5058 and D-411 [FD-5155]. It will not be possible to advance the boring directly beneath the division between the buildings, as was intended, due the presence of a large number of piles below the side supports for the buildings.
- A "shallow" borehole, HB-5, approximately 100 feet long, will be advanced within the center of Building No. 240 with samples collected at approximately 25-foot intervals.

  The structural conditions that have been considered to select the location of this boring are the piles located beneath the rectifier pads west of Building 240 and the piles beneath the foundation and floor, including those in close proximity to the trench, as depicted on Drawing No. H-5058.
- A "shallow" borehole, HB-6, approximately 75 feet long, will be advanced beneath the southern addition to Building No. 240 with samples collected at approximately 25-foot intervals.

  The structural conditions that have been considered to locate this boring are the unknown locations of piles beneath the "shed", the piles beneath the foundation and floor, as depicted on Drawing No. H-5059, and the active Elizabethtown Water Company water main located partially below ground surface in this area.
- A "shallow" borehole, HB-7, approximately 6 feet long, will be advanced along the northwestern portion of Building No. 240 that encounters the former "sump area". This bore will be advanced as close to the bottom of the slab as conditions allow with a sample collected beneath the middle of the former sump.

  The structural conditions that have been considered to locate this boring are the rectifier pads west of Building No. 240 and the piles beneath the foundation and floor, including those beneath the common wall between Building Nos. 230 and 240, as depicted on Drawing Nos. H-5058 and D-411 [FD-5155]. It will not be possible to extend this boring further east due to the presence of piles.
- Additional deep, horizontal boreholes will be drilled, as required, based on the field screening results and visual character of samples from the shallow boreholes. The locations of these borings would be made in consultation with USEPA.

Each of the soil samples will be field screened using a PID and a MVA as described in Section 2.2.6 of the existing FOP. The horizontal drilling program will result in the collection of approximately 20 samples for laboratory analysis of TCL/TAL parameters. This number of samples for laboratory analysis exceeds that as prescribed in the Work Plan. However, no laboratory analysis for mercury will be performed on samples containing visible metallic mercury, consistent with previous RI work.

2.2.3.10 Field QA/QC Samples

Section 2.2.3.10 inserted from FOP Addendum No. 3 (Brown and Caldwell, March 2002)

Field QA/QC samples will be collected in accordance with Section 2.8 of the FOP. These samples will consist of:

- One field blank sample will be prepared per matrix for each day that samples are collected.
- Five percent of the samples collected shall be field duplicates (one duplicate for every 20 samples).
- A temperature blank will be used in each sample shuttle to measure the temperature of the samples upon shipment arrival to the laboratory.
- Matrix spike/matrix spike duplicate samples (MS/MSDs) will be analyzed for each matrix for every 20 environmental samples (five percent) or one per batch.

2.2.3.11 Penetrating Concrete Pads or Floor Slabs

To collect soil samples beneath concrete pads or the floor slabs of buildings, a portable electric or gas-powered core drilling machine will be used to core an access hole having a minimum diameter of 6 inches. Water will be used to wet the work area as required to prevent the generation of dust. Once the concrete core is removed, the soil beneath the slab will be collected for screening or analysis using a split-spoon sampler. Once the sample is collected from the required depth, the hole will be backfilled with the original soil and the core hole in the concrete slab will be grouted, from the bottom of the slab to the top, to seal the hole and to prevent surface water or debris from entering it.

If an electric core drilling machine is not suitable for the job because of excessive slab thickness or because of the presence of metal reinforcing bars within the slab, a jackhammer or similar pneumatic device will be used to penetrate the slab. Regardless of the equipment used, dust generation will be minimized with the application of water and the hole in the slab will be repaired with grout or patched with quick-drying cement.

2.2.4 Logging of Soil Borings

Soil samples will be described by the field inspector. The format for describing a soil sample will be in accordance with ASTM D2488-93: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) and consistent with ASTM D2487-98: Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System).

A record of significant information related to drilling operations for each boring will be maintained as the boring advances. This information will be recorded on a field boring log. The following information will also be recorded on the log:

- Names of soil materials shall follow the name of the predominant particle size (e.g., clay, silt, sand).
- The grain size and name of the deposit shall be accompanied by the predominant mineral content, accessory minerals, color, moisture, density, plasticity, odor, particle angularity, and other characteristics.
- Symbols of the Unified Soil Classification System (USCS) will be included with the description.

Unified Soil Classification System

Soils are classified for engineering purposes according to the USCS adopted by the U.S. Corps of Engineers and Bureau of Reclamation. The following soil properties form the basis for the USCS:

- Percentage of gravel, sand, and fines
- Shape of the grain-size distribution curve
- Plasticity and compressibility characteristics

According to this system, all soils are divided into three major groups: coarse-grained, fine-grained, and highly organic (peat). The boundary between coarse-grained and fine-grained soils is taken to be the 200-mesh sieve. In the field, this distinction is based on whether the individual particles can be seen with the unaided eye. If more than 50% of the soil by weight is judged to consist of grains that can be distinguished separately, the soil is considered to be coarse-grained.

The coarse-grained soils are divided into gravelly (G) or sandy (S), depending on whether more or less than 50% of the visible grains are larger than the No. 4 sieve (3116 inch). They are each divided further into four groups:

W: Well graded; fairly clean (<5% finer than 0.074 mm)

P: Poorly graded (gap-graded); fairly clean (~ 5 %finer than 0.074 mm)

C: Clayey (42% finer than 0.074 mm); plastic (clayey) fines. Fine fraction above a line with plasticity index above 7.

M: Silty (>12%finer than 0.074 mm); non-plastic or silty fines. Fine fraction below a line with plasticity index below 4.

The soils are represented by symbols such as GW or SP. Borderline materials are represented by a double symbol, as GW-GC.

The fine-grained soils are divided into three groups: inorganic silts (M), inorganic clays (C), and organic silts and clays (O). The soils are divided further into those having liquid limits lower than 50% (L), or higher (H).

The distinction between the inorganic clays C and the inorganic silts M, and organic soils O is made on the basis of a modified plasticity chart. Soils CH and CL are represented by points above the line, whereas soil OH, OL, and MH correspond to positions below the line. Soil ML, except for a few clayey fine sands, are also represented by points below the line. The organic soils 0 are distinguished from the inorganic soils M and C by their characteristics odor and dark color.

Visual Identification

Soil properties required to define the USCS are the primary features to be considered in field identification. These properties and other observed characteristics normally identified in describing a soil are:

a. Color

b. Moisture conditions

c. Grain size
   1 Estimated maximum grain size
   2 Estimated percent by weight of fines (material passing No. 200 sieve)
d. Gradation (Sorting)
e. Grain shape
f. Plasticity
g. Predominant soil type
h. Secondary components of soil
i. Classification symbol
j. Other features such as:
   1 Organic, chemical, or metallic content
   2 Compactness
   3 Consistency
   4 Cohesiveness near plastic limit
   5 Dry strength
   6 Source-native or transported (aeolian, waterborne, glacial deposit, etc.)

2.2.5 Collection of Soil Samples for Analyses of Volatile Organic Compounds

Soil samples that will be analyzed for VOCs will be collected in accordance with the procedures outlined in USEPA Method 5035. This method allows the use of an air-tight, hemetically-sealed vial to collect the soil sample. The seal of the vial is never broken from the time of sampling to the time of analysis. A patented tool called the EnCore™ Sampler (approved by the USEPA) will be used to collect soil samples for VOC analyses.

Encore™ Sampling Procedure

Soil sample collection for VOC shall be performed with the use of the EnCore™ sampler. The sample collection procedure for soil volatiles using the EnCore™ sampler is as follows:

1. Collect three EnCore™ samples and one percent moisture sample (60ml wide mouth glass container with no head space) for each sample point location.
2. Remove the sampler and cap from the EnCore™ package and attach the T-handle to the sampler body.
3. Turn the handle and coring body down, to position the plunger so that the bottom is flush with the bottom of the freshly exposed surface of soil (ground surface or soil core sample). Quickly push the sampler into the soil until the coring body is completely full. When full, the small o-ring will be centered in the handle viewing hole. Remove the sampler from the soil and scrape any excess soil flush with the edge of the sampler using a dedicated decontaminated stainless steel trowel.
4. Use a paper towel to quickly and carefully wipe the sampler head so that the cap can be tightly attached and sealed.
5. To attach the cap, push the cap on with a twisting motion. The cap is properly sealed when the two locking arms are completely seated over the ridge on the body of the sampler.
6. Record the sample identification and time in the field book or log.

7. Complete the sample label on the EnCore™ zipper lock package.
8. Fill in the sample identification number on the self-adhesive label attached beneath the sample label on the EnCore™ package.
9. Tear the self-adhesive label at the perforation and attach the label to the rim of the sampler cap.
10. Place the sampler back into the EnCore™ zipper lock package and seal the zipper lock. The sample label is placed over the opening of the EnCore™ zipper lock package to ensure sample integrity.
11. Repeat the procedure above for the other two samplers.
12. Once all three samplers have been filled, labeled and packaged, place the three EnCore™ packages into one large zipper lock bag with a completed sample tag.
13. Collect the percent moisture sample in a separate sample container (60ml wide mouth glass container). Label the container with the sample designation.
14. Store the samples in a cooler with bagged ice to maintain 4 degrees Celsius while storing on site and during shipment to the laboratory.
15. Samples must be shipped off site to the laboratory within 24 hours.
16. Samples must be received by the laboratory for preservation and preparation for extraction within 2 days from the date of sample collection.

2.2.6 Field Screening of Soil Samples

Field screening methods will be used to screen soils for VOC or mercury contamination. Soil samples will be screened at 2-ft intervals, regardless of whether a 2-ft split-spoon sampler or 4-ft macro core sampler is used. In each area of concern, the sample showing the highest field screening result for VOCs and the sample showing the highest result for mercury will be submitted for laboratory analyses. The field screening procedures are described below.

Volatile Organic Compounds

After a PID (HNU model PI-101, or equivalent) is calibrated (Section 2.9), it is ready to be used. A baseline scan (i.e., scan on "clean air", "clean water" or "clean soil", as appropriate) should be run each day before analyzing site samples and the results recorded.

A background meter reading will be obtained and recorded at the time of field screening. If a concentration above several parts per million (ppm) is detected as background, the source of the reading will be investigated and controlled, if possible, or other appropriate actions taken as provided for in the RI/FS HASP.

The following general procedures will be used to screen for organic vapors using a PID:

- With the calibrated PID turned on, hold the tip of the probe extension approximately one inch from the material being screened. Special care must be exercised not to place the probe extension into the sample or close enough for any soil particles or liquid to be drawn into the probe and contaminate the probe. *(Note: For health and safety procedures, the probe is generally located in the breathing zone for determination of the level of personal protection required.)*
- Hold the tip of the probe extension above the sample being screened for at least ten seconds or long enough for the instrument readings to stabilize so a reliable reading is obtained.

- Record PID readings either manually on the appropriate field data forms (e.g., sample log, boring log, or the field note book) or electronically (as a data point in the instrument's memory). On newer PID models, data may be stored in the PID memory or downloaded through an external downloading port onto a personal or portable computer.
- Once the PID has been calibrated and turned on, the PID should remain on in the "stand-by" mode when not in use.

PID readings and visual observations will be used to identify the presence or absence of VOC contamination within each split-spoon soil sample. The PID reading and visual observations will be recorded on the boring log and in the project field book. The results of the screening surveys will be used to provide a qualitative assessment of subsurface soil contamination.

Mercury

After the MVA (Jerome model 431-X MVA, or equivalent) is calibrated (Section 2.9), it is ready to be used. A baseline scan (i.e., scan on "clean air", "clean water" or "clean soil", as appropriate) should be run each day before analyzing site samples and the results recorded.

A background meter reading will be obtained and recorded at the time of field screening. If a concentration above several ppm is detected as background, the source of the reading will be investigated and controlled, if possible, or other appropriate actions taken as provided for in the site-specific RI/FS HASP.

The following general procedures will be used to screen for mercury vapors using an MVA:

- With the calibrated MVA turned on, hold the tip of the probe extension approximately one inch from the material being screened. Special care must be exercised not to place the probe extension into the sample or close enough for any soil particles or liquid to be drawn into the probe and contaminate the probe.
- Press the sample button and hold the tip of the probe extension above the sample being screened for at least twelve seconds or long enough for the instrument readings to stabilize so a reliable reading is obtained.
- Record MVA readings either manually on the appropriate field data forms (e.g., sample log, boring log, or the field note book).
- Turn the MVA off when not in use and install the zero air filter in the instrument intake during storage.

MVA readings and visual observations will be used to give a preliminary assessment of the presence or absence of mercury contamination within each split-spoon soil sample. The MVA reading and visual observations will be recorded on the boring log and in the project field book. The results of the screening surveys will be used to provide a qualitative assessment of subsurface soil contamination.

Note if free elemental mercury is observed in a given sample, the headspace analyses will not be conducted. Instead, the depth interval and nature of the sample will be carefully documented and the sample will be archived for later evaluation. The presence of free mercury indicates that gross contamination is present far above regulatory criteria and consequently, neither headspace screening nor laboratory analyses of that sample would provide useful information.

2.2.7 Borehole Sealing

The RI/FS borings that penetrate the Tidal Marsh Deposit (TMD), described in the RI/FS Work Plan (Section 1.9.2), or are greater than 25 feet in depth will be sealed prior to abandonment to prevent downhole contamination. Sealing will be achieved by backfilling the borehole with bentonite or with a cement/bentonite grout. The grout will be pumped into the boring from bottom to top using either a tremie pipe or the drill rods. Borings with depths of less than 25 feet or which do not penetrate the TMD will be backfilled with the original soil and tamped. It is also anticipated that the monitoring wells MW-1 through MW-6 installed in 1981 (Geraghty & Miller, 1982) will be sealed because of poor construction, pending approval from the USEPA.

The boreholes will be sealed by a NJ licensed well sealer in accordance with N.J.A.C. 7:9-9, Sealing of Observation Wells. The following procedure will be used when sealing boreholes:

1. The grout slurry composition to be used is as follows:
   Pounds of Bentonite: 5.0,
   Pounds of Cement: 94.0
   Gallons of Water: 8.3
2. Calculate the volume of the borehole based on the bit or auger head diameter plus 10%, and determine the volume of grout to be injected. Generally, the total mixed volume is the borehole volume plus 20%.
3. Identify the equipment to be used for the preparation and mixing of the grout. Document that the volume of the tanks to be used for mixing is appropriate for the borehole sealing work.
4. Identify the source of the water to be used for the grout. Water with high sulfate or chloride levels, or heated water, should not be used. These types of waters can cause operational difficulties or modify the set-up time for the grout.
5. Identify the equipment to be used for injecting the grout. Confirm with the driller that the pump to be used has adequate pressure to enable complete return to surface.
6. Identify the volumes to be pumped at each stage or in total if only one stage is to be used.
7. Begin mixing the grout to be injected using a grout mixture specified in 1), above.
8. Record the type and amount of materials used during the mixing operation. Document that the ratios are within specification tolerance. Ensure the grout is thoroughly mixed and free of lumps. Record the consistency of the mixture.
9. Begin pumping the grout through the return line bypass system to confirm that all pump and surface fittings are secure.
10. Begin pumping the grout into the boring. Leave rods or tremie pipes in borehole (and withdraw slowly as pumping, if required) until grout level reaches the surface. Record the times and volumes injected.
11. Top off the grout level in the borehole after the rods or tremie pipe is removed.
12. Clear and clean the surface near the borehole. Level the ground to approximately the pre-existing grade. Add grout or cement as necessary to the area near the borehole. If feasible, document the setup time of the of the mixture.

Note: In most cases there may be some settling of the grout which takes place over several days. If settling occurs, the natural soils from the immediate vicinity or additional grout will be used to restore the area to grade. If a survey of the location has not yet been performed, the location will be staked prior to filling with natural soils so that it could be surveyed at a later time.

2.3 Groundwater Investigation Procedures

The monitoring wells will be installed by a New Jersey licensed well driller. The project driller will be responsible for obtaining the required NJDEP well permits for the RI/FS investigation. NJDEP well permits will be obtained for borings extending beyond 25 feet below the ground surface or for shallow temporary borings with temporary casing left in the ground for a period longer than 48 hours.

2.3.1 Monitoring Well Installation

Overburden monitoring wells with screens positioned across the water table will be installed during the RI. The well materials will be steam cleaned before installation. Well casings will consist of 2-inch ID, Schedule 40, polyvinyl chloride (PVC) pipe with flush-mount threaded joints. The well screens will typically be a 5-ft long section of 2-inch diameter PVC. In no case will the screen length exceed 10 feet. The slot size will correlate to the particle size of the material being screened. If the well is screened in clay, the smallest slot size available will be used with the appropriate size sand for the filter pack. If the well is screened in sand and/or gravel, a 0.010-inch slot screen will be used with a No. 1 filter pack. The filter pack material shall be certified clean, inert, and well-rounded, containing less than two percent flat particles or fines. The bentonite seal shall consist of 100% sodium bentonite. The overburden monitoring wells will be screened across the water table. As-built monitoring well logs will be prepared by the field inspector after each well is completed. Specifically, the procedure described below will be followed during the installation of groundwater monitoring wells.

1. Advance the subsurface boring to the desired depth in accordance with ASTM D-1586-99 procedures, by means of hollow-stem auger drilling (Section 2.2.3).
2. Remove the center plug from the augers and measure the borehole depth using a weighted measuring tape.
3. Add approximately one foot of appropriately sized filter media to the base of the borehole.
4. Insert a 2-inch diameter PVC well screen and riser pipe into the borehole through the hollow-stem augers. The well screens will be capped with threaded caps at the bottom.
5. Add sand to screen section of well while slowly removing the augers. The sand pack should extend at least two feet above the screen section within the borehole. Measure with a weighted tape.
6. Slowly add bentonite slurry to the borehole as the augers are slowly removed. The bentonite seal should extend at least two feet above the top of the sand pack section. Measure with a weighted tape.

   Note: The rate of removal of the auger from the borehole should closely follow the rate that the sand pack and bentonite fill the borehole.

7. The remainder of the borehole will be grouted to the ground surface using grouting materials through a tremie pipe as described below.
8. A cement/bentonite grout mixture will be prepared according to the NJDEP Field Sampling Procedures Manual, 2005 for monitoring well specifications.
9. Pump cement/bentonite grout to the borehole through a side-discharge tremie pipe (i.e., pipe with a short, 90 degree elbow attached) from the top of the bentonite seal to the ground surface. The side discharge will avoid disturbing the bentonite seal.
10. Remove the tremie pipe and remaining augers from the borehole.
11. Top off grout in the borehole. Grout should extend to approximately two feet below the ground surface.
12. Cut the well riser pipe to about two feet above the ground surface where a stickup casing will be used or just below the ground surface for a flush-mounted well.

13. Backfill the remaining two feet of borehole with concrete.
14. The top of the riser will be notched to be used as a reference point for water level measurements. A well cap will be installed.
15. Install a protective 6-inch diameter steel casing equipped with a locking cap or a flush-mounted manhole cap over the well riser pipe and set it into the concrete backfill. Label the casing permanently with the well identification.
16. Lock the protective casing cap.
17. Construct a 2-ft by 2-ft by 4-inch concrete pad around the protective casing. Slope the pad away from the protective casing.

Allow the grout for the protective casing to set for at least 24 hours before developing the new monitoring well.

2.3.1.1 Triple-Cased Top-of-Bedrock Monitoring Well Installation

Section 2.3.1.1 inserted from FOP Addendum No. 4 (Brown and Caldwell, October 2006)

The use of triple-cased monitoring wells will be required for the installation of bedrock monitoring wells as shown on Figure 1. The subsurface units to be cased-off include the fill and the entire thickness of the soils. A conventional two-inch, PVC well will be installed within the upper bedrock.

The specific procedure for triple-cased monitoring wells completed within the top of bedrock is as follows:

- Advance a fourteen-inch (14") diameter borehole through the fill and approximately two feet (2') into the underlying Tidal Marsh Deposits with the use of the wet-rotary drilling method in accordance with "Addendum No. 1, Field Operations Plan For the LCP Chemicals, Inc. Superfund Site, Cased Deep Borings (Brown and Caldwell, October 12, 2001).
- Measure the borehole depth using a weighted measuring tape.
- Install a ten-inch (10") diameter permanent casing within the boring approximately two feet (2') into the underlying Tidal Marsh Deposits.
- Grout the casing in place using the tremie method by placing a cement/bentonite grout in the annular space between the casing and the borehole from the base of the borehole to a depth approximately four feet (4') below existing ground surface. In the event that the Tidal Marsh Deposits are apparently absent at a particular location, the casing will still be installed through the fill to minimize vertical migration of contaminants during the drilling process. In this case, the casing will be installed below the fill at the depth where the Tidal Marsh Deposits were observed in nearby boreholes.
- After the grout has set, the boring will be resumed through the ten-inch (10") casing. This will include drilling through the remaining Tidal Marsh Deposits and through the underlying Glacial Till until refusal, using the wet-rotary drilling method. The borehole drilling mud will be used, as necessary, to maintain the integrity of the borehole during the drilling process.
- Flush the borehole with potable water and continue approximately three to five feet[1] (3' to 5') into rock by means of an NX (3" O.D.).

[1] The three to five foot (3' to 5') bedrock casing socket, as described, is required to adequately characterize the upper, fractured zone of the bedrock. This socket depth conflicts, however, with the New Jersey bedrock well construction standards that require a minimum depth bedrock casing socket of ten feet (10') [N.J.A.C. 7:9D(b)1.]. Accordingly,

- Measure the borehole depth using a weighted measuring tape.
- Ream the corehole to a nominal 10-inch (10") diameter using the wet-rotary method.
- Install a six-inch (6") diameter permanent casing within the bedrock.
- Grout the casing in place using the tremie method by placing a cement/bentonite grout in the annular space between the casing and the borehole from the base of the borehole to a depth approximately four feet (4') below existing ground surface.
- After the grout has set, the boring will be resumed through the 6-inch (6") casing approximately fifteen to twenty feet (15 to 20') by means of an NX (3" O.D.) rock core.
- Ream the corehole to a nominal 6-inch (6") diameter using the wet-rotary method.
- Insert a flush-threaded, two-inch diameter, Schedule 40 PVC monitoring well screen and riser casing in the borehole, with a well screen that is positioned across the hydrostratigraphic zone targeted for monitoring.

Develop and install the monitoring wells in accordance with Sections 2.3.1 and 2.3.2, respectively, of the "Final Sampling and Analysis Plan, Field Operations Plan, Part I" (URS, April 12, 2001).

- The handling of the drill cuttings and fluids are described in Section 2.6.1.

2.3.2 Well Development

After drilling, and no sooner than 24 hours after well installation to allow the grout for the protective casing to cure, each new monitoring well will be developed by pumping or bailing until the discharged water is visually free of suspended particles, and if possible, achieves a nephelometric turbidity unit (NTU) of less than 5.0. Well development is the process of flushing the interface between the aquifer and the well. In addition, the filter pack and screen slots are cleaned, allowing ground water to flow into the monitoring well with a minimum of retardation. Development is required to (1) restore the natural permeability of the formation adjacent to the borehole, (2) remove clay, silt and other fines from the filter pack and well screen so that subsequent water samples will not contain excessive suspended matter; and (3) remove remnant drilling fluids and contaminants potentially introduced during drilling activities.

The development process is best accomplished by causing the natural formation water inside the well screen to be moved vigorously in and out through the screen in order to agitate the clay and silt. This causes clay and silt particles to be moved into the well where they can be removed or lodged into the sand pack and/or formation. Formation water will be used for surging the well. As required by the USEPA (October 24, 2000) for this RI/FS, well development will be in accordance with the RCRA Ground Water Monitoring Draft Technical Guidance, November 1992 – Section 6.7, Well Development. If the well goes dry during development, it will then be developed with alternating cycles of purging and recovery. If, after reasonable repeated attempts, a turbidity reading of 5.0 NTUs is not achieved at any given well, then the USEPA will be informed and recommendations for additional action will be presented.

---

written authorization for the well construction deviation will be required to be obtained from NJDEP, Bureau of Water Allocation in accordance with N.J.A.C. 7:9D-2.8 prior to commencing drilling. Assistance in this regard may be required from the case manager.

Equipment used for well development will be cleaned before each use to prevent possible cross contamination of the wells. Decontamination procedures are described in Section 2.5.

Development of each well will be performed by pumping or bailing. Either of these methods will remove silt-laden water. A bailer which is heavy enough to sink rapidly through the water can be raised and lowered through the water column to produce an agitating action that is similar to that caused by a surge block. The bailer has the added capability of removing turbid water and fines each time it is brought to the surface.

A submersible pump can be used effectively where recharge is rapid. Surging can be accomplished by switching the power source on and off while pumping, causing ground water to move in and out through the screen, achieving the desired cleaning action. The size of the pump used is dependent upon the well design and associated recharge rate.

An inertial lift pump may also be used for development. This is a reciprocating pump, which recovers groundwater through a tube and foot valve assembly, utilizing the inertial lift principle. This method is especially effective for pumping water heavily laden with silt and clay.

The well development procedure selected for use by the field inspector will be based on conditions encountered during well installation and the construction details of a given monitoring well. The well development water recovered from each well will be handled as described in Section 2.6 – Investigation-Derived Waste Handling.

Specific development procedures are as follows:

- Well development equipment will be assembled, decontaminated, as outlined in Section 2.5, and installed in the monitoring well. Care will be taken not to introduce contaminants to the equipment during installation.
- Monitoring wells will be developed using pumps with dedicated tubing. If a well yield is very low and is pumped dry, a dedicated bailer may be used to continue development after each recovery. No air or water will be injected into the well during development. The development will continue until the field inspector determines that the water is clear and free of solids based on NTU readings of 5.0 or less.
- Field observations, including the volume of water removed and the discharge water color will be recorded on a Well Development Log and also in the field log book. Field measurement of pH, temperature, and conductivity will be recorded periodically during well development.

ISP Environmental Services Inc. will make every reasonable attempt to develop the monitoring wells in accordance with the RCRA groundwater monitoring guidance (USEPA, November 1992). As noted in Section 1.9.3 of the RI/FS Work Plan (Hydrogeology), however, the groundwater appears to exist in overburden under perched conditions over the Tidal Marsh Deposit, with a saturated thickness of only 1-2 feet. Compliance with the 5.0 NTU criterion may not be possible if the yield of a given well is poor. Other factors may prevent achievement of low turbidity such as natural turbidity in pore water or tidal influences. In these cases, the attempts made to develop the well will be documented, the USEPA will be notified, and recommendations for additional action will be presented.

2.3.3 Groundwater Level Measurement

Groundwater levels will be measured in each monitoring well at the site within a short time period (i.e., synoptic water level round) to determine the elevation of the water table across the site. These measurements

will be collected after a period of two weeks or more after the last well was installed and developed to allow the water table aquifer to stabilize.

Water level measurements will be collected with electric sounders, interface probes, pressure transducers, or water level recorders. The measuring device will be decontaminated according to the specifications in Section 2.5.

Groundwater levels will be measured to the nearest 0.01 foot from a referenced point, usually the top of the riser pipe or inner casing. Static water levels will be measured each time a well is sampled and before equipment is introduced into the well.

2.3.4 Collection of Groundwater Samples

Section 2.3.4 inserted from FOP Addendum No. 4 (Brown and Caldwell, October 2006) – Supersedes Previous Section

The low-flow purging and sampling method will be used to collect groundwater samples.

2.3.4.1 Equipment

Various field instruments will be used during the implementation of the LTGMP. They may include but are not limited to the following:

- Electronic water level meter
- pH meter
- Turbidity meter
- Specific conductivity meter
- Oxidation Reduction Potential (ORP) meter
- Thermometer
- Dedicated purging and/or sampling pumps
- Non-dedicated purging pumps

Monitoring equipment will be protected (as much as practical) from contamination without hindering operation of the unit.

2.3.4.2 Preparatory Activities

Preparatory Office Activities

Physical aspects of the sampling program will be organized in the office prior to embarking on a field sampling project. The time spent in the field is very valuable and should be spent on sample collection, making field measurements and recording data and not on the organization of equipment and containers.

- **Sampling Sequence** - The sequence of sampling will be pre-determined on the basis of existing groundwater quality data. Generally, the least contaminated wells will be sampled first, proceeding to the progressively more contaminated wells, based upon the last event's water quality data.

- **Initiation of Field Data Records** - Field data sheets will be initiated prior to the start of sampling. Examples of initial data to be recorded include site and sampling location identification, well depth and construction, and purging and sampling collection methods.

Preparatory Field Activities

The following procedures will be conducted in the field prior to well purging and sampling. This will be coordinated with the ongoing Hydraulic Monitoring such that a round of water levels is collected just before the groundwater sampling event commences. Measurements shall be collected on the same day so the water level data may be used to generate groundwater flow maps.

- **Well Maintenance Check** - A well maintenance check that includes visual observation of the condition of the protective casing and surface seal will be performed. In addition, the well will be checked for other signs of damage or unauthorized entry.
- **Preparation of Well Area** - A suitable work area will be established around the perimeter of the well. This will provide a clean surface on which sampling equipment can be placed such that it will not become inadvertently contaminated. This work area will be prepared by placing new polyethylene (PE) sheeting on the ground around the well, taking care not to step on it. Alternatives can include the placement of a clean PE lined trash can or a clean PE covered table adjacent to the well.
- **Water Level Measurements** - The depth to water will be measured prior to initiation of sampling activities. Water level measurements will also be made during purging in order to monitor well drawdown, and special care will be taken to thoroughly decontaminate the probe prior to use.

2.3.4.3 Low-Flow Purging and Sampling Method

Introduction

The use of a low-flow purging and sampling method will minimize stress on the water-bearing zone, thereby minimize the disturbance of any sediment that has settled at the bottom of the well. Accordingly, groundwater samples will be more representative of actual aquifer conditions.

The low-flow purging and sampling method to be applied during this monitoring program is described in detail below. It is consistent with the low-flow procedure described in NJDEP's August 2005 *Field Sampling Procedures Manual* with the exception of NJDEP's five-foot sampling interval requirement. Instead of collecting one low-flow sample for every five-foot of well screen length, only one low-flow sample will be collected per monitoring well.

This variance is consistent with the USEPA references that were cited in the *Field Sampling Procedures Manual.* The two USEPA references cited, *Region 1 Low Stress (Low Flow) SOP* (USEPA, 1996) and *Region II Ground Water Sampling Procedure; Low Stress (Low Flow) Purging and Sampling* (USEPA, 1998), state that low-flow procedures may be applied to well screen intervals of up to 10 feet in length. Since the screens of the wells to be sampled at the site are 10 feet in length, the collection of only one low-flow sample from each well would be consistent with USEPA procedure.

Furthermore, this variance is consistent with peer-reviewed scientific research. This research has indicated that there is significant vertical mixing within a well casing even under low-flow purging conditions, making it impossible to define groundwater quality at specific depth intervals by simply adjusting the depth of a pump's intake. Research performed by Varljen, *et al.* (2006), for example, had demonstrated that that the location of a pump's intake within the well screen does not influence the zone sampled, and that neither the intake depth

nor the screen length matter, as the groundwater along the entire length of the screen would be drawn uniformly into the well and sampled, even under low-flow purging conditions. The findings of Varljen, *et al.* (2006) are consistent with Reilly, *et al.* (1989), Puls and Paul (1998), Hutchins and Acree (2000) and Martin-Hayden and Robbins (2000), who all found significant vertical flow and mixing within a well casing under very small head changes or low purging rates.

Based on these research findings, sampling at five-foot intervals in accordance with NJDEP policy would not satisfy the NJDEP's intent of vertically profiling contaminant distribution within a well's screen, but rather would result in the generation of redundant data that would not add any technical value to the monitoring program. Therefore, only one groundwater sample per monitoring well will be sampled using the low-flow purging and sampling method.

Pump Intake Location

The sampling pump intake will be installed within the well screen at the halfway point between the top of the screen and the bottom of the screen, or at a depth that is at least two feet below the static water level if the well is screened across the water table.

Water Quality Indicator Parameters

The following parameters will be measured in order to determine when well stability has been achieved prior to sampling. Their respective measurements will fall within the stated range for three consecutive readings. If the anticipated "third" reading of any individual parameter does not fall within the stated range, then the process to achieve three consecutive readings for that parameter will be restarted. If, after four hours, stability has not been achieved for the parameters listed below, the recommendations presented below will be followed.

Water Level Drawdown	< 0.3 ft*[2]
pH	± 0.1 unit
Specific Conductance	± 3%
Temperature	± 3%
Dissolved Oxygen	± 10%
Turbidity	± 10% for values greater than 1 NTU
ORP/Eh	± 10 millivolts

Measurements should be taken once every 5 to 6 minutes. This interval is based upon the time it takes for purge water to replace one flow-through-cell volume (generally 250 ml) and the time it takes to measure and record the data. If the purge rate decreases or if the flow cell volume is increased, the time required for purge water replacement will increase. Water Quality Indicator Parameters will be collected in a manner that will ensure integrity of the data being collected. To ensure consistency of the data, consideration of the following will be made: 1) tubing diameter, length, and material of construction; 2) flow-through cell design, capacity, decontamination, and "purge-train" set-up; 3) pump selection and plumbing fittings; 4) calibration of flow-through cell probes; 5) purge rate; and, 6) water-level-measurement technique.

[2] During pump start-up, drawdown may exceed the 0.3-ft target and then recovers as flow-rate adjustments are made.

Purge Volume vs. Stabilization Time

In some cases, it may take considerable time to achieve stabilization of the Water Quality Indicator Parameters. In other cases, they may never stabilize. However, as provided in USEPA guidance, the following options are available if stability has not been achieved after four hours of purging: 1) continue purging until stabilization occurs, no matter how long it takes; 2) discontinue purging, do not collect a sample and document the attempts to reach stabilization; or 3) discontinue purging, collect a sample and document the attempts to reach stabilization. In situations where the Water Quality Indicator Parameters do not stabilize, the sampler will document that low-flow purging and sampling could not be performed and document how the samples were collected.

If a Water Quality Indicator Parameter is not accurately measured during the monitoring process or if a certain Water Quality Indicator Parameter does not stabilize, and that particular Water Quality Indicator Parameter is not significant with respect to the type of contaminant of concern, sample collection will still proceed. Any Water Quality Indicator Parameters that are affected by field conditions or instrument malfunction will be discussed in the text of the report in order to alert the end-user of potential data bias.

Tubing

The inside diameter (ID) of tubing will be no greater than three-eighths of an inch (3/8-in). Larger tubing diameters will reduce flow velocity resulting in a corresponding increase of pump speeds to maintain flow. Increased pump speed may, in turn, elevate the potential for turbulent flow across the screened interval and this may affect the quality of the water being sampled. Conversely, any reduction in flow velocity may allow air to become trapped in the tubing, which may ultimately affect air-sensitive parameters or allow particulates to settle, which may affect turbidity values. The length of tubing, from the top of the well casing to the flow-through chamber, will be the shortest length manageable. Attention to this detail will help ensure that: 1) exposure to ambient temperature, direct sunlight, and bubble formation are kept to a minimum, and 2) deposited solids or air bubbles will less likely be trapped in tubing bends and re-mobilized after accidental movement. Occurrence of any one or combination of these factors can cause variations in Water Quality Indicator Parameter measurements, which could increase stabilization time. Therefore, tubing will be completely full of water at all times.

The tubing's material of construction will be either Teflon® or Teflon®-lined polyethylene up to the flow-through cell. Tubing downstream of the flow cell may be constructed of a lower-quality, more flexible material. Tubing "reuse" will not be permitted.

Flow-Through Cell

Cells are required to be transparent in order to "see" the physical condition of the purge water or air bubbles passing through the system. The cell will be sealed against unwanted exposure to the atmosphere, thus ensuring accurate measurement of air-sensitive parameters (dissolved oxygen, pH, etc.). The total capacity of the cell will be small (300-1,000 ml) in order to maintain a desirable turnover rate of water coming into the cell to ensure real-time data integrity. The in-line design will allow for purge water to enter the flow cell from a bottom port and exit at the top. The discharge may be fitted with a check valve.

The pump discharge line will not be connected to the flow-through cell upon initial pump startup. This will allow the sampler time to monitor drawdown, stabilize the flow rate and prevent fouling of probes by bacteria, sediment, or NAPL. Once drawdown measurements indicate that the flow rate has been controlled and a few minutes (<10) have been allowed to clear any unwanted material, the pump discharge line can then be connected to the flow cell.

The cell and probes will be rinsed with distilled/deionized water between each monitor well as accumulation of suspended material may impact probe performance. The probes will then be rinsed using a mild detergent or laboratory glassware cleaning solution, and then rinsed again with distilled/deionized water. Because the location of the flow cell or cells in relation to the sample port is critical, samples for turbidity measurement, general chemistry and laboratory analysis will be collected ahead of the flow cell. If two cells are used in series, the dissolved oxygen probe will be located in the first cell.

The flow-through cells will be located as close as possible to the well head in order to minimize the length of tubing needed between the well head and flow-through cell. The flow-through cell will be protected from ambient conditions and the ground surface.

Pump Selection

Pumps used for monitoring Water Quality Indicator Parameters will be submersible, positive-displacement pumps, and may include bladder, variable-speed submersible-centrifugal, reciprocating-piston, progressive-cavity, or gear pumps. Peristaltic pumps will not be used. The pump discharge will be fitted appropriately to receive either 1/4 or 3/8-inch inside-diameter (ID) Teflon® or Teflon®-lined polyethylene tubing.

Pumps constructed with impellers, helicoils, or gears, which are difficult to clean or are constructed of unacceptable plastic parts, will not be used for sampling. In addition, the power or gas supply line for the pump will be isolated from the sample tubing.

Plumbing Fittings

A check valve will be incorporated into the tubing train, within the pumps, or within the flow cell discharge to eliminate accidental drainage and subsequent aeration of the flow cell. More importantly, a check valve will prevent a back-surge of purged water being reintroduced at the screen interval of the well should the power source or pump experience mechanical failure. A ¼- or 3/8-inch ID barbed "T" or "Y" fitting, placed ahead of the flow cell, may be used to establish the line which will receive a needle valve for turbidity, general chemistry and analytical sample collection. The "T" or "Y" fitting used will be constructed of Teflon® or stainless steel and decontaminated between each use. The fitting may be constructed of polyethylene and decontaminated between each use if it is only used to sample for turbidity and general chemistry parameters. If analytical samples are collected through the "T" or "Y" fitting and needle valve, then those parts will be incorporated into the field blank collection technique. When collecting a sample at the port ahead of the flow cell, a flow control valve (stainless-steel needle valve [preferred] or stainless steel/Teflon® ball valve [optional]) will be used to prevent back pressure and air bubbles from forming in the tubing

The "needle valve" offers versatility as it can be used for collection of turbidity, general chemistry and analytical samples. It can be used with Teflon® tubing and can be used to control sample flow rate because the design significantly reduces any back pressure gradient. Like all other sampling equipment, the "needle valve" will be decontaminated before use at any well.

Calibration of Probes

Calibration of the probes used to monitor water quality indicator parameters will take place in the field prior to the day's events. All manufacturers' instructions for proper care and calibration of the probes will be followed. Solutions for probe calibration will be held to the temperature of the liquid (groundwater) being measured as temperature correlation is critical in calculating conductivity, dissolved oxygen and pH. As an alternative, tables and equations to compensate for the difference between ambient groundwater and

calibration solution temperature may be used if provided in the operating manuals or with the calibration solutions. No sampling will commence until all instruments are calibrated and operating properly. The calibrations steps utilized will be recorded.

Water Level Measurements

The depth to the top of the water column will be recorded prior to pump installation and/or prior to purging. If the total depth of the well needs to be determined (e.g., to verify the correct well designation and/or to determine if silt has accumulated in the bottom of a well), then it will be measured at least 48 hours prior to sample collection or after the sample has been collected and the pump removed. Total depth measurements must never be taken immediately before purging as this may cause the re-suspension of solids in the well and prolong the purge time. Once the initial water-level measurement has been recorded and the pump installed, the water-level probe will be suspended in the well at the point at which drawdown is equivalent to a 0.3-foot drop. The water levels will be recorded simultaneously with water quality instrument parameter measurements once every five minutes. Water-level-measurement devices, which may impart some disturbance to the water column (i.e., stainless steel "popper" or coated tape) will not be used.

Pump Installation

Once pumps have been properly decontaminated and fitted with appropriate tubing, installation of the pump can begin. Pumps will be installed in such a manner as to ensure that any disturbance in the well is kept to an absolute minimum. Once a pump reaches the top of the water column, its descent will proceed very slowly through the water column. The pump will be lowered until the pump's intake reaches the halfway depth between the top and bottom of the screen, or installed at least two feet below the static water level if the well screen intercepts the water table. The actual level where the pump intake will be suspended will be predetermined based upon well construction logs or prior analytical data. Under no circumstance will the pump make contact with, or be "bounced" off, the bottom of the well.

Purge Rates

The purge rate will range between 100 to 500 ml/min. The water will be initially purged prior connecting the tubing to the flow-through cell in order to prevent any fouling of the cell. Tubing will then be connected to the cell with the pump running. After making the connection, the cell will be inspected to verify that purge water has filled cell and that all air is purged from system. The pump speed will remain constant such that flow rates never exceed 500 ml/min and, once stabilized, the flow rate will not be varied. If drawdown exceeds 0.3 ft., then the pump speed will be reduced until the drawdown has stabilized; however, the pump speed will not be reduced to lower than 100 ml/min. If drawdown does not come under control at 100 ml/min, then a field decision will be rendered as to how far to allow drawdown to continue until sample collection. At no time will evacuation allow any portion of the well screen to be exposed (for wells screened below the water table) or bring the well to dryness. Well stabilization indicators parameters will be measured once the water level has stabilized.

Purge rates will be monitored by measuring the flow from the discharge side of the flow cell with a graduated cylinder. All of the required water quality indicator parameters will be recorded on appropriate filed data sheets once every 5 to 6 minutes. Once stability has been attained and recorded, sampling will begin.

Sampling

Once the water quality indicator parameters have stabilized, or once a four-hour (4-hr) time decision has been rendered, sampling can proceed. The same pumping rate used during well purging will be maintained during

sample collection. The sample will be collected directly from the flow control valve at the sample port. A final set of water quality indicator parameter measurements will be recorded immediately after sample collection.

In the event that wells do not stabilize within a four-hour (4-hr) time frame, purging may be considered to be complete in these wells after three to five (3 - 5) well volumes of water have been purged. Accordingly, purging will be considered to be complete in wells in which parameters do not stabilize after three to five (3 - 5) well volumes have been purged and/or after purging for four (4) hours, whichever is a shorter time period.

2.3.4.4 Ultra-Clean Sample Collection and Handling

"Ultra-clean" sample collection and handling methods will be used for the collection of mercury samples from groundwater. The ultra-clean approach provides an additional level of quality assurance in the field to minimize false positive results. The ultra-clean sample collection and handling methodology, as presented below, are consistent with USEPA Method 1669 "Sampling Ambient Water for Trace Metals at USEPA Water Quality Criteria Levels" (USEPA, 1996).

Ultra-Clean Sample Handling

The sampling handling will be performed according to the following steps:

- The sampling team (minimum of 2 people) will be organized into two parties designated as "Clean-Hands" and "Dirty-Hands". The establishment of these roles is intended to minimize potential interference such that the detection of constituents in groundwater samples is a reflection of actual groundwater conditions at the Site and is not biased because of cross-contamination.
- Upon arrival at the sampling location, the team will have already completed the required office preparation activities (See preparation activities section above). Both team members will don clean gloves.
- A work area will be prepared around the monitoring well area by establishing a perimeter around the well. Inadvertent cross-contamination of the sampling equipment will be minimized by placing fresh polyethylene (PE) sheeting on the ground around the monitoring well; the sampling team must not step on the PE sheeting. Alternatives can include the placement of a clean PE lined trash can or a clean PE covered table adjacent to the well. This activity should be performed by the Dirty-Hands team member since there will be potential contact with the surrounding environment.
- Dirty-hands will change gloves. A static water level will be taken by Dirty-Hands and recorded on the field-data sheets by Clean-Hands.
- The pump will be removed from the storage container by Dirty-Hands.
- The tubing to be used will be connected to the pump by Clean-Hands while NOT touching the pump.
- Clean-Hands will then lower the pump slowly through the well to the sample-depth and connect the tubing to the water quality instruments while again NOT touching the instruments. Both will change gloves.
- Dirty-Hands will secure the pump and operate all equipment for purging (water-level meter, pump control box, etc.). Clean-Hands will record the information from the display of the water quality instruments and the water-level and flow-rate given by Dirty-Hands.
- When it is time to sample both will change gloves. Dirty-Hands will remove the sample containers from the cooler (sample containers will have already been placed inside of an inner and outer zipped bag as part of the office preparation activities).

- If filtering the sample, Clean-Hands will attach the inline filter to the sample tubing. Dirty-Hands will open the outer bag and Clean-Hands will open the inner bag and remove the sample container.
- Once filled, Clean-Hands will secure the container lid and return it to the inner bag and zip it shut. Dirty-Hands will then shut the outer bag and place it in the cooler.
- Sampling is now complete and Dirty-Hands will remove all sampling equipment from the well, secure all purge-water and clean the perimeter in preparation of moving to the next location. Clean-Hands will complete all paperwork.

Ultra-Clean Preparatory Office Activities

Physical aspects of the sampling program will be organized in the office prior to embarking on a field sampling project. The time spent in the field is very valuable and should be spent on sample collection, making field measurements and recording data and not on the organization of equipment and containers.

- **Sampling Sequence** - The sequence of sampling will be pre-determined on the basis of existing groundwater quality data. Generally, the least contaminated wells will be sampled first, proceeding to the progressively more contaminated wells, based upon the last event's water quality data.
- **Initiation of Field Data Records** - Field data sheets will be initiated prior to the start of sampling. Examples of initial data to be recorded include site and sampling location identification, well depth and construction, and purging and sampling collection methods.
- **Sampling Equipment Preparations** – All sampling equipment to be used when sampling for mercury will be cleaned initially and placed into two clean, disposable storage bags for transportation to the Site.
- **Analytical Sampling Container Preparation** – When sampling for mercury all containers used will be placed into two clean zipped, plastic bags and transported to the Site inside coolers with ice. This step initiates the Clean-Hands / Dirty-Hands procedures for sampling for mercury.

Ultra-Clean Decontamination

The ultra-clean decontamination procedure is essentially the same as the 9-step decontamination procedure in Section 2.5.3 of the FOP with several exceptions, including glove changes between various steps a more rigorous method of decontaminating non-dedicated pumps.

The cleaning process will consist of the following:

- Change gloves. Disassemble pump, wash parts (except used bladder and O-rings) in laboratory detergent and potable water solution.
- Rinse the pump and parts with potable water.
- Change gloves. Rinse the pump with distilled/deionized water.
- Rinse the pump and parts with 10% nitric acid (if sampling for metals).
- Change gloves. Rinse the pump with distilled/deionized water.
- Rinse the pump and parts with reagent-grade methanol.
- Allow the pump and parts to air dry fully.
- Change gloves. Rinse the pump with distilled/deionized water.
- Assemble the pump with a new bladder and new O-rings and place into two clean, disposable storage bags.

Non-dedicated bladder pumps will be disassembled and the pump and its parts will be cleaned prior to and between each use. The bladder, O-rings and pump tubing will be replaced after each use. Pump tubing will be discarded after each use unless saved and reused for the same monitoring well (dedicated to sampling location).

2.3.5 Field Permeability Testing (Slug Tests)

In-situ permeability tests using the slug test method will be conducted on the monitoring wells. The data will be recorded using an electric pressure transducer and digital data recorder (e.g., Hermit Data Logger). Slug tests will be conducted to determine the hydraulic characteristics of the water table and bedrock aquifer. Slug testing generally involves quickly submerging a solid cylinder of known volume (the "slug") into the water column (falling-head test). After the slug is inserted and as the water column drops to reach equilibrium, the change in water level versus time is recorded by an electric pressure transducer and data processor. After the water level has recovered, the slug is removed (rising-head test) and the response is recorded. The procedures to be followed during slug testing are described below.

Slug In – Falling Head Test

1. Record well number, time, and date; unlock protective casing
2. Check the well headspace with a PID immediately upon opening the well cap
3. Obtain an accurate static water level
4. Place the pressure transducer near the bottom of the well and hook up data logger
5. Place slug (solid PVC or equivalent cylinder) in the well and quickly lower the slug below static water level.
6. The electronic data logger will record the water levels under the Standard Log Schedule. Manual water levels, if used to support the digital data, will be measured according to the following time schedule:

Time since beginning of slug test, in minutes	Intervals between measurement, in minutes
0 – 2	0.5 (30 sec.)
2 – 5	1.0
5 - 30	5.0

7. Leave the slug in place until the well has recovered to within at least 90 percent of its original static water level. In cases of very slow recharge, a 90 percent recovery is not practical, and the test will be run for a minimum of ½ hour to attempt to accumulate sufficient test data.

The falling head or "slug in" method is suitable only for a well in which the screen is fully submerged. If the screen is partially submerged, the test data will overestimate the hydraulic conductivity of the aquifer. After the drawdown phase of the slug test has recovered to within 90 percent; the "slug out" test is initiated.

Slug Out – Rising Head Test

1. Quickly remove slug from the well.
2. Allow the water level to recover to at least 90 percent of the original static water level or until the requirements of paragraph seven above have been met.
3. Clean and dry all equipment (slug, rope, tape) used in the test.

The data results of the permeability tests are interpreted based on the Bouwer and Rice Method (Bouwer and Rice, 1976, Bouwer, 1989). The following formula (Bouwer and Rice, 1976) will be used to calculate hydraulic conductivity (K):

$$K = \frac{r_e^2 (R_e / r_w)}{2L_e} - \frac{1}{t} \ln \frac{y_o}{y_t}$$

Where: r_e = well radius (ft)
R_e = effective radial distance over which the head difference is dissipated (ft)
r_w = radial distance between well center and undisturbed aquifer (ft)
L_e = length of saturated screen (ft)
y_o = water level y at time zero (ft)
y_t = water level y at time t (ft)
t = time since y_o (minutes)

As stated above, falling head tests are suitable only for those wells with a completely saturated screen interval. Therefore, only rising head tests will be performed on the shallow wells because they will be screened across the water table.

2.3.6 Tide Investigation

It was noted during RI-scoping site reconnaissances that surface water is not present along the entire length of South Branch Creek at all times. Surface water is periodically absent from the LCP bulk head area, presumably during low tide. South Branch Creek is apparently more of a drainage channel than an established, perennial, flowing stream. The effects of Arthur Kill tides on South Branch Creek will be assessed and documented through the installation and periodic monitoring of a staff gauge. A commercial staff gauge (e.g., Ben Meadows Company graduated model) will be affixed to the bridge that spans South Bridge Creek between the two tank farms (Figure 3-2).

The groundwater levels of 9 monitoring wells will be monitored to compare tidal variations in surface water and groundwater, determine the tide fluctuations in groundwater across the site, and determine mean groundwater elevations and hydraulic gradients at the site. The nine monitoring wells will be monitored for an approximate one-week period to record a range of daily tidal cycles. The staff gauge installed in South Branch Creek will be surveyed so that surface water levels and tidal variations can be monitored and compared to groundwater levels at the site.

The groundwater measurements will be collected from the wells and from the staff gauge using In-Situ brand Troll model pressure transducers and data loggers (or equivalent equipment). The transducers will be programmed to collect and record a time and pressure head reading once per hour during the monitoring time period. Three additional transducers will be placed along the channel of South Branch Creek (bulkhead area, mid stream, and by Arthur Kill) to monitor the amount of water that actually inundates the channel during high and low tides.

Tidal fluctuations in surface water bodies produce progressive pressure waves in adjacent aquifers. As these pressure waves propagate inland, groundwater levels and hydraulic gradients continuously fluctuate, creating a situation where a single set of water level measurements cannot be used to accurately characterize groundwater flow. At any measuring point (e.g., monitoring well) where groundwater fluctuates because of tides, the magnitude and direction of the hydraulic gradient fluctuates about the mean or regional hydraulic gradient. The net effect of these fluctuations on groundwater flow can be determined calculating the mean hydraulic gradient for that measuring point. This is done by filtering groundwater level measurements

recorded over a period of time to obtain a mean groundwater elevation for that measuring point. A filtering method, described by Serfes (1991), using 71 consecutive hourly water level observations will be used on the data to calculate the mean water level for each monitoring point.

The filtering method (Serfes, 1991) removes the diurnal and semidiumal lunar and solar harmonics from 71 consecutive hourly observations. Using moving averages it yields a filtered mean level for the median time of the 71 hours. First, a sequence of mean is computed for 24 observations, starting with observation one for the first mean and observation 48 for the last, yielding a total of 48 means. Second, a similar series of means is computed for 24 of those means yielding 25 means. Last, the mean of those 25 means is computed yielding the mean level at hour 36.

The filtering method can be expressed mathematically as:

Let the consecutive hourly water level values be O (1), O (2), O (3)…, O (7):

The first sequence of means (Xi) is:

$$X_i = \sum_{K=0}^{23} \frac{O(K+i)}{24}$$

Where I = 1, 2, 3,…, 48;

The second sequence of means (Yj) is

$$Y_j = \sum_{i=0}^{23} \frac{X_i + j}{24}$$

Where j = 1, 2, 3,…, 25;

Then the mean level (M) at hour 36 is

$$M = \sum_{j=1}^{25} \frac{Y_j}{25}$$

The mean groundwater elevations from the 71-hour period will be used to construct groundwater elevation contour maps for the site. Recommendations for or against additional tide investigations will be made on the basis of an evaluation of the data and presented in the RI report.

2.4 Surface Water and Sediment Investigations

Surface water and sediment sampling of South Branch Creek is proposed at six locations. When sampling for both surface water and sediment at the same location, the surface water sample will be taken first with care not to disturb bottom sediments. When possible, surface water grab samples will be collected in the actual container to be used to transport the sample to the laboratory. Therefore, pre-preserved containers are not to be used as collection vessels. Required preservatives will be added after the samples are collected. Surface water samples will be collected at mid-depth of the water column. A horizontal sample collector, such as a pond sampler, may be used to access a surface water sampling location otherwise inaccessible. The samples will be collected following the guidelines described in the NJDEP Field Sampling Procedures manual

(NJDEP, 1992). Surface water and sediment samples will be collected in a "downstream" to "upstream" direction (i.e., in a direction opposite the flow direction of the Arthur Kill tides), to minimize the chance of spreading disturbed sediment to unsampled locations.

Surface Water

The following procedure will be used to collect surface water directly in sample containers provided by the project laboratory:

1. Don a clean pair of latex gloves.
2. Estimate sampling depth by visual observation (for shallow samples) or measure depth using a weighted, flexible measuring tape or a rigid gage.
3. Invert the laboratory-supplied sample container (without preservatives), insert the sample container into the water to the desired level, and then turn the mouth of the sample container up and towards the upstream direction thus allowing the container to fill.
4. Cap sample container while container is still underwater, if possible.
5. Remove sample container from water body and cap if not already capped.
6. Rinse the exterior of the sample container thoroughly with deionized water and label container.
7. Add preservatives and check for appropriate pH.

Record all appropriate data (including sampling location, sampling depth, time of sampling, and description of sample) in field logbook or the Surface Water Sampling Log.

Sediment

The procedures for collecting surface and subsurface sediment samples for analytical and physical parameters are provided below. Based on stream characteristics and logistics, a hand corer (or equivalent device) is selected as the default sampling method for sampling sediment because this method can be used to collect a relatively undisturbed sample that shows a profile of stratification. The procedure to collect a sample using a hand corer is described below.

1. Record the sample location on a site map and in the field logbook.
2. Decontaminate stainless steel sampling equipment in accordance with the procedures outlined in Section 2.5.
3. Don a clean pair of latex gloves.
4. Push core tube into the surface of sediment.
5. Measure length of core tube above surface of water
6. Manually push or hammer the core tube into the sediment to the two-A depth.
7. Fill core tube with water (to remove air above sediment/water interface) and cap top of core tube.
8. Pull core tube out of sediment, as bottom tube breaks water surface, cap bottom of core.
9. Measure the sediment in the core tube to determine depth of penetration and recovery.
10. Transfer (using a decontaminated spoon) each selected depth interval of sediment into separate stainless steel bowls.
11. Decontaminate stainless steel sampling equipment in accordance with the procedures outlined in Section 2.5.

Repeat the steps for pushing and retrieving the core tube to obtain a sufficient quantity of sediment for all chemical and physical analyses. Sediment samples may also be collected using decontaminated stainless steel sampling scoops, trowels, or petit ponar samplers.

The following steps will be performed once the sample is collected:

- Label the sampling jars
- (New bullet inserted from FOP Addendum No. 5 (Brown and Caldwell, October 2006)) Sediment samples targeted for AVS/SEM analysis will be collected with minimum disturbance and exposure to air. These sediment aliquots will be immediate grab samples collected at a depth of 0-0.5 ft, and will be packaged in wide-mouth jars or retained as core segments capped at both ends. In either case, overlying surface water will be retained and the sampling containers will be filled to the maximum extent possible to avoid air space.
- Homogenize sediment from each depth interval and transfer the sediment into appropriate sample containers using the decontaminated spoon.
- Store and document sample.
- Mark sampling location with a buoy, stake, or other indicator for subsequent surveying of sample locations.

Sampling equipment shall be decontaminated after the collection of each sample in accordance with the procedures outlined in Section 2.5. Record all appropriate data (including sampling location, sampling depth, time of sampling, and description of sample) in field logbook or the Sediment Sampling Log.

2.5 Equipment Decontamination

To minimize the chance of cross-contamination, the equipment used during the field investigation will be decontaminated in accordance with NJDEP guidelines (May 1992). The decontamination water will be collected and containerized in 55-gallon drums or in a larger portable storage tank or tote. The cleaning procedures described in the following sections will be used for the RI/FS. The equipment used to collect samples for laboratory analyses will be precleaned in a laboratory (e.g., sampling spoons, etc.) and dedicated for that sampling point. Whenever feasible, all field sampling equipment will be laboratory cleaned, wrapped, and dedicated to a particular sampling point. For this RI, stainless steel sampling spoons and trowels that are used to collect soil or sediment samples submitted for chemical analysis will be laboratory decontaminated whenever possible. Disposable Teflon bailers, if used to collect water samples (although not likely with the use of low-flow sampling techniques), will also be dedicated, vendor decontaminated, and wrapped in autoclaved aluminum foil. The field-cleaning of sampling equipment used to collect samples for analyses will be avoided to the extent possible.

The decontamination water will be sent for disposal in accordance with the analytical results of the waste characterization tests that will be performed at the end of the field investigation. If approved by the USEPA, the decontamination water will be treated at the Stormwater treatment unit located on site.

2.5.1 Large Equipment

Large equipment, such as backhoes, drill rigs, and ancillary equipment, will be decontaminated upon arrival at the site, between borings, and before demobilization. Decontamination will consist of a high pressure hot water or "steam" wash and brushing to remove encrusted material. Potable water obtained from fire

hydrants or a local source located near the site will be used. The drill rig equipment and tools used during these activities will be pressure cleaned after the completion of each soil boring to minimize the potential for cross-contamination.

2.5.2 Soil Sampling Equipment

Non-dedicated soil sampling equipment, with the exception of the Direct-push samplers, used for collecting samples for laboratory analysis (i.e., split-spoon samplers, specialized soil samplers, spoons, and scoops) will be decontaminated using the nine-step decontamination procedure as follows:

1. Alconox or low-sudsing detergent scrub and potable water wash
2. Generous tap water rinse in a second wash tub
3. Distilled and deionized (ASTM Type II) water rinse
4. Ten percent nitric acid rinse (only if sample is to be analyzed for metals)
5. Distilled and deionized (ASTM Type II) water rinse (only if sample is to be analyzed for metals)
6. Acetone (pesticide grade) rinse (only if sample is to be analyzed for organics)
7. Distilled and deionized (ASTM Type II) water rinse (only if sample is to be analyzed for organics)
8. Total air dry
9. Aluminum foil wrap equipment (if not reused immediately)

Soil sampling equipment used for stratigraphic soil sampling only (i.e., split-spoon samplers, Shelby tubes, and specialized soil samplers) will be decontaminated using the following procedure:

1. Alconox or low-sudsing detergent scrub and potable water wash
2. Generous tap water rinse in a second wash tub
3. Distilled and deionized (ASTM Type II) water rinse
4. Total air dry
5. Place equipment in aluminum foil or wrap in plastic (if not reused immediately)

Grossly contaminated soil sampling equipment will be decontaminated using the nine-step procedure described above.

2.5.3 Water Sampling Equipment

If field cleaning of aqueous sampling equipment is required, then the following nine-step decontamination procedure shall be used:

1. Alconox or low-sudsing detergent scrub and potable water wash
2. Generous tap water rinse in a second wash tub
3. Distilled and deionized (ASTM Type II) water rinse
4. Ten percent nitric acid rinse (only if sample is to be analyzed for metals)
5. Distilled and deionized (ASTM Type II) water rinse (only if sample is to be analyzed for metals)
6. Acetone (pesticide grade) rinse (only if sample is to be analyzed for organics)

7. Distilled and deionized (ASTM Type II) water rinse (only if sample is to be analyzed for organics)
8. Total air dry
9. Aluminum foil wrap equipment (if not reused immediately)

2.5.4 Monitoring Well Riser and Screen

Before installation, field cleaning of PVC well riser and screen will consist of a manual scrubbing to remove foreign material and steam cleaning, inside and out. The PVC riser and screen will then be handled and stored in such a manner so as to prevent cross-contamination prior to installation.

2.5.5 Pumps and Lines

Pumps and lines are the most difficult items to clean because they are awkward to handle in the field and require large volumes of cleaning agents. It is important that contaminants not be carried from well to well. If the wells are found to contain only "clear" water with no observable organic film or phase, decontamination will be accomplished between each well as described below. Grossly contaminated pumps will not be reused at the site and an alternate sampling approach for the well containing free product will be considered.

To decontaminate submersible pumps the coiled lines and pump will be drained of water as best as possible. The pump and lines will be placed in a large bucket and scrubbed with dilute non-phosphate detergent. The pump will then be placed in a plastic overpack drum or plastic garbage can (metal drums should be avoided if using electric pumps) and a minimum of 20 gallons of water will be flushed through it. After the flush, the outside of the pump will be rinsed with distilled and deionized water. Pump tubing cleaned in this manner will be used solely for well purging, not for sample collection.

Surface pumps (e.g., centrifugal, inertial lift, etc.) used at the site for well purging or well development will not require decontamination because dedicated tubing will be used together with a dedicated foot valve, to prevent backflow of water from the pump into the well.

2.6 Investigation-Derived Waste Handling

The disposal of wastes generated during the RI/FS, such as soil cuttings and groundwater development water, will follow the guidelines in the NJDEP Field Sampling Procedures Manual (NJDEP, 1992).

For monitoring well development and purge water, if there is no obvious contamination observed during drilling and well installation, if the development water does not have an observable sheen or odor, and if the PID readings of the water remain at background levels, the development/purge water will be discharged to the ground surface and allowed to percolate back to the groundwater system. In general, the water will be discharged to the ground upgradient of each monitoring well and not in areas where it may run off the site. If development/purgewater has signs of gross contamination, it will be collected in U.S. Department of Transportation (DOT) approved (or equivalent) 55-gallon drums and stored at the site staging area. These suspected fluids would be analyzed to determine their toxicity characteristics. After the analytical results are received, these fluids will be disposed of in accordance with applicable local, state, and federal regulations. USEPA will be informed before wastewater generated at the site is removed off site for disposal.

Other disposable materials such as personnel protective gear (e.g., gloves, Tyveks) will be collected in plastic bags or DOT-approved 55-gallon drums for subsequent disposal.

The unused shallow soil drill cuttings and soil samples will either be drummed for disposal (if visually grossly contaminated or exhibiting high field screening results), stockpiled at the staging area under tarps and plastic for later characterization (if samples appear uncontaminated), or saved and archived for soil description and stratigraphic identifications.

Containerized materials will be transported to the site storage area, placed on pallets, and the contents labeled with weather-resistant labels or markers on the drum exteriors. The field inspector will maintain a log of the drums, their contents, and associated analytical data.

The project consultant will coordinate disposal of investigation-derived waste with a disposal contractor. These materials will be handled, transported, and disposed of according to requirements mandated by applicable federal, state, and/or local hazardous waste regulations. The disposal of non-hazardous waste materials generated at the site will be the responsibility of the each subcontractor that generated that material (e.g., drilling and sampling disposables, grout bags, excess monitoring well materials, etc.).

2.6.1 Investigation-Derived Waste

Section 2.6.1 inserted from FOP Addendum No. 1 (Brown and Caldwell, October 2001)

A "mud" slurry will be generated when advancing the portion of the cased deep borings (Section 2.2.3.4) below the permanent casing using the water rotary method. This mud will consist of drill cuttings and fluids. The drilling waste will be contained during the drilling process (e.g., using a mud tub). Upon completion of the borehole, the drilling waste will be placed in DOT approved drums, pending characterization and appropriate disposal.

2.7 Surveying

A land survey will be performed by a New Jersey State licensed surveyor to horizontally and vertically locate the sampling points established during the RI (i.e., monitoring wells, soil borings, sediment sample locations, etc.). The inner casing (riser) of monitoring wells, as well as the ground elevation and elevation of the outer casing, will be surveyed for both horizontal and vertical control, to a degree of accuracy of 0.01 foot. The survey data will be referenced to the 1983 New Jersey State Coordinate System (North American Datum of 1983) and to the North American Vertical Datum of 1988.

2.8 Sample Handling

Numerous environmental samples will be collected during the RI/FS and submitted for laboratory analyses. The matrix of the samples will consist of soil, sediment, groundwater, and surface water. The requirements for sample containers, identification of samples and packaging and shipping of samples are described below.

2.8.1 Quality Control Samples

An important aspect of the field investigation is to document and preserve the quality of the analytical data that will be generated through sample collection and laboratory analyses. Therefore, field QA/QC samples will be collected at regular intervals during the sampling program to partly satisfy this objective. The QA/QC samples will be collected in such a way that a clear association between the environmental samples and the associated QA/QC sample is established. Field records of the association will be documented and maintained. Definitions, sampling requirements, and frequency of collection of the QA/QC samples are described below.

2.8.1.1 Field Blanks

A field blank is deionized water that is poured into or pumped through the dedicated or field decontaminated sampling device, transferred to the appropriate sample containers, and transported to the laboratory for analysis. Field blanks will be prepared on sampling equipment used to collect aqueous and soil samples. Sampling equipment for aqueous samples include tubing. Sampling equipment for soil samples include stainless steel trowels and split-spoons, but not EnCore™ samplers. Field blanks are not required for Encore™ samplers (USEPA Region II, personal communication to URS, Telecon November 1, 2000). The field blank samples will be analyzed for the same parameters as the samples being collected at the time of the preparation of the field blank, with the exception of VOCs that are associated with Encore™ sampling. At a minimum, one field blank sample will be prepared per matrix for each day that samples are collected, in accordance with the NJDEP guidelines (May 1992, February 1997).

2.8.1.2 Duplicate Samples

A duplicate sample is a second sample collected independently at the same location as the original sample during a single sampling event. Duplicate sample results are used to assess precision, including variability associated with both the laboratory analysis and the sample collection process. Duplicate samples are collected simultaneously or in immediate succession, using identical recovery techniques, and treated in an identical manner during storage, transportation, and analysis. Five percent of the samples collected shall be field duplicates (one duplicate for every 20 samples). Both the duplicate and the sample shall be analyzed for the same parameters in the laboratory.

The duplicate sample will be submitted to the laboratory without their knowledge of the sample designation (i.e., "blind" duplicate sample). The field logbook shall identify the duplicate sample locations. This information will not be indicated on the label, the chain-of-custody, or any other documents that accompany the sample to the laboratory so that the laboratory cannot establish the association of a duplicate sample.

2.8.1.3 Trip Blanks

This section describes the trip blank procedures for the collection and shipment of samples that are collected for the laboratory analysis of VOCs. Trip blanks will not be used if VOC samples are not collected on a given day.

For aqueous samples, a trip blank is a volatile sample vial filled in the laboratory with organic-free water (Type II, reagent grade water), transported to the site, handled like a sample, and returned to the laboratory for analysis. Trip blanks are used only for aqueous volatile samples and are subjected to the same handling as other samples. Trip blanks are not required for samples collected with EnCore™ sampler (USEPA, October 24, 2000). Trip blanks will be prepared and preserved with Hydrochloric Acid (HCl) to pH less than 2.0 by the laboratory and will arrive on site within one day of their preparation. Trip Blanks will not be held on site longer than two calendar days. Trip blanks will not be opened in the field. Trip blanks serve to identify contamination from sample containers or transportation and storage procedures. For every cooler containing water samples collected for VOC analysis, one trip blank will be added to the cooler and analyzed for the presence of VOCs.

2.8.1.4 Temperature Blank

A temperature blank will be used in each sample shuttle to measure the temperature of the samples upon shipment arrival to the laboratory. The temperature blank consists of a small vial filled with water. The vial will be labeled Region II Temperature Blank. If, upon arrival to the laboratory, the temperature of the blank is below 10 degrees Celsius, the samples will be accepted for analysis. If the temperature is at or greater than

10 degrees Celsius, the laboratory will notify the Project Manager or the designated Project Chemist immediately. The potential impacts to data usability of those samples will be discussed with the project chemist to decide whether or not additional samples would be required.

2.8.1.5 Matrix Spike and Matrix Spike Duplicate Samples

An aliquot of a matrix (water or soil) is fortified (spiked) with a known concentration of compounds of interest. The matrix spike and matrix spike duplicate (MS/MSD) are subjected to the entire analytical procedure in order to indicate both accuracy and precision of the method for the matrix by measuring the percent recovery and the relative percent difference (RPD) of the two spiked samples. These samples are used to assess matrix interference effects on the method, as well as to evaluate instrument performance. The MS/MSD data are used to evaluate the matrix effect, not to control the analytical process. MS/MSDs are analyzed for each matrix for every 20 environmental samples (five percent) or one per batch in order to maintain continuous surveillance of acceptable method performance. No extra field samples (just triple volume) are required for MS/MSDs.

2.8.2 Sample Container, Preservatives, and Holding Time Requirements

The selection of sample containers is based on both the media being sampled and the analytes of interest. The sample preservatives and laboratory holding times before analyses are also based on media and analytes of interest. The NJDEP four-day handling time requirement for laboratory blanks (NJDEP, 1992) will be adhered to during this investigation. In general, the minimum preservation requirement for any sample is to store it at 4 degrees Celsius immediately after collection. A temperature blank (a vial filled with clean water) will be included with each cooler so that the project laboratory can document compliance with the temperature-preservation requirements immediately upon receipt of the samples.

2.8.3 Sample Designation and Labeling

The following procedures will be used to identify and track environmental samples collected during the field investigation. An unremovable and waterproof label will be affixed to each sample container. The following information will be written on the label with permanent marker:

- Site name
- Sample identification
- Consultant Project number
- Date/time
- Sampler's initials
- Sample preservation
- Analysis required

Typically, a label is filled out with the above information, affixed to the bottle, and then covered with wide clear tape for additional protection against accidental erasure.

2.8.4 Field Sample Numbering

The groundwater, surface water, and sediment samples collected at the site will be assigned the following, relatively standard designations:

- MW-XXX for groundwater monitoring well samples
- SW-XXX for surface water samples
- SED-XXX for sediment samples

The "XXX" shown above represents a numerical suffix that will be assigned to each sample in consecutive order.

Soil samples will be assigned a designation based on the name of the area of concern that they are associated with. For example, a sample collected from the former Waste Water Treatment Unit will be designated WWT-XXX while a sample collected from the area of the Bullet Tanks will be designated BT-XXX.

Field QA/QC samples will consist of field blanks, trip blanks, blind duplicate samples, matrix spike samples and matrix spike duplicate samples. The following designations will be used to identify these samples following a "year (xx)-month (xx)-day (xx)" scheme:

- **FB01-000415:** First field blank prepared for the RI/FS on April 15, 2000.
- **TB02-001115:** Second trip blank used for the RI/FS on November 15, 2000.
- **DUP-1:** First blind duplicate sample of the RI/FS field investigation. The actual sample designation of the blind duplicate will be tracked by the field inspector through his or her field notes and recorded in the daily inspection report.

Matrix Spike and Matrix Spike Duplicate samples will be identified as needed by adding letters "MS" and "MSD", respectively to the end of the sample identification code (e.g., MW-1MS, MW-1MSD, etc.).

2.8.5 Sample Custody

At the time of the sampling, the field inspector will record the sample information in the field book and on a chain-of-custody form, noting on each any difficulties encountered in sampling. The label, logbook, and chain-of-custody form entries shall be made in waterproof ink. The sample information recorded in the logbooks should be at least as detailed as that recorded on labels, and should indicate the type of sample (e.g., groundwater, soil, waste, etc.), preservation technique, and sampling location, with sufficient detail as to allow resampling at the same location, if necessary.

Immediately after a sample is collected and transferred to the appropriate laboratory-supplied container, the field inspector will place the filled container in ice chests or coolers that contain ice for preservation. The field inspector will maintain custody of the samples until they are shipped or hand delivered to the laboratory. Samples submitted to the laboratory will be accompanied by a chain-of-custody form to provide documentation of the sampling event. These forms will be completed and sealed inside the cooler sent to the project laboratory. The following information will be included on the chain-of-custody form:

- Date and Time Sample was Collected
- Client or Consultant
- Project Name
- Sample Identification Kumber
- Sample Description
- Sample Container Numbers and Volumes
- Cooler Identification Number (if applicable) Analysis Required
- Preservatives (if applicable)
- Signatures of Persons Involved in Chain-of-Custody
- Date and Time of Possession
- Date and Time of Relinquishing Sample Custody

The entries on the chain-of-custody form will correspond to the field logbook and sample labels. Custody seals will be used to detect tampering with the samples before laboratory acceptance. Custody seals will be affixed to the cooler in a manner that requires seal breakage in order to open the cooler as discussed in Section 2.8.6. Unauthorized seal breakage indicates possible tampering and may render the analytical results of a sample suspect.

2.8.6 Sample Packaging and Shipping

This section describes the packaging and shipping procedures that will be used for the RI field samples.

2.8.6.1 Sample Packing

The samples collected for laboratory analysis will be shipped or hand delivered to the laboratory within 48 hours of the sample collection. Sample packaging and shipping procedures are summarized as follows:

1. Samples will be accompanied by a properly completed chain-of-custody form. The sample numbers and locations will be listed on the chain-of-custody form. When transferring the possession of samples, the individuals relinquishing and receiving will sign, date, and note the time on the record. This record documents transfer of custody of samples from the sampler to another person, to the laboratory, or to/from a secure storage area. Commercial, overnight carriers (e.g., Federal Express Corporation) will not be involved in the Chain-of-Custody procedures because the custody form will be sealed inside the cooler at the time of shipment. .
2. Samples will be properly packaged to avoid breakage, stored on ice at 4 degrees Celsius for shipment and dispatched to the appropriate laboratory for analysis. A separate signed custody record will be enclosed and secured to the inside top of each sample box or cooler. The chain-of-custody and any additional paperwork will be placed in a plastic "ziplock" bag to prevent them from getting wet.
3. Shipping containers will be secured with strapping tape and custody seals for delivery to the laboratory. The preferred procedure includes use of a custody seal attached to the front right and back left of the cooler. The custody seals are covered with clear plastic tape. The cooler is strapped shut with strapping tape in at least two locations.
4. Courier or overnight carrier will transport samples to the laboratory.

For this investigation, it is anticipated that the laboratory samples collected at the site will be hand delivered to the laboratory by courier.

2.8.6.2 Hazardous Sample Shipping

The DOT and the International Air Transport Association (1998) have promulgated regulations for the packaging and shipping of DOT-defined hazardous materials under 49 Code of Federal Regulations (CFR) Parts 171 through 179 and IATA-defined dangerous goods. The USEPA established three categories for samples:

- **LOW-Concentration Samples** - samples containing less than 10 ppm of any known contaminant. Examples include background soil, sediment, surface water, and groundwater samples that are collected from locations not expected to have been grossly impacted by or come in contact with hazardous materials. Low-concentration samples are considered environmental samples and are not regulated by the DOT or IATA since they do not pose a transportation hazard.
- **Medium-Concentration Samples** - samples containing greater than 10 ppm but less than 15 percent (150,000 ppm) of the contaminant of highest concentration. Special regulations govern the shipment of medium-concentration samples; the field inspector will contact the environmental consultant's project manager for further instructions if medium-concentration samples require shipment.
- **High-Concentration Samples** – samples containing greater than 15 percent of at least one contaminant. Special regulations govern the shipment of high-concentration samples; the field inspector will contact the environmental consultant's project manager for further instructions if high-concentration samples require shipment.

For this investigation, it is anticipated that the laboratory samples collected at the site will be low-concentration samples and that special shipping arrangements will not be required for the RI. The field inspector will notify the environmental consultant's project manager for instructions in the event that medium- or high-concentration samples are collected and require overnight shipment.

2.9 Field Measurements and Equipment Calibration

Electronic instruments that are anticipated to be used during this field investigation include the following equipment (or equivalent equipment):

- Photoionization detector (e.g., HNU PI-I01 with a 10.2 electron volt lamp)
- Flow-through water quality meter (e.g., YSI model 6820)
- Particulate dust monitor (e.g., MIE Miniram PDM-3)
- Water level indicator (e.g., Solinst water level meter)
- Slug test probes and data recorder (e.g., In-Situ, Inc. Hermit data logger and Pressure transducers)
- Mercury Vapor Analyzer (Jerome 431-X)

Quality assurance requires that the devices and equipment used to perform field testing or data recording be calibrated before use. Calibration documentation will include identification of the instrument, serial number, date, reference standard, adjustments or repairs made, and the signature of the person performing the calibration. The calibration data will be recorded in the project field book or in an appropriate field calibration log. The calibration procedures will follow the manufacturer's guidance.

On-site field calibration activities include the use of calibration standards and field equipment checks, as appropriate, for the equipment being used. Field calibration and/or field checking of each meter will be accomplished by following the procedures outlined in the operating manual for the instrument. At a minimum, field calibration and/or field equipment checking will be performed both prior to and after equipment use. Field calibration will be documented in the field notebook.

Equipment that fails calibration or becomes inoperable during use will be removed from service and segregated to prevent inadvertent utilization. The equipment will be properly tagged to indicate that it is out of calibration. Such equipment will be repaired and recalibrated to approved standards by qualified personnel. Equipment that cannot be repaired will be replaced.

Results of activities performed using field equipment that has failed recalibration will be evaluated by the environmental consultant's Project Manager or his/her designee. If the activity results are adversely affected, the results of the evaluation will be documented, appropriate personnel notified, and a decision made of the validity of the results.

Off-site calibration and maintenance of field instruments will be the responsibility of the owners of their respective instruments (i.e., subcontractors, the USEPA, or any group working on site) and will be performed by the owners as appropriate throughout the duration of project activities. The field instrumentation, sampling equipment, and accessories will be maintained in accordance with the manufacturer's recommendations and specifications and established field equipment practice. Off-site calibration and maintenance will be performed by qualified personnel. A logbook will be kept to document that established calibration and maintenance procedures have been followed. Documentation will include both scheduled maintenance and unscheduled maintenance.

2.10 Field Documentation

The details of field investigations will be recorded in a waterproof field book. The project field book will be a controlled, formal document that will record the events of the field investigation. Ancillary field data may be recorded on field logs specific to a given task. The subsurface borings will be logged on a Soil Boring Log, monitoring well construction will be logged on a Monitoring Well Construction Log, and purging and development of wells will be logged on Well Development/Purging Log. Soil boring logs will include descriptions of subsurface material encountered during drilling, sample numbers, types of samples recovered from the borehole, water elevation data, and PID/MVA (headspace and sample screening) information.

2.10.1 Field Book and Field Logs

They following types of information will be recorded in the field book:

1. Location of sample
2. Date and time of sample collection
3. Identity of people performing activities
4. Weather conditions
5. Boring identification
6. Location of borings in relation to easily identifiable landmark
7. Sampling intervals
8. Blow counts

9. Sample descriptions (Based upon USCS)
10. Identity and calibration of field instruments
11. Depth at which saturated conditions were encountered
12. Field instrument readings, background, borehole, and samples
13. Drilling method
14. Size of downhole equipment
15. Drilling rates
16. Materials used to backfill the boreholes and quantities
17. Personnel present on site
18. Visitors to the site
19. Chronology of daily events
20. Level of personnel protection
21. Field problems, solutions, and corrective actions

The field inspector, or person making entries on a given day, will date and sign each completed page of the project field book. The field book will be completed using indelible, water proof ink. The pages of the field book will be consecutively numbered and the pages will not be removed.

If changes in the field book are necessary, changes will be indicated by a single line drawn through the affected text. The individual responsible for the change will initial and date the entry. Each day's activities or separate sampling episodes will be signed. The logbook will be protected, stored in a safe file or other repository, and retained as a permanent record.

Upon completion of daily field activities, the field inspector will complete a daily inspection record form and initiate chain-of-custody on any samples collected for geotechnical or chemical laboratory testing. After the RI drilling program, the field team will transfer information from the field logs onto standard boring log forms for the Remedial Investigation Report. The field notes will be kept in the project files.

The following types of logs, forms, and field books will be used to document activities during the field investigation.

1. **Field Book** - weatherproof bound field book
2. **Daily Inspection Record** - will be filled out by the field inspector to provide a daily chronology of site events
3. **Soil Boring Log** - one log will be completed for each boring advanced at the site
4. **Monitoring Well Construction Log** - one log will be completed for each monitoring well installed at the site
5. **Well Development/Purging Log** - one log will be completed for each well developed or purged at the site
6. **Well Sampling Form** - one form will be completed for each monitoring well sampled at the site
7. **Surface Soil Sampling Log** - will record the location and physical description of the soil sample
8. **Surface Water/Sediment Sampling Log** - will record the location and description of the surface water and sediment sample
9. **Equipment Calibration Log** - will document the calibration of a given measuring instrument
10. **Log of Photographs** - will provide a description of photographs taken at the site

11. **Slug Test Data Sheet** - will record the data generated during a slug test
12. **Chain-of-Custody Form** - will accompany each set of coolers sent to the project laboratory on a given day
13. **Water Level Log** - the water level in each well will be recorded on these sheets.

The field book and field logs will provide QA/QC documentation for the general adherence to the sampling and data collection procedures established for the LCP Chemicals, Inc. RI and will also serve to document deviations from the anticipated scope of work. This information will be used for the Data Usability Summary report discussed in Section 14.0 of the RI/FS QAPP.

2.10.2 Photographic Documentation

Pertinent field activities and sample locations may be documented with photographs, subject to approval by ISP Environmental Services, Inc. The picture number and roll number will be logged in the field book to identify the area and activity depicted in the photograph. A separate photographic documentation log form will be maintained by the Site Manager or designee. The log of photographs will include the date, the roll number, the picture number and a description of the area and activity depicted in the photograph. For cameras that use film, this information, exclusive of the description, will also be recorded on the back of each photograph and the photographs will be stored in the project file. For digital cameras, the photographic image will be stored in the project consultant's project computer directory and backed up during routine maintenance of their computer network system.

Videotape recording cameras may also be used during some field activities to provide an additional type of documentation. Videotapes will be labeled with pertinent project information and stored in the project file.

2.11 Soil Vapor Sample Collection

Section 2.11 inserted from FOP Addendum No. 4 (Brown and Caldwell, October 2006)

Note: The soil vapor sampling that was performed in May and June 2007 also followed the guidance contained in the NJDEP Vapor Intrusion Guidance, (March 2007).

Soil vapor (SV) samples will be collected from material above the water table at locations throughout the Site Work Plan Phase II Remedial Investigation LCP Chemicals Inc. Superfund Site) following the procedure outlined below:

2.11.1 Installation of Soil Vapor Probes

Soil vapor probes will be installed from which soil vapor samples will be collected. The soil vapor probes will installed as follows:

- A direct-push drill rig (e.g., GeoProbe®) will be used to advance a 2-inch soil -core sampler 5 feet into the subsurface immediately adjacent to selected proposed soil vapor probe location to observe the depth to the water table near the soil vapor sampling locations. This information will be used to select the depth to which the sample screens will be set at the surrounding sample points.
- Once the local depth to the water table is determined a 2-inch diameter borehole will be advanced using the direct-push rig to just above the water table.

- Once the borehole is complete a 1-inch diameter PVC slotted screen 0.010" will be set in the borehole with clean silica sand filter pack material placed in the annulus surrounding the screen. The length of screen used at the sample locations will depend on the depth of the water table, but is generally assumed to be between 3 and 5 feet across the Site.
- A hydrated bentonite slurry will be placed in the annular space above the filter pack to provide a seal in the borehole from surface contamination and to minimize infiltration of ambient air.
- The top of the soil vapor probe will be completed with a male-threaded, appropriately sized tubing-barb to be used with the sampling tubing. No organic thread lubricant of any kind will be used when constructing this to minimize the chance of sample contamination. The barb will be completed with a cap so that infiltration by outside air will be minimized.
- Upon completion of soil vapor sampling, described below in Section 2.11.2, the soil vapor probes will be abandoned by pulling the temporary well screen out of the ground and backfilling the borehole with a hydrated bentonite slurry.

2.11.2 Collection of Soil Vapor Samples

Soil vapor samples will be collected no less than two weeks following the installation of the soil vapor probes. Samples will not be collected on days in which high humidity or rainfall may impact the readings from the field monitoring equipment.

- One (1) Teflon®-lined polyethylene sampling tube will be connected to the tubing-barb for use in sampling. The tube will be secured to not allow debris to clog the tube and/or potentially contaminate the sample.
- Prior to Sampling for VOCs (USEPA Method TO-15), the sampling probe will be purged for approximately 10 minutes. This is intended to exchange air from the sampling tubing, which could potentially dilute or otherwise bias the sample.
- After purging, the tubing will be attached to a one-liter SUMMA canister provided by the analytical laboratory. The canister will have been evacuated by the laboratory prior to shipment to the site. After the canister is attached to the tubing, the canister valve is opened, and the vacuum in the canister causes the soil gas to flow into the canister. The canister will be allowed to fill for approximately one (1) hour. The vacuum pressure in the canister will be checked at the conclusion of sampling with a pressure gauge to confirm that sample collection was complete. A vacuum pressure reading of -5 Hg indicates that the canister is filled and under some pressure to better allow the lab to extract the sample.
- After the SUMMA canister is filled, a reading will be taken with the mercury vapor analyzer to measure mercury vapors. At locations with mercury below the detection capability of the meter, selected samples will be analyzed by Method IO-5 to quantify the lower levels.
- To collect a sample for laboratory analysis for total mercury by IO-5, gold-coated bead traps are used with a Teflon particulate filter before the trap so that no particulate can be trapped and skew results. When assembling, installing and removing the traps particle-free gloves will be worn at all times and samplers will stand down-wind to prevent contamination by shedding particles from clothing, etc.
- The trap with filter will be connected to a pump which will draw air through the trap at a constant rate of 0.3 L/min. The calibrated range of the method is 5 ng to approximately 7.5 mg depending on the variety of trap used in sampling. Therefore, to target the method range, the pumping duration will likely be the minimum practical.
- The samples will be sent to a specialized mercury laboratory for analysis.

2.12 Biota Sampling

Section 2.12 inserted from FOP Addendum No. 5 (Brown and Caldwell, October 2006)

2.12.1 Sampling Timeline

Mummichog and fiddler crabs will be collected during the biologically active season which in Linden, New Jersey, typically spans from May through September. The samples will be collected during a single sampling event as defined below for each species. It should be noted that if the target mass for laboratory analyses is not met during the time frames provided for each species then analyses will be prioritized as provided in this document.

2.12.2 Sample Locations

Six biota sampling transects will be established that coincide with sediment and surface water sampling transects Work Plan, October 2006). A single mummichog sampling station will be located at the center of each transect. Crab sampling stations will be located along both of the creek banks at each transect.

Each transect will be identified by inserting metal poles into the bank at each end of the transect. The poles will be labeled using metal tags. The horizontal locations of the transect termini will be surveyed by a licensed surveyor to the New Jersey State Plane Grid (NAD 1983). The locations of the individual sampling locations will be referenced by the field sampling personnel to the applicable transect stakes from which the coordinates of the field samples will be determined. Alternatively, the sample locations will be identified using a GPS instrument (e.g., Trimble GeoXT or equivalent).

2.12.3 Mummichog Samples

Mummichog samples will be collected from the approximate channel center at each transect. These fish will be collected utilizing either minnow traps or a seine net. The specific method to be used will depend upon site conditions and the technique's overall capture effectiveness (i.e., number of fish caught). The specific protocol to be used for each of these techniques is provided below.

Minnow Traps

Traps will typically consist of standard 17 x 9-inch cylindrical galvanized wire enclosures with an inverted funnel at each end and a mesh size of ¼ inch, or equivalent. The traps will be decontaminated prior to each use (see below) and baited. One trap will be utilized per transect. Traps will be deployed during high tide. Each trap will be handled wearing a clean pair of Nitrile gloves.

Seining

Seining may also be used to obtain mummichog samples. This technique will utilize a stationary net located approximately 10 feet downstream of the center of the transect. A mobile seine located approximately 10 feet upstream of the centerline of the transect will then move towards the stationary seine. One end of the mobile seine will be held by a biologist in a boat, while the other end will be held by personnel walking along the bank of South Branch Creek. The mobile seine will herd the fish towards the stationary seine where they will then be collected by personnel in the boat using 16 x 12 x 16-inch dip nets, or equivalent. The seines will be 20 x 4 feet with a mesh size of 3/16 inch, or equivalent. Seining will be conducted during high tide or at period when the tide is in flux (e.g., incoming or outgoing tide).

In the event that neither method yields sufficient tissue, one additional collection attempt will be made during a subsequent tidal cycle. If two tidal cycles do not provide sufficient mass for all analyses, analyses will be prioritized, as described in Section 2.12.5.

Mummichog Sample Processing

Upon collection, the fish will be identified as to species. Only mummichog will be collected; other species will be returned to South Branch Creek. The mummichog will then be rinsed in a bucket containing ambient water to remove excess sediment. The length of each individual mummichog will be measured and recorded. In addition, the mass of a representative size range of mummichog in each sample will be measured and recorded. New, disposable Nitrile or latex gloves will be worn during fish collection and processing, and new gloves will be used at each sampling station.

As mummichog are small fish (i.e., generally less than 8 cm in length), whole-fish composite samples will be utilized to provide the mass necessary for the analysis of the target analytes. The USEPA recommends that composite samples consist of similarly-sized individuals so that the smallest individual in the composite is no less than 75% of the size of the largest.[3] However, if sample mass becomes a limiting factor, or if the size range encountered in the field makes the size distinction impractical, all individuals collected will be included in the sample. The mass required for analysis is determined by the laboratory and is presented in the Quality Assurance Project Plan (QAPP) Addendum (to be submitted under separate cover). Once the necessary mass for the sample is obtained, the fish will be placed on a decontaminated surface, transferred to Ziploc™ bags, labeled, and shipped on ice to the laboratory.

A replicate sample will be collected if sufficient mass of fish is obtained. The replicate sample will provide back-up against the loss of data if the original sample is compromised in some manner (e.g., lost in transit, broken container) and provide additional sample to allow for re-analysis or analysis of additional analytes. The replicate sample will be processed in a manner identical to the original sample and then maintained in a freezer on site or at the laboratory at a temperature less than -18°C.

2.12.4 Fiddler Crab Samples

Fiddler crabs samples will be collected from the intertidal zone along the northern and southern banks at each transect (i.e., 12 total samples). Each crab sampling station will encompass a zone extending approximately 25 feet upstream or downstream from the centerline of the transect. Crabs will be collected using either traps or by hand. The specific method to be utilized will depend on its capture effectiveness (i.e. number of crabs caught in each trap).

Fiddler Crab Traps

Folding commercial 30 x 10-inch crab traps, or equivalent, will be lined with fiberglass window screen to prevent the fiddler crabs from escaping and from predation. One trap will be deployed at each sampling location (i.e., 2 traps per transect) during low tide and retrieved prior to the next incoming tide.

[3] Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories, Volume 1: Fish Sampling and Analysis, Second Edition. USEPA. 1995.

Hand Capture

Crabs can also be collected by hand using a trowel, shovel, or other digging device. During low tide, crabs will be chased into their burrows by walking towards them. Once in their burrows, the crabs will be excavated using the hand tools and collected by hand.

Sampling at a reasonable level of effort (e.g., two sampling crews) will continue as necessary over a period of one week. If, after that time, neither capture method results in collection of sufficient mass for all analyses at all 12 stations, analyses will be prioritized, as described in Section 2.12.5.

Crab Sample Processing

Crabs will be handled wearing new disposable Nitrile or latex gloves. Upon collection, crabs will be placed in a bucket containing ambient water to remove excess sediment. The mass of each individual fiddler crab will be measured and recorded. On addition, the length and width of a representative size range of crabs in each sample will be measured and recorded. Preference will be given to the collection of adult crabs (carapace ¾ to 1 inch in length); however, if necessary, smaller individuals will be collected to achieve the target weight for analysis. The mass required for analysis is determined by the laboratory and is presented in the Quality Assurance Project Plan (QAPP) Addendum. As with mummichog, whole crab composite samples will be collected. Crabs will be placed in Ziploc™ bags, labeled, and shipped on ice to the laboratory. If a sufficient mass of crabs is collected to allow for a replicate sample, this sample will be processed in a manner identical to the original sample and then kept frozen for contingency use, as described for mummichog.

2.12.5 Laboratory Analysis

The mummichog and fiddler crab samples will be tested for the analytical constituents as described in the Phase II Work Plan and QAPP Addenda.

In the event that sufficient mass is not obtained to complete all analyses, analyses will be performed in the following order of preference (as applicable):

1. Mercury
2. Methyl mercury
3. Other Target Analyte List (TAL) analytes
4. Arsenobetaine (fish)
5. PCBs
6. Additional parameters, as applicable

2.12.6 Decontamination

Reusable sampling equipment (i.e., scale, measuring board, buckets, nets) will be decontaminated before each sample is processed. Decontamination will consist of the following sequence: rinse with tap water, wash with a detergent solution (i.e., Alconox), rinse with tap water, and rinse with deionized water. Work surfaces will be cleaned with a detergent solution and rinsed with tap and deionized water between samples. Alternatively, the work surface may be lined with new aluminum foil before each sample is processed.

2.12.7 Field Data Records

The following information will be included on the field data sheet for each sample collected:

- Project Name
- Date
- Field personnel present
- Transect Number
- Sampling Station
- Approximate tidal stage
- Pertinent meteorological information, e.g., temperature, wind direction, and precipitation
- Sampling technique
- Species
- Mass of individual specimen.
- Lengths and widths of a representative size range of specimens in each sample
- Noticeable abnormality in appearance and/or behavior
- Field observations
- Health and safety protocols, (e.g., level of protection)
- Work Performed
- Deviations from established protocols, if any

Upon return to the office, photocopies shall be made of all field logbook pages and placed in the site file. This will ensure a record exists in the office of all field and sampling activities, and limits the potential loss of field notes due to the loss or destruction of the log book in the field.

2.12.8 Permits

The collection of all fish and crab samples will be in accordance with state regulations. A Permit to Collect Marine and Estuarine Organisms for Scientific Purposes from the Division of Fish and Wildlife of the New Jersey Department of Environmental Protection (NJDEP) has been applied for. This permit is not strictly required under CERCLA but has been requested for NJDEP records. It is anticipated that this permit will be received prior to the commencement of sampling activities.

3. REFERENCES

ASTM (American Society for Testing and Materials) D422-63 (1998), Standard Test Method for Particle-Size Analysis of Soils.

ASTM (American Society for Testing and Materials) D1586-99, Standard Test Method for Penetration Test and Split-Barrel Sampling of Soils.

ASTM D2487-98, Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System).

ASTM D2488-93, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).

ASTM 04822-88 (1999), Standard Guide for Selection of Methods of Particle Size Analysis of Fluvial Sediments (Manual Methods).

Bouwer, H., 1989, The Bouwer and Rice Slug Test - An Update, Groundwater, 27:304-309. Bouwer, H. and Rice, R.C., 1976, A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells, Water Resources Research, Vol. 12, No. 3.

Brown and Caldwell, October 12, 2001. "Addendum No. 1, Field Operations Plan for the LCP Chemicals, Inc. Superfund Site, Cased Deep Borings".

Brown and Caldwell, November, 2001. "Addendum No. 2, Field Operations Plan for the LCP Chemicals, Inc., Superfund Site, Subsurface Utility Clearance".

Brown and Caldwell, March 2002. "Addendum No. 3, Field Operations Plan for the LCP Chemicals, Inc. Superfund Site, Sampling Beneath Buildings 230 and 240".

Brown and Caldwell, April 2006, Revised October 2006. "Addendum No. 4, Field Operations Plan, LCP Chemicals, Inc. Superfund Site (Bedrock Monitoring Wells, Soil Vapor Testing, Groundwater Sampling)".

Brown and Caldwell, August 2006, Revised October 2006. "Addendum No. 5, Field Operations Plan for the LCP Chemicals, Inc. Superfund Site, Ecological Sampling".

Eder Associates, January 1992 (and November 1992 -text only), Description of Current Site Conditions, RCRA Facility Investigation Task I, LCP Chemical - New Jersey, Inc., Linden, NJ.

En Novative Technologies, Inc., January 2001 [on line], EnCore sampler, Available http://www.ennovativetech.com/, [accessed February 20011.

Federal Register, October 1, 1998, updated March 2000, Hazardous Materials Regulations, Code of Federal Regulations, 49 CFR Parts 172 through 179, Transportation.

Geraghty & Miller, February 1982, Waste Lagoon Groundwater Monitoring Report, LCP Chemicals, New Jersey, Inc., Linden, NJ.

IATA - International Air Transport Association, 2000, Dangerous Goods Regulations. 41st edition. Montreal; Geneva: IATA.

Kahn, L., 1988, Determination of Total Organic Carbon in Sediment, US. Environmental Protection Agency, Region II, Environmental Services Division, Monitoring Management Branch, Edison, NJ.

Long, E.R., and Morgan, L.G., 1990, The Potential for Biological Effects of Sediment-Sorbed Contaminants Tested in the National Status and Trends Program: Seattle, Washington, National Oceanic and Atmospheric Administration, NOAA Technical Memorandum NOS OMA 52, 175 p.

New Jersey Administrative Code, January 5, 1998, Chapter 7:9-9, Water Pollution Control, Sealing of Observation Wells.

New Jersey Administrative Code, Revised July 2, 1999, Chapter 7:26E, Technical Requirements for Site Remediation.

New Jersey Department of Environmental Protection, July 1994, Field Analysis Manual.

New Jersey Department of Environmental Protection, July 1994, Alternative Ground Water Sampling Techniques Guide.

New Jersey Department of Environmental Protection, February 1997, Methodology for the Field Extraction/Preservation of Soil Samples with Methanol for Volatile Organic Compounds.

New Jersey Department of Environmental Protection, Revised August 2005, Field Sampling Procedures Manual.

NJDEP, March 2007, Vapor Intrusion Guidance.

Puls, R.W., and Barcelona M.J., 1996, USEPA Ground Water Issue, Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures, USEPA/5401S-951504.

Serfes, M.E., July-August 1991, Determining the Mean Hydraulic Gradient of Ground Water Affected by Tidal Fluctuations, Ground Water, Val. 29, No. 4, pp. 549-555.

URS Corporation, August 14, 2000, Work Plan, Interim Removal Action (IRA), for LCP Chemicals, Inc. Superfund Site, Linden, New Jersey.

URS, April 12, 2001. "Final Sampling and Analysis Plan, Field Operations Plan, Part I, Draft Sampling and Analysis Plan"

U.S. Environmental Protection Agency, 1987, A Compendium of Superfund Field Operations Methods, EPN540iP-871001, OSWER Directive 9283.1-2.

U.S. Environmental Protection Agency, October 1988, Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA, Interim Final, USEPA 540 G-89 004, OSWER Directive 9355.3-01.

U.S. Environmental Protection Agency, October 1989, Region II CERCLA Quality Assurance Manual, Final Copy, Revision 1.

U.S. Environmental Protection Agency, November 1992, RCRA Ground-Water Monitoring: Draft Technical Guidance, Office of Solid Waste, U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, D.C., 20460.

U.S. Environmental Protection Agency, Region II, March 16, 1998, Ground Water Sampling Procedure, Low Stress (Low Flow) Purging and Sampling, GW Sampling SOP, Final.

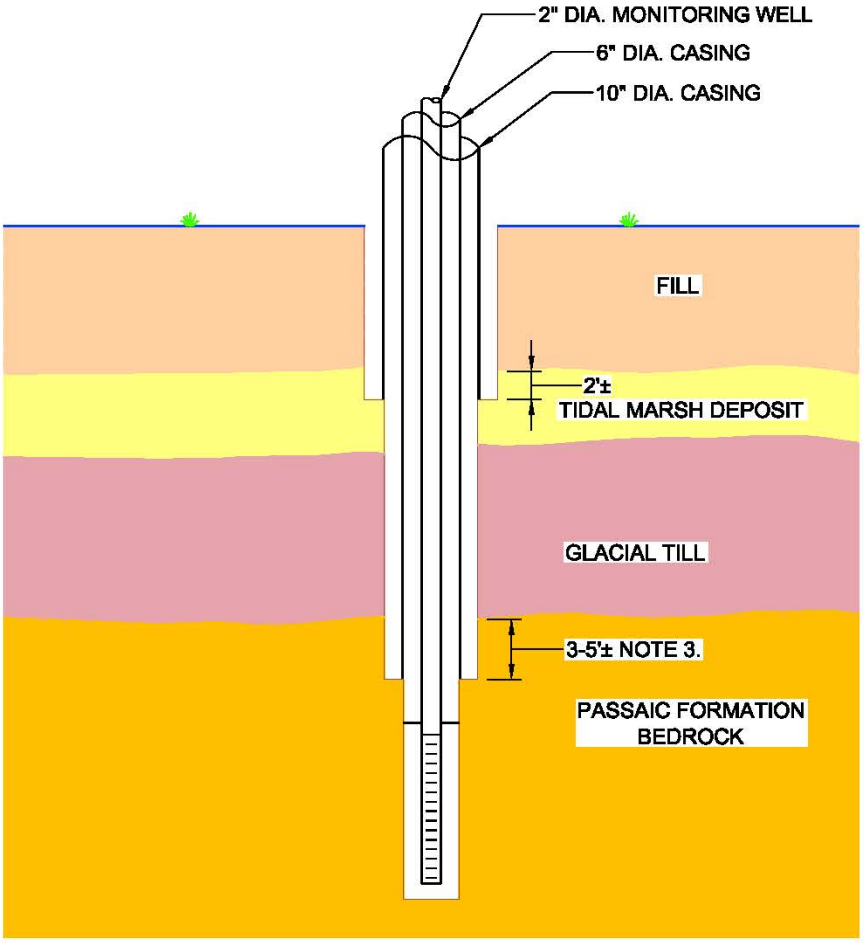
U.S. Environmental Protection Agency, October 24, 2000, Letter to ISP re: Approval of the Final WFS Work Plan, and Comments on the Draft RI/FS Field Operations Plan (Parts I and II) for the LCP Chemicals, Inc. Site, Linden, New Jersey, with Draft USEPA EnCore Sampling Procedures attached.

U.S. Geological Survey, 1966, Photo revised 1981, Arthur Kill, N.Y.-N.J. Quadrangle, Scale 1:24000.

Varljen M.D, Barcelona M.J, Obereiner J and Kaminski D, 2006. Numerical simulations to assess the monitoring zone achieved during lowflow purging and sampling. Ground Water Monitoring & Remediation 26 (1), 44-52.

FIGURES

TRIPLE-CASED WELL



SCALE: NONE

NOTES:

1. NOMINAL ANNULAR SPACE AROUND EACH CASING IS 2".
2. ANNULAR SPACE IS FILLED WITH TREMIE-EMPLACED GROUT.
3. THE BEDROCK CASING SOCKET DEPTH CONFLICTS WITH THE NJ CONSTRUCTION STANDARDS THAT REQUIRE A MINIMUM DEPTH BEDROCK CASING SOCKET OF 10' [N.J.A.C. 7:9D(b)1.]. ACCORDINGLY, WRITTEN AUTHORIZATION FOR THE WELL CONSTRUCTION DEVIATION WILL BE REQUIRED TO BE OBTAINED FROM NJDEP BUREAU OF WATER ALLOCATION IN ACCORDANCE WITH N.J.A.C. 7:9D-2.8 PRIOR TO COMMENCING DRILLING.

FIGURE 1

TYPICAL MULTIPLE-CASED BEDROCK WELL INSTALLATIONS

PROJECT LOCATION	DATE	PROJECT NUMBER
LCP CHEMICALS, INC. ROAD TO GRASSELLI LINDEN, NEW JERSEY	SEPT, 2006	127806.202

BROWN AND CALDWELL
ALLENDALE, NEW JERSEY
N.J. C.A. 24GA28043100

P:\DRAFTING\LCP\127806\202\FIGURE 1_TRIPLE-CASED.DWG 09/13/2006 10:44:33AM By:ROleinyk XREFS: Layout: 8.5x11

Appendix C: Well Construction and Soil Boring Logs

C-1 – RI Field Investigation
C-2 – Previous Investigations
C-3 Off-Site Ditch Logs

Brown AND Caldwell

Appendix C-1: RI Field Investigation

Brown AND Caldwell

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-10

Project: *LCP Superfund Site, Linden, NJ*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/15/01*
Finish Date: *11/15/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger rig (CME 75)*
Method: *Hollow Stem Augers*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*PVC*
Diameter (ID):	*2"*	*2"*
Coupling:	*Flush*	*Flush*

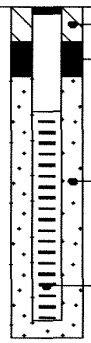
WELL DEVELOPMENT

Method: *Whale Super Purger*
Duration: *68 min.*
Gals. Purged: *75*
Slug Test: *0.01826* (cm/sec)

SURVEY DATA DATUM:

Grade: *8.22*
TWC: *Na*
TPC: *7.81*
North: *646536.58*
East: *572581.53*

Geophysical Log: ☐ yes ☒ no
Comments:

Depth (feet)	WELL CONSTRUCTION	soil / rock	Samp. No. / Run No.	Blows/ 6 in. / Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)	VISUAL CLASSIFICATION	REMARKS
0	 Cement / Bentonite Grout; Bentonite							FILL	Notes: 1. Well construction depths and grade measured from ground surface at time of drilling. Grades may have been changed subsequent to well installation
5	Filter Sand (No. 1); 2" PVC screen (0.010" slot)								
10								TIDAL MARSH DEPOSIT @ 9' Peat	2. Well Installed immediately adjacent to boring LP-4
15									
20									
25									
30									

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-11

Project: *LCP Superfund Site, Linden, NJ*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/16/01*
Finish Date: *11/16/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger Rig (CME 75)*
Method: *Hollow Stem Augers*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*PVC*
Diameter (ID):	*2"*	*2"*
Coupling:	*Flush*	*Flush*

WELL DEVELOPMENT

Method: *Whale Super Purger*
Duration: *42 min.*
Gals. Purged: *37.5*
Slug Test: *0.003843* (cm/sec)

SURVEY DATA DATUM:

Grade: *7.99*
TWC: *NA*
TPC: *10.70*
North: *646451.79*
East: *572441.08*

Geophysical Log: ☐ yes ☒ no
Comments:

Depth (feet)	WELL CONSTRUCTION	soil / rock	Samp. No. / Run No.	Blows/ 6 in.	Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)	VISUAL CLASSIFICATION	REMARKS
0	Cement / Bentonite Grout; Bentonite; Filter Sand (No. 1); 2" PVC screen (0.010" slot)								FILL	Notes: 1. Well construction depths and grade were measured from ground surface at the time of drilling. Grades may bave been changed subsequent to well installation.
5										
									TIDAL MARSH DEPOSIT @ 7.5' Peat	
10										Well installed immediately adjacent to boring 231-B8.
15										
20										
25										
30										

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-12

Project: *LCP Superfund Site, Linden, NJ*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/20/01*
Finish Date: *11/20/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger Rig (CME 75)*
Method: *Hollow Stem Augers*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*PVC*
Diameter (ID):	*2"*	*2"*
Coupling:	*Flush*	*Flush*

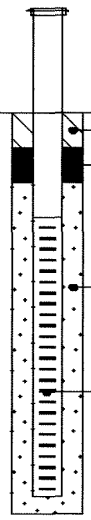
WELL DEVELOPMENT

Method: *Whale Super Purger*
Duration: *34 min.*
Gals. Purged: *80*
Slug Test: *0.007658* (cm/sec)

SURVEY DATA DATUM:

Grade: *8.36*
TWC: *NA*
TPC: *11.21*
North: *646332.10*
East: *572454.67*

Geophysical Log: ☐ yes ☒ no
Comments:

Depth (feet)	WELL CONSTRUCTION	soil / rock	Samp. No. / Run No.	Blows/ 6 in. / Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)	VISUAL CLASSIFICATION	REMARKS
0	 Cement / Bentonite Grout; Bentonite							FILL	Notes: 1. Well construction depths and grade were measured from ground surface at the time of drilling. Grades may have been changed subsequent to well installation. 2. Well installed immediately adjacent to boring 5K-B2.
5	Filter Sand (No. 1)								
10	2" PVC screen (0.010" slot)							TIDAL MARSH DEPOSIT @ 10.7' Peat	
15									
20									
25									
30									

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-13

Project: *LCP Superfund Site, Linden, NJ*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/15/01*
Finish Date: *11/15/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger Rig (CME 75)*
Method: *Hollow Stem augers*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*PVC*
Diameter (ID):	*2"*	*2"*
Coupling:	*Flush*	*Flush*

WELL DEVELOPMENT

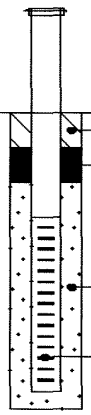
Method: *Whale Super Purger*
Duration: *40 min.*
Gals. Purged: *90*
Slug Test: *0.007962* (cm/sec)

SURVEY DATA DATUM:

Grade: *7.81*
TWC: *NA*
TPC: *10.17*
North: *646301.84*
East: *572342.84*

Geophysical Log: ☐ yes ☒ no
Comments:

WELL CONSTRUCTION



SAMPLE DATA

Depth (feet)	soil / rock	Samp. No. / Run No.	Blows/ 6 in.	Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)	VISUAL CLASSIFICATION	REMARKS
0								FILL	Notes: 1. Well construction depths and grade measured from ground surface at time of drilling. Grades may have been changes subsequent to well installation. 2. Well installed immediately adjacent to boring LP-4.
5									
								TIDAL MARSH DEPOSIT @ 7.5' Peat	
10									
15									
20									
25									
30									

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-14

Project: *LCP Superfund Site, Linden, NJ*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/19/01*
Finish Date: *11/19/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Drilling*
Equipment: *Auger Rig (CME 75)*
Method: *Hollow Stem Augers*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split Spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*PVC*
Diameter (ID):	*2"*	*2"*
Coupling:	*Flush*	*Flush*

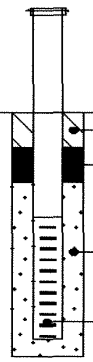
WELL DEVELOPMENT

Method: *Whale Super Purger*
Duration: *35 min.*
Gals. Purged: *37.5*
Slug Test: *0.006717* (cm/sec)

SURVEY DATA DATUM:

Grade: *7.93*
TWC: *NA*
TPC: *10.79*
North: *646404.19*
East: *571992.79*

Geophysical Log: ☐ yes ☒ no
Comments:

Depth (feet)	WELL CONSTRUCTION	soil / rock	Samp. No. / Run No.	Blows/ 6 in.	Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)	VISUAL CLASSIFICATION	REMARKS
0	 Cement / Bentonite Grout; Bentonite; Filter Sand (No. 1); 2" PVC screen (0.010" slot)								FILL	Notes 1. Well construction depths and grade measured from ground surface at time of drilling. Grades may have been changed subsequent to well installation. 2. Well installed immediately adjacent to boring DSP-4.
5									TIDAL MARSH DEPOSIT @ 8.5' Peat	
10										
15										
20										
25										
30										

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-15

Project: *LCP Superfund Site, Linden, NJ*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/14/01*
Finish Date: *11/14/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger Rig (CME 75)*
Method: *Hollow Stem Augers*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split Spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*PVC*
Diameter (ID):	*2"*	*2"*
Coupling:	*Flush*	*Flush*

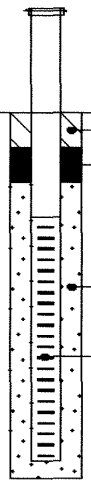
WELL DEVELOPMENT

Method: *Bailer*
Duration: *6 hours*
Gals. Purged: *4.3*
Slug Test: *5.602 E-07* (cm/sec)

SURVEY DATA DATUM:

Grade: *7.99*
TWC: *NA*
TPC: *11.10*
North: *646617.04*
East: *572121.23*

Geophysical Log: ☐ yes ☒ no
Comments:

Depth (feet)	WELL CONSTRUCTION	soil / rock	Samp. No. / Run No.	Blows/ 6 in. / Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)	VISUAL CLASSIFICATION	REMARKS
0	 Cement / Bentonite Grout; Bentonite							FILL	Notes: 1. Well construction depths and grade measured from ground surface at time of drilling. Grades may have been changes subsequent to well installation.
5	Filter Sand (No. 1); 2" PVC screen (0.010" slot)								
10								TIDAL MARSH DEPOSIT @ 9.5' Peat	
15									
20									
25									
30									

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-16

Project: *LCP Superfund Site*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/12/01*
Finish Date: *11/12/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger Rig (CME 75)*
Method: *Hollow Stem Augers*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*PVC*
Diameter (ID):	*2"*	*2"*
Coupling:	*Flush*	*Flush*

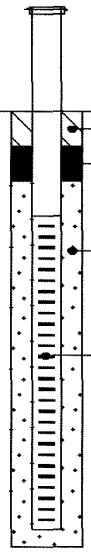
WELL DEVELOPMENT

Method: *Whale Super Purger*
Duration: *58 min.*
Gals. Purged: *92*
Slug Test: *0.0467* (cm/sec)

SURVEY DATA DATUM:

Grade: *6.24*
TWC: *NA*
TPC: *9.24*
North: *647005.13*
East: *572288.20*

Geophysical Log: ☐ yes ☒ no
Comments:

Depth (feet)	WELL CONSTRUCTION	soil / rock	Samp. No. / Run No.	Blows/ 6 in.	Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)	VISUAL CLASSIFICATION	REMARKS
0									FILL	Notes
5										1. Well construction depths and grade measured from ground surface at time of drilling. Grades may have been changed subsequent to well installation.
10										2. Well installed immediately adjacent to boring MW-B16.
									TIDAL MARSH DEPOSIT @ 12' Peat	
15										
20										
25										
30										

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-17

Project: *LCP Superfund Site*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/13/01*
Finish Date: *11/13/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger rig (CME 75)*
Method: *Hollow Stem Augers*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*PVC*
Diameter (ID):	*2"*	*2"*
Coupling:	*Flush*	*Flush*

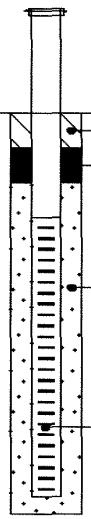
WELL DEVELOPMENT

Method: *Whale Super Purger*
Duration: *55 min.*
Gals. Purged: *26*
Slug Test: *0.0007374* (cm/sec)

SURVEY DATA DATUM:

Grade: *6.90*
TWC: *NA*
TPC: *9.87*
North: *646964.47*
East: *571464.30*

Geophysical Log: ☐ yes ☒ no
Comments:

Depth (feet)	WELL CONSTRUCTION	soil / rock	Samp. No. / Run No.	Blows/ 6 in. / Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)	VISUAL CLASSIFICATION	REMARKS
0	 Cement / Bentonite Grout; Bentonite							FILL	Notes 1. Well construction depths and grade measured from ground surface at time of drilling. Grades may have been changes subsequent to well installation.
5	Filter sand (No. 1)								
10	2" PVC screen (0.010" slot)							TIDAL MARSH DEPOSIT @ 11' Peat	
15									
20									
25									
30									

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-18

Project: *LCP Superfund Site, Linden, NJ*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/14/01*
Finish Date: *11/14/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger Rig (CME 75)*
Method: *Hollow stem augers*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*PVC*
Diameter (ID):	*2"*	*2"*
Coupling:	*Flush*	*Flush*

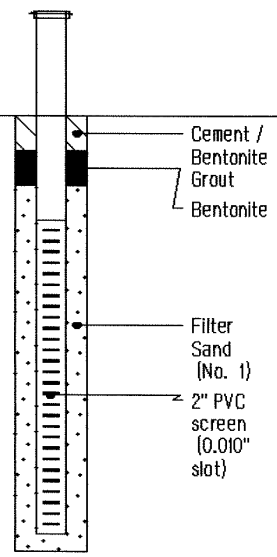
WELL DEVELOPMENT

Method: *Whale Super Purger*
Duration: *72 min.*
Gals. Purged: *70*
Slug Test: *0.0003399* (cm/sec)

SURVEY DATA DATUM:

Grade: *7.66*
TWC: *NA*
TPC: *7.57*
North: *646928.20*
East: *571888.05*

Geophysical Log: ☐ yes ☒ no
Comments:

Depth (feet)	WELL CONSTRUCTION	soil / rock	Samp. No. / Run No.	Blows/ 6 in.	Rec. (ft.)	USCS	HNU (ppm)	Hydraul. Cond. cm/sec	Rec. (ft.)	RQD	VISUAL CLASSIFICATION	REMARKS
0											FILL	Notes 1. Well construction depths and grade measured from ground surface at time of drilling. Grades may have been changes subsequent to well installation.
5												
10											TIDAL MARSH DEPOSIT @ 12" Peat	
15												
20												
25												
30												

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-19

Project: *LCP Superfund Site, Linden, NJ*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/14/01*
Finish Date: *11/14/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger Rig (CME 75)*
Method: *Hollow stem augers*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*PVC*
Diameter (ID):	*2"*	*2"*
Coupling:	*Flush*	*Flush*

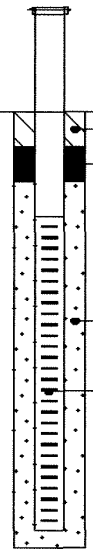
WELL DEVELOPMENT

Method: *Whale Super Purger*
Duration: *24 min.*
Gals. Purged: *52.5*
Slug Test: *6.404 E-05* (cm/sec)

SURVEY DATA DATUM:

Grade: *7.56*
TWC: *NA*
TPC: *10.21*
North: *646803.74*
East: *572323.19*

Geophysical Log: ☐ yes ☒ no
Comments:

Depth (feet)	WELL CONSTRUCTION	soil / rock	Samp. No. / Run No.	Blows/ 6 in.	Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)	VISUAL CLASSIFICATION	REMARKS
0	 Cement / Bentonite Grout; Bentonite								FILL	Notes 1. Well construction depths and grade measured from ground surface at time of drilling. Grades may have been changed subsequent to well installation.
5	Filter Sand (No. 1); 2" PVC screen (0.010 slot)									
10									TIDAL MARSH DEPOSIT @ 12' Peat	
15										
20										
25										
30										

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-20

Project: *LCP Superfund Site, Linden NJ*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/15/01*
Finish Date: *11/15/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger Rig (CME 75)*
Method: *Hollow Stem Augers*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*PVC*
Diameter (ID):	*2"*	*2"*
Coupling:	*Flush*	*Flush*

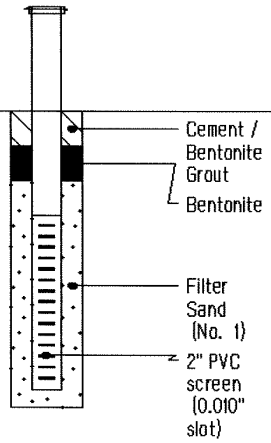
WELL DEVELOPMENT

Method: *Whale Super Purger*
Duration: *31 min.*
Gals. Purged: *67.52*
Slug Test: *.456* (cm/sec)

SURVEY DATA DATUM:

Grade: *7.94*
TWC: *NA*
TPC: *10.02*
North: *646597.08*
East: *571678.42*

Geophysical Log: ☐ yes ☒ no
Comments:

Depth (feet)	WELL CONSTRUCTION	soil / rock	Samp. No. / Run No.	Blows/ 6 in.	Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)	VISUAL CLASSIFICATION	REMARKS
0									FILL	Notes 1. Well construction depths and grade measured from ground surface at time of drilling. Grades may have been changed subsequent to well installation.
5										
									TIDAL MARSH DEPOSIT @ 8' Peat	
10										
15										
20										
25										
30										

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600081000	Well No. MW-6D Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
THC/Allendale	SDM	14"	2" PVC	.010"	60.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon Hammer Type: Manual	Development Method:
11/8/06 - 12/11/06	Advanced Drilling		Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 11.3 ft.	Easting: 572848.3 ft. Northing: 646237.5 ft. TOC Elev: 13.5 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
		GC SC	**FILL** Blk-Gray SILT & CLAY. @ .2 Blk cmf GRAVEL, little (+) cmf Sand.	8-12-23-26	1		NR	
		GW	Blk cmf GRAVEL.	NR	2		3.7-.000	
5		SW	Gray cmf SAND.	NR	3		2.6-.000	Cement / Bentonite grout
			No Recovery, large cobble in the tip of the sampler	NR	4		NR	
		SW SC	Brwn blk fmc SAND, some (-) Silt & Clay. @ 8.4' Wood.	NR	5		NR	
10		SC	@ 8.5' Blk cmf SAND, little (-) Silt & Clay, wet. Blk cmf SAND, little (-) f Gravel trace (-) Silt & Clay. Wood, Pyrite and rock fragments, wet.	NR	6		NR	
		CL ML	Silty CLAY, little (+) f Sand. @ 12.5' Blk gray cmf SAND, little (-) f Gravel.	NR	7		NR	10" Steel casing to 13.0'
		PT	**TIDAL MARSH DEPOSITS** Blk-brwn ORGANICS, some (-) Silt & Clay, wet. No Recovery	1-2-3-2	8		NR	
15		SW SC	Blk-gray SILT, some (-) fm Sand. Decomposing organics, wood, wet.	2-2-3-3	9		NR	
		SW SC	Gray mf SAND, little (-) Silt, wet.	1-1-2-2	10		NR	
20		CL	**GLACIAL TILL** Gray CLAY & SILT, little (-) fm Sand. @ 20.8' Red-brwn CLAY & SILT, little (-) fm Sand.	2-2-4-4	11		NR	
		CL ML	Red-brwn Clayey SILT, little (+) mf Sand, trace (+) cmf Gravel.	4-5-6-7	12		0.0-.017	
25				6-9-10-11	13		0.0-.016	
				9-11-13-15	14		0.0-.013	
		CL ML	Red-brwn CLAY & SILT, trace (+) c Gravel. @ 29.5' Red-brwn Clayey SILT, little (-) c Gravel.	5-6-9-11	15		0.0-.012	
30		CL	Red-brwn Clayey SILT, little (-) cmf Gravel,	5-9-10-10	16		0.0-.016	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600081000	Well No. MW-6D Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log (Sample Int, Recovery, Lithology, Well)	PID/MVA Readings (ppm)	Remarks
		ML	trace (-) fm Sand.	7-10-11-10	17		0.0-.010	
35		CL ML	Red-brwn Clayey SILT, trace (-) cm Gravel.	5-7-7-8	18		0.0-.010	
				9-10-10-14	19		0.0-.012	
		CL ML	Red-brwn Clayey SILT, little (+) fm Sand, wet.	4-4-3-4	20		0.0-.019	
40				4-4-6-2	21		0.0-.013	
		CL ML SW	Red-brwn SILT, little (+) mc Sand and fm Gravel. Pulverized cobble. @ 43.4' Red-brwn fm SAND, some (-) Silt, little cmf Gravel.	4-6-8-9	22		0.0-.013	
				7-8-8-8	23		0.0-.012	
45			**PASSAIC FORMATION** Red-brwn Siltstone, containing bedding (weathered BR)	100/2	24		0.0-.010	# 00 Sand to 46.0' 6" Steel casing to 46.0'
			Red-brwn Siltstone, moderately hard, intensely fractured. @ 48.0' - 48.67' Horizontal fractures filled in by calcite.	30%	25		NR	# 1 Sand to 48.0'
50			@ 50.67' Transition into Red-brwn Sandstone, moderately hard. @ 51.58' Horizontal fractures filled in by clay. @ From 51.67' - 53.0' Interfingering of Siltstone and Sandstone. Sandstone being fairly weathered. Pyrite deposits throughout the core.	70%	26		NR	
55			53.0' - 53.38' Red brwn fine grained sandstone, soft, highly fractured, w/ fractures fairly weathered. @ 53.79' Transition into a Red-brwn very fine grained Siltstone, moderately hard. @ 55.0' horizontal fractures filled by clay.					0.010" Slot screen
			@ 56.25 Transitions back into a Red-brwn Sandstone, moderately hard. @ 56.67' Grading into a coarse grained Sandstone.	54.2%	27		NR	
60			@ 57.08' Sandstone contains pieces of quartz gravel in matrix). @ 57.5' back into Red-brwn siltstone. Red-brwn very fine grained siltstone, moderately hard, highly fractured. @ 58.25' Horizontal fractures. @ 58.58' horizontal fractures, moderately weathered, Fe staining. @ 59.5' Red-brwn very fine grain Sandstone, moderately hard.					End of borehole @ 60.0'

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080999	Well No. MW-11D Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
THC/Allendale	SDM	14"	2" PVC	.010"	62.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon Hammer Type: Manual	Development Method:
11/9/06 - 12/20/06	Advanced Drilling		Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.0 ft.	Easting: 572447.2 ft. Northing: 646438.2 ft. TOC Elev: 10.5 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
			CONCRETE					
		CL ML	**FILL** Wet, Blk Clayey SILT, little (+) cmf Sand, trace (+) Organics. Glass fragments.	6-7-10-14	1		.022-73.4	Cement / Bentonite grout
5		CL ML	Wet, Red-Blk Silty CLAY, some (-) cmf Sand.	10-6-5-4	2		.004-18.7	Strong petroleum odor
				4-5-6-7	3		.230-123.4	PID maxed out. Collect MW-11D-6-8. strong petroleum "oilly " odor w/ visible sheen on water and NAPL blebs are abundant
				5-2-2-2	4		.100-91.5	
10		OH	Wet, Blk, ORGANICS, some (-) Silt & Clay, wood in tip of sampler.	1-1-1-1	5		.893-MAX	PID rose to 215 Collect MW-6D-10-12 @ 10.8' Large wad of newspaper/shipping manifest 10" Steel casing to 12.0'
		CL	**TIDAL MARSH DEPOSITS** Blk-gray SILT & CLAY, little (-) fm Gravel. Decomposing organics, wet	4-5-5-4	6		0.000-0.0	
15		SW	Gray to Black fm SAND, little (-) Silt, wet.	3-2-1-2	7		.204-1.6	
		SW	**GLACIAL TILL** Red-brwn fm SAND, some (-) Silt, little (-) mf Gravel.	7-9-12-10	8		.064-1.0	
		CL ML	Red-brwn SILT & CLAY, little (-) f Sand, trace (-) mf Gravel, wet.	10-16-9-5	9		.024-0.6	
20		SW SP	Red-brwn mf SAND, little (-) Silt, trace (-) mf Gravel, wet.	4-7-7-10	10		.016-.6	
		CL ML	Red-brwn SILT & CLAY, little (-) f Sand, trace (-) cm Gravel, wet.	7-5-5-7	11		.011-.6	
25				7-9-8-7	12		.060-1.6	
		CL ML	Red-brwn SILT & CLAY, trace (-) mf Gravel, wet.	7-6-7-9	13		.029-1.0	Sheen, NAPL with moderate odor from 26.0'-28.0' interval
		CL ML	Red-brwn SILT & CLAY, trace (-) f Sand, moist.	6-7-6-6	14		.009-0.0	
30				6-9-7-7	15		.008-1.0	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080999	Well No. MW-11D Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	PID/MVA Readings (ppm)	Remarks
		ML	Red-brwn Clayey SILT, little (-) f Sand, wet.	7-9-9-8	16		.000-0.0	
				7-7-9-9	17		.000-0.0	
35		SP CL ML	Red-brwn f SAND, little (-) Clay & Silt, wet. Red-brwn SILT & CLAY, little (-) f Sand.	9-8-9-9	18		.000-0.0	
		CH	Red-brwn CLAY, little (-) Silt, trace (+) mf Gravel, wet.	10-9-7-9	19		.000-0.0	
40		CL ML BR	Pulverized piece of Red-brwn Siltstone. @ 39.1' Red brwn CLAY & SILT, little (-) f Sand, trace (+) f Gravel. Pieces of Red brwn siltstone in shoe, wet. Pulverized pieces of Red-brown thin bedded Siltstone.	10-13-15-100/3	20		.000-0.0	6" Steel casing to 44.0'
45		BR	**PASSAIC FORMATION** Red-brwn very fine grain thin bedded Siltstone, intensely fractured, with moderately weathered joints. @ 45' Transition into a moderately hard thin bedded Siltstone containing calcite nodules.	30.6%	21		.000-0.0	
		BR	@ 45.5' Horizontal fracture. 47.0' - 47.5' Same as above. @ 47.5' Transition into a fine grain sandstone w/ horizontal fractures filled in by calcite and an abundance of mica flakes. @ 47.8' Transition back into siltstone, intensely fractured w/ joints being fairly weathered.	75%	22		.000-0.0	# 00 Sand to 48.0' # 1 Sand to 50.0'
50		BR	Red-brwn very fine grain, moderately hard Siltstone, fairly fracured. @ 55.5' Transition into a fine to medium grain, fairly weathered Sandstone. Mica flakes present throughout core.	83.3%	23		.000-0.0	
55								0.010" Slot screen
		BR	Red-brwn very fine grain Siltstone, moderately hard and fairly fractured. @ 57.7' Diagonal fracture, fairly weathered w/ Fe staining. @ 58' Transition into a Red-brwn fine to medium grain soft Sandstone w/ moderately weathered fractures. @ 59.5' Red-brwn Siltstone w/ horizontal clay filled fractures. Vertical clay filled fracture extending from 60.9' - 62.0'.	53.3%	24		.000-0.0	
60								End of borehole @ 62.0'

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080991	Well No. MW-14D Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
THC/Allendale	SDM	14"	2" PVC	.010"	53.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
10/30/06 - 12/1/06	Advanced Drilling	Hammer Type: Manual	Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.1 ft.	Easting: 572006.1 ft. Northing: 646397.7 ft. TOC Elev: 10.7 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log (Sample Int, Recovery, Lithology, Well)	PID/MVA Readings (ppm)	Remarks
			No samples collected.					
5								
		GP SP	**FILL** Red cfm GRAVEL, some (+) Sand, trace (+) Silt. @ 6.4' Blk cfm GRAVEL and SAND, some (+) Silt, wet.	7-4-3-2	1		0-0	Cement / Bentonite grout
		CL ML	**TIDAL MARSH DEPOSITS** Blk-green Silty CLAY, some (+) Sand, little (+) Organics, wet. No sample collected.	2-1-1-1	2		0- .010	
10								
		CL ML	Gray Clayey SILT, trace (+) cmf Gravel, decomposing organics.	3-4-4-4	1		.7- .007	10" Steel casing to 11.0'
		ML CL ML CL	**GLACIAL TILL** Red-brwn Clayey SILT, little (-) Sand, little (+) cmf Gravel, wet. Red-brown, Clayey SILT, little (-) Sand, little (+) cmf Gravel.	3-7-9-8	2		1.3- .009	
15		CL ML ML CL	Gray Clayey SILT, decomposing organics (roots) wet. Red-brwn Clayey SILT, trace (-) cm Gravel, wet.	12-14-16-16	3		0-0	
				17-16-30-33	4		1.1- .007	
20		ML CL	Red-brwn SILT & CLAY, trace (-) f Sand, wet.	19-20-20-24	5		1.8- .004	
		ML CL	Red-brwn SILT & CLAY, trace (-) mf Gravel, moist.	18-25-29-30	6		2.3- .004	
				9-12-15-21	7		1.9- .003	
25		ML CL	Red-brwn SILT & CLAY, trace (-) mf Gravel, moist. @ 25.3 Red brwn Clayey SILT, little (+) f Sand, moist.	16-27-28-30	8		2.8- .004	
		ML CL	Red-brown Clayey SILT, little (+) f Sand.	16-22-22-27	9		3.1- .005	
30				27-30-30-42	10		2.6- .004	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080991	Well No. **MW-14D** Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	PID/MVA Readings (ppm)	Remarks
		ML CL	Red-brwn CLAY & SILT, trace (+) f Sand. In shoe red brwn Clayey SILT, little (-) f Sand, trace (+) cmf Gravel, wet.	NR	11		0-0	
				NR	12		0-0	
35		ML	Red-brwn Clayey SILT, trace (+) f Sand, little (+) cmf Gravel, wet. In shoe broken piece of Red brwn siltstone showing bedding (weathered bedrock-Passaic formation)	NR	13		0-0	
								# 00 Sand to 37.0' 6" Steel casing to 39.0'
40		BR	**PASSAIC FORMATION** Red-Brwn very fine grain Siltstone. @ 39.17' Fe staining. Horizontal fractures filled in by clay. Siltstone is slightly weathered. Moderately hard, thin bedded. @ 40.0' to 41.5' silstone is highly fractured with joints being slightly weathered.	11.5%	16		NR	@ 42' Shiny silver color deposits. No MVA detection; not mercury. # 1 Sand to 39.0'
45		BR	Red-Brwn very fine grain Siltstone, moderately hard and thin bedded. @ 43.3' Fe staining. @ 43.3' to 44.5' Highly fractured with joints being slightly weathered. @ 46.67'-47.58' Highly fractured with joints being filled in by clay.	17.5%	17		NR	0.010" Slot screen
50		BR	48.0-51.58 Lithology same as above. 48.0-49.17, Highly fractured with joints filled in by clay. @ 51.58 transition into a Red Brown Sandstone. @ 52.0 transition back into a Red Brown Siltstone.	61.7%	18		NR	Bentonite slurry from 51.0' - 53.0'

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080993	Well No. MW-16D Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
THC/Allendale	SDM	14"	2" PVC	.010"	62.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon Hammer Type: Manual	Development Method:
11/3/06 - 12/7/06	Advanced Drilling		Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 6.2 ft.	Easting: 572308.0 ft. Northing: 647004.9 ft. TOC Elev: 8.7 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
			No samples taken.					
5								Cement / Bentonite grout
		SM	**FILL** Blk cmf SAND, little (-) Silt & Clay, trace (-) f Gravel, wet.	1-3-4-3	1		.000-0.0	
10				5-4-2-2	2		.000-0.0	slight chlorinated odor 10" Steel casing to 10.0'
		ML	**TIDAL MARSH DEPOSITS** Blk Clayey SILT, some (+) Organics, wet.	1-1-2-1	3		.000-0.0	light rotten egg smell
		SW SM	Gray mf SAND, little (-) Silt, trace (+) Clay, wet. Decompsing organics.	1-2-2-3	4		8.8-.049	
15				6-9-10-17	5		2.9-.035	
		SW SC	Gray mc SAND, little (-) Silt, wet.	7-7-9-10	6		0.0-.028	
		CL ML	**GLACIAL TILL** Red-brwn SILT, some (+) fm Sand, little (+) cmf Gravel.	10-17-12-10	7		0.0-.022	
20		SM ML CL ML CL	Red-brwn f SAND, little (-) Silt. Red-brwn Clayey SILT, little (-) Sand, wet. Red-brwn Clayey SILT, little (-) fm Sand, trace (+) cmf Gravel, wet.	9-6-10-9	8		0.0-.018	
				9-10-10-8	9		0.0-.000	
25				12-11-11-12	10		0.0-.005	
		ML CL	Red-brwn CLAY & SILT, little (-) cm Gravel, wet.	NR	11		0.0-.000	
30		ML CL	Red-brwn SILT & CLAY, trace (-) f Sand and mf Gravel. wet.	4-4-5-5	12		0.0-.000	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080993	Well No. MW-16D Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Well	PID/MVA Readings (ppm)	Remarks
		ML CL	Red-brwn CLAY & SILT, trace (-) f Sand. wet.	5-7-9-8	13					0.0-.000	
				4-5-6-6	14					0.0-.000	
35		ML CL	Red-brwn Clayey SILT, little (+) cmf Gravel, little (-) fm Sand.	6-9-10-10	15					0.0-.000	
				7-41-12-12	16					0.0-.004	
		BR	**PASSAIC FORMATION**								
		BR	Red-brwn pulverized Siltstone (weathered bedrock)	12-22-100/5	17					0.0-.000	
40			39.0-39.6 Pulverized Red-brwn Siltstone (weathered bedrock). @ 39.6 Red-brwn Siltstone								
		BR	Red-brwn fine grained Siltstone, intensely fractured, moderately hard and weathered. @ 44.5 Red-brown clay deposits w/ weathered bedrock.	0.0%	18					NR	6" Steel casing to 42.0'
		BR	44.0' - 44.75' Red brwn very fine grained intensely fractured Siltstone, moderately hard, fairly weathered, Fe staining. @ 45.5' horizontal fractures filled in by clay. @ 45.67" Same lithology, more indurated Siltstone, containing pyrite mineralization	57.3%	19					NR	
45											
		BR	throughout. @ 46.92' Horizontal fracture filled in by calacite.	85.8%	20					NR	# 00 Sand to 48.0'
			48.0 - 48.25' Lithology same as above. @ 48.25 Horizontal fractures that are filled in by calcite. @ 50.1 horizontal fractures filled in by calcite from 50.1-50.6, Red-brwn Siltstone, moderately weathered, soft, and hightly fractured. @ 50.6 Red-brwn moderatly hard Siltstone, unweathered,								# 1 Sand to 50.0'
50		BR	contains pyrite mineralization throughout. Red-brwn very fine grain Sandstone, moderately hard and slightly weathered. SS highly fractured (horizontal). Fractured zones, highly weathered, soft. @ 54.4 transitions into a Red-brwn fine grained Siltstone, moderately hard. @ 54.75 horizontal fractures filled in by clay.	60%	21					NR	
55											0.010" Slot screen
		BR	Interfingering of Siltstone and SS for remainder of core, pyrite mineralogy present throught the core.	17.7%	22					NR	
60			Red brown SS, soft, vertically fractured, moderatly weathered, with calcite and clay deposits in the joints. @ 58.83' Red brwn moderately hard siltstone, presence of Fe staining, highly fractured. From 59.92' to 61.67' Red brwn moderetly hard siltstone, intesly fractured w/ wavy bedding. Numerous horizontal fractures filled in by clay.								End of borehole @ 62.0'

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080986	Well No. MW-17D Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
THC/Allendale	SDM	14"	2" PVC	.010"	57.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon Hammer Type: Manual	Development Method:
10/30/06 - 11/27/06	Advanced Drilling		Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 7.8 ft.	Easting: 571478.0 ft. Northing: 646952.8 ft. TOC Elev: 10.1 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
			No samples collected.					
								Cement / Bentonite grout
5		GW SW	**FILL** Brwn-blk-gray cfm GRAVEL and cfm SAND, little (+) Silt & Clay, trace (+) Organics, wet.	5-2-4-2	1		0-0	
		GW SW	Blk coated cfm GRAVEL and SAND, some (-) Silt, little (+) Clay, organic material on bottom.	3-3-2-3	2		0-0	Small gray NAPL blebs, ranibow sheen in black liquid odor.
10		GW SW	Blk coated cfm GRAVEL and SAND, trace (-) Silt, trace (+) Organics.	3-2-1-1	3		0-0	Black liquid, gray to rainbow NAPL blebs, odor.
		CL ML	**TIDAL MARSH DEPOSITS** Blk-green-gray Silty CLAY, some (+) Organics, trace (-) fm Sand, wet.	1-1-1-1	4		0-0	
		CL ML	Blk-gray Silty CLAY, some (-) organics, wet.	2-1-1-1	5		0-0	10" Steel casing to 13.0'
15				1-2-3-4	6		9.8-MAX	
		CL ML	**GLACIAL TILL** Gray fmc SAND. @ 16.0' Red-brwn SILT & CLAY, little (-) fmc Sand.	4-7-7-7	7		1.3-.046	
		CL ML	Wet, Red-brwn Clayey SILT, some (-) fmc Sand, trace (+) f Gravel	7-9-10-10	8		14.7-.018	
20		CL ML	Wet, Red-brwn Clayey SILT, some (-) fm Sand.	7-8-9-10	9		3.7-.012	
		CL ML	Wet, Red-brwn SILT & CLAY, little (+) fm Sand.	4-7-8-2	10		5.3-.023	
25		CL ML	Wet, Red-brwn Silty CLAY, little (+) fmc Sand, trace (+) f Gravel.	7-7-7-9	11		4.9-.007	
		CL ML	Red-brwn Clayey SILT, little (-) fm Sand.	7-8-9-8	12		3.9-.007	
30				4-5-6-6	13		8.4-.004	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080986	Well No. MW-17D Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	PID/MVA Readings (ppm)	Remarks
		CL ML	Red-brwn SILT & CLAY, trace (+) Sand, wet. @ 32.0' small lens w/ relic bedding. No bedding apparent beyond. Red-brwn SILT & CLAY, little (+) fmc Sand w/ Shale (Bedrock) Fragments.	4-6-6-5	14		4.4- .007	
		BR	**PASSAIC FORMATION** Wet, Red-brwn weathered bedrock Shale fragments	10-13-17-100/6	15		18.4- .155	
35								# 00 Sand to 36.0'
		BR	Red-Brwn mudstone, thin laminations. @ 37.3' fracture with possible calcite deposits.	0.0%	16		NR	6" Steel casing to 37.0' # 1 Sand to 38.0'
40		BR	Red-Brwn Siltstone, contains vertical fractures with secondary mineralization. @ 43.6' Transition into a Red-brwn friable Sandstone, containing feldspar (possible arkose).	55.9%	17		NR	
45		BR	44.0' - 46.17' Red-brwn fine grain friable Sandstone, containing numerous horizontal fractures. @ 46.0' Horizontal fractures filled in by secondary mineralization. @ 47.0' Transition back into a Red-brwn Siltstone. @ 47.92' Horizontal fracture filled in by calcite.	50.0%	18		NR	0.010" Slot screen
50		BR	Red-Brwn Siltstone. @ 50.1' Horizontal fracture filled in by clay. @ 51.75' Horizontal fracture filled in by clay. @ 53.25' Numerous hairline fractures.	85%	19		NR	
55		BR	54.0' - 54.6' Same as above. @ 55.3' Fracture filled in by clay.	88%	20		NR	Bentonite slurry from 52.0' - 57.0' End of borehole @ 57.0'

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080987	Well No. MW-18D Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
THC/Allendale	SDM	14"	2" PVC	.010"	58.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon Hammer Type: Manual	Development Method:
11/3/06 - 11/29/06	Advanced Drilling		Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 7.7 ft.	Easting: 571908.7 ft. Northing: 646922.2 ft. TOC Elev: 10.0 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
			No samples collected.					
5								Cement / Bentonite grout
			No Recovery	1-2-2-3	1		.001-0.0	
				5-4-4-2	2		.000-0.0	
10								
		CL ML	**TIDAL MARSH DEPOSITS** Blk-gray-green Silty CLAY, some (+) Organics, trace (+) fm Sand, wet.	1-2-1-1	3		.009-0.0	10" Steel casing to 11.0'
		CL ML	Blk-brwn Clayey SILT, decomposing plant roots. @ 13.4 3" piece of wood.	1-2-2-1	4		0.1-.009	
15		CL ML	Gray Clayey SILT, some (-) fm Sand, wet.	2-3-7-10	5		0.0-.009	
		SW CL ML	**GLACIAL TILL** Red-brwn well sorted f SAND, little (-) Silt. Red-brwn Clayey SILT, little (+) cmf Gravel, wet.	4-5-5-6	6		2.6-.037	
20				7-7-9-10	7		2.0-.008	
				9-10-11-8	8		0.1-.009	
				9-10-10-10	9		0.1-.009	
25		CL ML	Red-brwn SILT & CLAY, little (+) fm Sand, wet.	7-9-10-10	10		0.3-.007	
				12-11-15-20	11		2.6-.004	
30		CL ML	Red-Brwn SILT & CLAY, wet. Pulverized pieces of C Gravel found @ 33 ft. in shoe of split spoon, wet.	7-9-12-15	12		3.0-.007	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080987	Well No. MW-18D Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	PID/MVA Readings (ppm)	Remarks
				10-11-12-10	13		2.9-.006	
		CL ML	Red-Brown Clayey SILT, some(-) cmf Gravel. @ 34.4' Same as above with Red brown Siltstone (showing bedding).	7-9-13-10	14		5.5-.001	
35		BR	**PASSAIC FORMATION** Red-brwn weathered Siltstone (weathered bedrock)	13-16-18-10	15		1.9-.004	
		BR	Pulverized Siltstone found in shoe (Siltstone showing bedding).	25-100/5	16		8.0-.006	# 00 Sand to 38.0' 6" Steel casing to 40.0'
40		BR	Red-Brwn very fine grain Siltstone. Thin bedding. @ 44.25' Horizontal hairline fracture, moderately hard.	0.0%	17		NR	# 1 Sand to 40.0'
45		BR	Red-brwn very fine grained, thin bedded Siltstone, numerous hairline horizontal fractures throughtout core. @ 44.25' core is pulverized. @ 46.0' signs of crossbedding (fractures filled in by calcite). @ 46.5', 47.0', and 47.67' Siltstone is noticably softer than rest of the core.	36.5%	18		NR	0.010" Slot screen
				59.2%	19		NR	
50		BR	Red-Brwn very fine grained Sandstone, very friable. @ 51.2' Transition back into a red-brown fine grain Siltstone. @ 52.0' Siltstone is much harder than previous cores.					
		BR	Red-Brwn fine grain, thin bedded Siltstone. @ 56.0' Horizontal fractures filled in by clay.	90%	20		NR	
55								Bentonite slurry from 52.0' - 58.0' End of borehole @ 58.0'

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080992	Well No. MW-20D Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
THC/Allendale	SDM	14"	2" PVC	.010"	53.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
10/30/06 - 12/4/06	Advanced Drilling	Hammer Type: Manual	Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.1 ft.	Easting: 571692.8 ft. Northing: 646589.9 ft. TOC Elev: 10.5 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
			No samples collected.					
5								Cement / Bentonite grout
		GP	**FILL** Blk GRAVEL and SAND, some (+) Silt. @ 6.2' Blk-gray-brwn Silty CLAY, little fm Sand, some (+) Organics, wet.	1-1-1-1	1		0-0	
10		GW	Blk cmf GRAVEL, wet.	3-2-2	2		0-0	6" Steel casing to 10.5'
		CL ML	**TIDAL MARSH DEPOSITS** Blk-gray Silty CLAY, little (+) fm Sand and Organics, wet.	12-2-2-2	3		3.3-.004	Sample-MW-20D-12-14
15		CL ML	**GLACIAL TILL** Red-brwn SILT & CLAY, little (-) fmc Sand, wet.	4-5-4-5	4		5.1-0	
				4-5-4-4	5		.3-0	
		NR	No recovery.	8-6-7-9	6		0-0	
20		ML	Red-brwn Clayey SILT, little (+) fmc Sand, trace (+) cmf Gravel, wet.	6-7-9-9	7		1.7-.003	
		ML CL	Red-brwn SILT & CLAY, some (-) cmf Sand, little (-) fm Gravel, wet.	6-8-10-12	8		1.2-0	
25		ML CL	Red-brwn SILT & CLAY, little (-) fmc Sand, wet. @ 29.3'Relic bedding, weathered bedrock. @ 29.5' competent Siltstone in tip of ss-sampler, wet.	9-9-9-10	9		5.1-0	
				9-12-12-16	10		5.2-0	
				13-12-15-16	11		5.9-0	
30		CL	Red-brwn Silty CLAY, some (-) cmf Sand,	8-8-9-11	12		5.1-0	Cobble in tip of 28.0' - 30.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080992	Well No. MW-20D Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log (Sample Int, Recovery, Lithology, Well)	PID/MVA Readings (ppm)	Remarks
		ML	wet. @ 32.9 have weathered bedrock, bedding evident. Red-brwn Shale, wet.	14-21-20-18	13		5.5-0	interval ss-sample Sample MW-20D-32-34
35		BR	**PASSAIC FORMATION** Weathered Siltstone, bedrock	10-23-60-60	14		7.8-.027	Sample MW-20D-36-38
				100/6	15		18.2-.059	
		BR	Red-Brwn Siltstone, fairly fractured, moderately hard. @ 39.92 Horizontal fracture filled in by clay.	43.3%	16		0.0-.000	10" Steel casing to 38.0' # 00 Sand to 39.0' # 1 Sand to 41.0'
40								
45		BR	Red-Brwn very fine grain Siltstone, moderately weathered. Siltstone in this interval is intensely fractured with clay deposits in fracture @ 44.50' - 46.58' very fine grain moderatly hard, unweathered Siltstone. @ 46.42' Grading back into a sandy Siltstone. @ 46.67' Red-Brwn fine grained Sandstone.	64.2%	17		0.0-.000	0.010" Slot screen
50		BR	@ 47.17' Transition into a fine grained highly weathered Siltstone. Between 47.17' - 48.0' Siltstone contains shiny silver to gold metallic particles (checking for Hg) Red-Brwn fine grain Siltstone. @ 48.17' Diagonal fracture that is filled w/clay. Entire run is moderately fractured w/ mica flakes. @ 50.25' Red-brwn fine grain Sandstone. @ 50.33 transition back into Red-brwn Siltstone. @ 51.83 Red-brwn Sandstone w/ m Gravel. @ 52.0 Grading back into Red-Brwn fine grain Siltstone.	23.3%	18		0.0-.000	End of borehole @ 53.0'

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600081002	Well No. MW-21D Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
THC/Allendale	SDM	14"	2" PVC	.010"	60.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
11/3/07 - 12/5/06	Advanced Drilling	Hammer Type: Manual	Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 7.5 ft.	Easting: 572532.2 ft. Northing: 646048.6 ft. TOC Elev: 9.5 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
			No samples collected.					
5								Cement / Bentonite grout
		SW SC	**FILL** Wet, Blk cmf SAND, some (-) Silt & Clay. Wood chunks in the tip of sampler.	10-7-4-4	1		NR	
				5-4-4-5	2		NR	
10								
		PT	**TIDAL MARSH DEPOSITS** Wet, Blk, ORGANICS, some (-) Silt & Clay, Peat.	1-1-1-1	3		NR	
		CL	Gray-blk Silty CLAY, little (-) f Sand.					
		ML	Gray Silty CLAY, little (-) f Sand.	2-3-4-4	4		0.6-.004	6" Steel casing to 13.0'
		CL	Decomposing organics.					
		ML						
15		SW	**GLACIAL TILL** Red-brwn mf Sand, little (-) Silt, trace (-) cmf Gravel, wet.	5-6-6-6	5		3.0-.010	
		ML	Red-brwn Clayey SILT, some (-) fm Sand, trace f Gravel, wet.	6-7-6-7	6		3.4-.005	
20		ML CL	Red-brwn SILT & CLAY, trace (-) f Sand, wet.	4-4-4-4	7		0.0-.005	
				4-5-5-6	8		0.0-.005	
		CL ML	Red-brwn CLAY & SILT, trace (+) cmf Gravel, trace (-) mf Sand, wet.	4-5-5-6	9		0.0-.004	
25				16-30-65-24	10		0.8-.000	
		SP	Red-brwn fm SAND, some (+) Silt, wet.					
		ML	Red-brwn Clayey SILT, trace (+) cmf Gravel, wet.	7-9-9-8	11		0.8-.000	
30		ML	Red-brwn Clayey SILT, little (+) fm Sand. @ 29.8' Red brwn Clayey SILT, little (+) fm Sand, trace (+) cmf Gravel, wet.	5-5-9-15	12		0.4-.000	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600081002	Well No. MW-21D Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	PID/MVA Readings (ppm)	Remarks
		SM SC	Red-Brwn fm SAND, little (-) Silt & Clay, wet.	9-10-10-11	13		1.9-.000	
		CL ML	Red-Brwn CLAY & SILT, trace (+) mf Gravel, wet.	6-6-6-9	14		1.0-.000	
35		CL ML	Red-Brwn CLAY & SILT, little (+) f Sand, little (-) cmf Gravel, wet. @ 36.2' Same as above w/ fragments of Red-Brwn Siltstone.	8-8-10-12	15		1.8-.000	
		CL ML	Red-Brwn CLAY & SILT, little (+) f Sand and cmf Gravel. @ 37.1' Pulverized pieces of Red-brwn Siltstone	16-30-28-15	16		2.3-.000	
40		ML	Red-brwn Clayey SILT, little (+) fm Sand. Fragments of Red-brwn Siltstone. Siltstone showing bedding (weathered bedrock).	19-18-15-100/4	17		1.6-.003	
45		BR	**PASSAIC FORMATION** Red-brwn very fine grained moderately hard Siltstone. @ 46.0' Horizontal fracture filled in by clay, pyrite deposits in joints. @ 47.25' Transition into a fine grained, moderately hard Sandstone.	70%	18		NR	10" Steel casing to 43.0' # 00 Sand to 44.0' # 1 Sand to 46.0'
50		BR	Red-brwn very fine grained, moderately hard Sandstone. @48.5' Horizontal fracture with pyrite deposits. @ 49.5' Horizontal fracture filled in by calcite, Sandstone softer. @ 56.5' Sandstone intensely fractured.	57%	19		NR	
55		BR	Red-brwn very fine grain Siltstone, moderately hard containing relic bedding. @ 53.25' Transition into a fine grain Red-brwn Sandstone, soft, with interbeds of Siltstone. @ 53.83' Grading into a Red-brwn Siltstone containing pyrite. @ 55.16' Transition back into a red-brwn fine grain Sandstone. 26" to 42" three diagonal open fractures (about 4" each). Sandstone very soft. @ 56.75'	40%	20		NR	0.010" Slot screen
60		BR	Transition back into a Red-brwn Siltstone. @ 57.58' intensely fractured zone, soft. Red-brwn very fine grain Sandstone containing interbeds and lenses of Red-brwn Mudstone. Sandstone moderatly hard with pyrite mineralization scattered throughout core. @ 59.67' Grading into a Red-brwn very fine grain Siltstone containing horizontal fractures filled in by clay. Siltstone moderately hard containing pyrite.	95.8%	21		NR	Bentonite slurry from 58.0' - 60.0' End of borehole @ 60.0'

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600081001	Well No. MW-21S Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	6"	2" PVC	.010"	10.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
10/25/06 - 10/25/06	Advanced Drilling	Hammer Type: Manual	Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 7.4 ft.	Easting: 572519.4 ft. Northing: 646068.0 ft. TOC Elev: 10.2 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
			Concrete								
		CL	**FILL**	6-9	1					0.9-0	Cement / Bentonite grout
		ML	Brwn, Silty CLAY, little (+) cmf Sand, moist.	7-6-7-8	2					NR	# 00 Sand to 2.0'
		NR	No recovery								# 1 Sand to 3.0'
		SP	Brwn-tan cmf SAND, little (+) Silt & Clay, trace (+) fm Gravel, @ 4.3' Large wood frag.	5-6-6-7	3					1.8-0	0.010" Slot screen
5		SP	Wet, cmf SAND, little (+) Silt & Clay, trace (+) fm Gravel.	11-6-5-3	4					16.8-0	
		CL	**TIDAL MARSH DEPOSITS** Tan-brwn Silty CLAY, some (-) organics, wet.	5-2-2-2	5					.9-0	Odor, rainbow sheen w/minor amounts of NAPL on water in spoon in 8.0' -10.0' interval End of borehole @ 10.0'
10											

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080990	Well No. MW-22S Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	6"	2" PVC	.010"	12.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
10/25/06 - 10/25/06	Advanced Drilling	Hammer Type: Manual	Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.5 ft.	Easting: 572216.6 ft. Northing: 646279.8 ft. TOC Elev: 10.9 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
		NR	No Recovery.	12-58-32-34	1					0.1-0	
		SW SM	**FILL** Moist-dry, Brwn cmf SAND, little (+) Clayey Silt, little (-) cmf Gravel. Brick fragments.	13-12-24-13	2					32.8-0	Cement / Bentonite grout
5		ML CL	Moist, Red brwn SILT & CLAY, little (+) fmc Sand, @ 4.9' Wet, Blk fm SAND, little (-) fmc Gravel, trace (-) Silt & Clay.	2-5-4-8	3					16.8-0	# 00 Sand to 4.0' # 1 Sand to 5.0'
		SW GW	Wet, Blk cmf SAND, little (-) fmc Gravel, trace (-) Silt & Clay.	5-6-6-5	4					1.3-0	Slight sheen with odor in 6.0' - 8.0' interval
		NR	No Recovery.	8-8-4-3	5					0-0	0.010" Slot screen
10		ML CL	**TIDAL MARSH DEPOSITS** Wet, Brwn Clayey SILT, some (-) Organics, @ 11.2' Gray SILT & CLAY, little (+) fmc Sand.	1-1-2-2	6					NR	End fo borehole @ 12.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080989	Well No. **MW-23D** Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
THC/Allendale	SDM	14"	2" PVC	.010"	53.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
11/15/06 - 11/30/06	Advanced Drilling	Hammer Type: Manual	Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.2 ft.	Easting: 572133.4 ft. Northing: 646560.0 ft. TOC Elev: 10.7 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log (Sample Int, Recovery, Lithology, Well – Stick Up)	PID/MVA Readings (ppm)	Remarks
			No samples Collected. See MW-23S log for shallow descriptions.					
5								Cement / Bentonite grout
10			No Recovery	1-2-1-1	1		0.0-.000	
		CL ML	**TIDAL MARSH DEPOSITS** Blk Clayey SILT. Decomposing organics, wet.	1-3-3-3	2		0.0-0.043	6" Steel casing to 13.0' Sulfer Odor
15				3-7-6-7	3		0.0-0.076	
		CL ML CL ML	**GLACIAL TILL** Red-brwn Clayey SILT, little (+) fmc Sand, trace (-) cmf Gravel, wet. Red-brwn SILT & CLAY, little (-) cmf Gravel, trace (+) f Sand, wet.	7-9-10-12	4		0.0-0.004	
20				12-13-10-11	5		0.8-0.007	
		CL ML	Red-Brwn Silty CLAY, trace (-) cmf Gravel, moist.	11-13-15-12	6		TOL-0.005	
				10-9-10-10	7		0.0-0.000	
25				10-13-13-14	8		0.0-0.000	
				9-12-12-16	9		0.0-0.004	
30		CL ML	Red-brwn Clayey SILT, some (+) f Sand, wet.	12-8-9-8	10		0.0-0.000	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080989	Well No. **MW-23D** Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	PID/MVA Readings (ppm)	Remarks
		CL ML	Red-brwn CLAY & SILT, wet.	9-8-10-11	11		0.0-0.004	
				5-7-7-7	12		0.0-0.000	
35		CL ML	Red-brwn Clayey SILT, little (-) mf Gravel.	7-6-7-2	13		0.0-0.008	
				7-7-9-11	14		0.0-0.015	
		BR	**PASSAIC FORMATION** (Weathered bedrock) Red-brwn Siltstone w/ bedding.	15-100/5	15		0.0-0.000	# 00 Sand to 39.0'
40		BR	Red-brwn very fine grain Siltstone. 41.0' - 41.5' diagonal fractures filled in by clay, moderately hard. @ 41.5' Pulverized pieces of Red-brwn Siltstone, soft. @ 42.67' Horizontal fracture that splits core. Fracture filled in by clay.	18.8%	16		NR	10" Steel casing to 39.0' # 1 Sand to 41.0'
		BR	Red-brwn Siltstone, moderately hard, moderatley fractured. @ 44.67' Fe staining, shiny gold/silver minerals scattered throughout inner core (possible pyrite). @ Clay deposits in fractures.	16.7%	17		NR	
45		BR	Red-brwn very fine grain Siltstone, fairly hard. @ From 48.83' - 49.2', Horizontal fractures are filled in by calcite. @ From 49.2' - 51.83', highly fractured zone. @ 51.83' Horizontal fracture filled in by clay. @ 52.5' Horizontal fracture filled in by calcite.	28.3%	18		NR	0.010" Slot screen
50								End of borehole @ 53.0'

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080988	Well No. MW-23S Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	6"	2" PVC	.010"	12.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon Hammer Type: Manual	Development Method:
10/26/06 - 10/26/06	Advanced Drilling		Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.2 ft.	Easting: 572131.4 ft. Northing: 646552.5 ft. TOC Elev: 10.5 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Sample Int	Recovery	Lithology	Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
		GW SW	**FILL** Brwn red cmf GRAVEL and mfc SAND, little (+) Clay & Silt. Grass, topsoil, organic material. @ 0.25' Red-brwn SILT & CLAY.	4-1-2-3	1					.2/0	Cement / Bentonite grout
		CL ML	Red CLAY & SILT, trace (-) mf Sand. Brick fragments, wet.	3-2-2-2	2					.2/0	# 00 Sand to 2.0' # 1 Sand to 3.0'
5		CL ML	Red CLAY & SILT, little (-) m Gravel, trace (+) mf Sand, wet	1-3-3-2	3					.3/0	
		CL ML	Red CLAY & SILT, some mf Sand, trace (-) mf Gravel, wet.	4-3-3-4	4					.3/0	0.010" Slot screen
		CL ML	Red Silty CLAY, trace (-) Gravel and Sand, wet.	4-3-5-4	5					.3/0	
10		CL ML	**TIDAL MARSH DEPOSITS** Blk CLAY & SILT, some greenish blk-orange Organics, wet.	1-2-1-1	6					.3/0	End of borehole @ 12.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080994	Well No. MW-24S Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	6"	2" PVC	.010"	12.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon Hammer Type: Manual	Development Method:
10/26/06 - 10/26/06	Advanced Drilling		Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 9.8 ft.	Easting: 572051.8 ft. Northing: 646780.2 ft. TOC Elev: 12.6 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
		GW	**FILL** Gray-Red-Brwn mf GRAVEL, some (+) Silt & Clay, little (+) Sand.	7-7-13-13	1					.2-0	Cement / Bentonite grout # 00 Sand to 1.5' # 1 Sand to 2.0'
		GW	Blk cm GRAVEL, wet	8-10-11-10	2					.3-0	
5				2-6-2-2	3					.3-0	Black liquid coating sediment, sheen
		GW SW	Blk cfm GRAVEL and cmf SAND, little (+) Clayey Silt. @ 6 .2' Blk Clayey SILT, little (+) cm Gravel, trace (+) f Sand. @ 7.3' Gray GRAVEL, some (+) Clay & Silt, wet.	2-8-7-8	4					.3-.005	NAPL visible 0.010" Slot screen
		CL ML	**TIDAL MARSH DEPOSITS** Brwn-gray CLAY & SILT, little (+) cm Sand and cm Gravel. @ 9.5' Blck-gray-brwn silty CLAY, some (-) cm Sand, little (+) cm Gravel, wet.	5-7-10-7	5					.3-.035	Odor
10		ML	Gray to blk mf SAND, little (+) Silt, trace (+) mf Gravel. @ 11.0' Clayey SILT. Decomposing organics.	1-1-2	6					0.0-.035	Sheen, Black blebs throughout saturated material. Saturated liquid with Rainbow sheen. Hg beads visible with magnifying glass.

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080997	Well No. MW-25D Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
THC/Allendale	SDM	14"	2" PVC	.010"	54.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
11/7/06 - 12/21/06	Advanced Drilling	Hammer Type: Manual	Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 7.5 ft.	Easting: 572549.8 ft. Northing: 646665.1 ft. TOC Elev: 10.3 ft.
R. Empson	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
			No samples collected.					
5								Cement / Bentonite grout
		CL ML	**TIDAL MARSH DEPOSITS** Gray blk Silty CLAY, some (-) organics.	1-1/12-1	1		NR	
10		ML	Gray-blk Clayey SILT. Decomposing Organics.	NR	2		MAX	Beads of metallic mercury
				NR	3		MAX	Beads of metallic mercury were visable on gloves and sample
		SW	**GLACIAL TILL** Red-brwn fm SAND, little (+) Silt. @ 17.3' Red-brwn cmf SAND, trace (+) Silt.					
15				7-8-9-9	4		.004-0.0	10" Steel casing to 15.0' through TMD. Deviation from FOP approved by USEPA.
		CL ML	Red-brwn Clayey SILT, trace (+) fm Sand, trace (-) cmf Gravel, wet	9-10-12-10	5		.010-0.0	
20		CL ML	Red-Brwn SILT & CLAY, trace (+) f Sand, trace (-) mf Gravel, moist.	10-9-10-9	6		.018-1.0	
				7-9-7-7	7		.010-0.0	
25		CL ML	Red-brwn Clay & Silt, trace (-) mf Gravel, wet.	6-7-7-8	8		.013-0.0	
		CL ML	Red-brwn Clayey SILT. @ 27.3 Pulverized pieces of blk and Red-brwn Shale.	10-9-6-9	9		.016-0.0	
30		CL ML	Red-brwn CLAY & SILT, trace (+) mf Gravel, wet.	17-14-16-13	10		.023-0.0	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080997	Well No. MW-25D Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	PID/MVA Readings (ppm)	Remarks
		CL ML CL ML	Red-brwn Clayey SILT, little (+) fm Sand. @ 32.4 Red-brwn fm SAND, some (-) Silt, wet. Red-brwn SILT & CLAY, little (-) f Sand, trace (+) mf Gravel.	16-20-29-33	11		.026-0.0	
				10-6-9-6	12		.034-0.0	MW-25D-33-35
35				10-10-10-11	13		.010-0.0	
		CL ML	Red-brwn Clayey SILT, trace (-) f Gravel. moist.	4-5-6-5	14		.005-0.0	
		CL ML	Red-brwn SILT & CLAY, little (-) f Sand, trace(+) to no cmf Gravel, wet.	9-10-10-9	15		.016-0.0	
40		BR	**PASSAIC FORMATION** Red-brwn Siltstone w/ thin bedding (bedrock), dry.	13-26-100/5	16		.010-0.0	# 00 Sand to 40.0' 6" Steel casing to 42.0' # 1 Sand to 42.0'
		BR	Red-brwn very fine grained, intensely fractured and weathered Siltstone. @ 44.42' Fe staining.	0.0%	17		NR	
45		BR	46.0' - 46.17' Same as above. @ 46.17' Red-brwn very fine grained moderately hard Siltstone. @ 47.42' Horizontal fractures filled in by clay. @ 47.67' abrupt change into a Red-brwn, fine to medium grained soft Sandstone, intensely fractured and weathered. From 48.17' - 50.0' Interfingering of Siltstone and Sandstone, w/ Sandstone containing fractures.	48.3%	18		NR	
50		BR	51.0'-52.08' Red-brwn moderately hard, very fine grained Siltstones w/ deposits of feldspar within its matrix. @ 52.08' Horizontal fracture filled in by clay. @ 52.08-53.50 Highly fractured and moderately weathered joints. @ 53.50 Diagonal hairline fractures filled in by clay.	63.9%	19		NR	0.010" Slot screen End of borehole @ 54.0'

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: 2600080998	Well No. MW-26S Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	6"	2" PVC	.010"	10.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon Hammer Type: Manual	Development Method:
10/26/06 - 10/26/06	Advanced Drilling		Submersible pump.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 9.3 ft.	Easting: 572484.2 ft. Northing: 646630.6 ft. TOC Elev: 12.0 ft.
C. Conner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
		CL ML	**FILL** Brwn CLAY & SILT, some (-) mf Sand.	5-2-2-3	1		0-0	Cement / Bentonite grout
		GW SW CL ML CL	Mf GRAVEL, some fm Sand. Red-Brwn CLAY & SILT, some f Sand, wet. Red-Brwn Silty CLAY, some mf Sand, wet.	7-5-3-2	2		0-0	# 00 Sand to 2.0' # 1 Sand to 3.0'
5				2-1-2-2	3		.2-0	0.010" Slot screen
				6-7-7-8	4		.2-0	
		CL ML	**TIDAL MARSH DEPOSITS** Blk-green Silty Clay, some Organics.					
		CL ML	Blk-green Silty CLAY, some Organics. @ 8.6' to Red-brwn CLAY & SILT, trace mf Sand and Gravel.	2-2-2-2	5		.2-0	Sample MW-26S-8-10
10								End of borehole @ 10.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-ISP Drilling Project Number: 134216 Project Location: Linden, NJ	Permit Number: 2600085639	Well No. **MW-27D** Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
BMR/Allendale	MPC	6"	2" PCV	.010"	60.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: N/A Hammer Type: N/A	Development Method:
12/12/07 - 12/13/07	Samuel Stothoff		Whale pump surging.

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD29 Ground Surface Elev: 9.4 ft.	Easting: 573162.0 ft. Northing: 646195.0 ft. TOC Elev: 10.3 ft.
Denny Wene	Air Hammer	IR T-4		

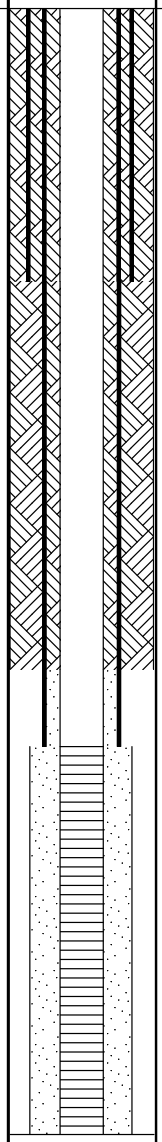
Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Well (Stick Up)	PID/MVA Readings (ppm)	Remarks
			No samples collected.								
5											
10											Tidal Marsh encountered.
15											
20											Glacial till/weathered bedrock.
25											
30											

P:\lcp\134216(isp-lcp_drilling)\logs\134216.gpj

MONITORING WELL LOG

BROWN AND CALDWELL	Project Name: LCP-ISP Drilling Project Number: 134216 Project Location: Linden, NJ	Permit Number: 2600085639	Well No. **MW-27D** Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	PID/MVA Readings (ppm)	Remarks
35											Bedrock encountered. 10" steel casing installed at 37'.
40											
45											
50											6" steel casing installed at 50'.
55											
60											End of boring.



BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: DSP-1

Project: *LCP Superfund Site*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/19/01*
Finish Date: *11/29/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger rig (CME 75)*
Method: *HSA (casing) / Mud rotary (boring)*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*NA*
Diameter (ID):	*4"*	*NA*
Coupling:	*NA*	*NA*

WELL DEVELOPMENT

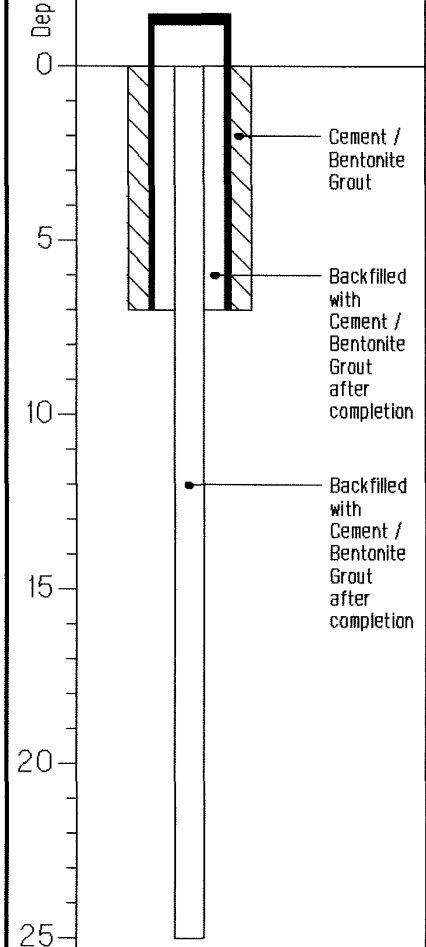
Method: *NA*
Duration: *NA*
Gals. Purged: *NA*
Slug Test: *NA* (cm/sec)

SURVEY DATA

DATUM: NA
Grade: *8.05*
TWC: *NA*
TPC: *NA*
North: *646406.86*
East: *571994.96*

Geophysical Log: ☐ yes ☒ no
Comments:

WELL CONSTRUCTION



SAMPLE DATA

Samp. No. / Run No.	Blows/ 6 in. / Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)
S-1	5-5-8-9	1.5	CL	NA
S-2	9-5-6-7	1	CL	NA
S-3	6-5-4-7	1	CL	NA
S-4	4-2-1-1	1	GP/PT	NA
S-5	10-10-3-3	1	NA	NA
S-6	1-1-1-2	1.5	PT	NA
S-7	1-1-2-3	.3	CL	NA
S-8	4-5-9-12	1	ML	NA
S-9	11-17-19-50/5	1.5	ML	NA

VISUAL CLASSIFICATION

FILL
@ 0' Black fmc SAND, little f Gravel
@ 1.5' Red CLAY, some to no shale fragments

Black fm GRAVEL — 6.5

TIDAL MARSH DEPOSIT (Peat)
@ 6.5 PEAT

(Organic silt) — 11
@ 10' Medium brown CLAY AND PEAT

GLACIAL TILL
Reddish brown CLAY, some f Sand, little fm Gravel
Reddish brown CLAY & SILT, some minus to little plus fm Gravel

19.4

PASSAIC FORMATION
Weathered Shale

End of boring @ 20'

Note: Subsequent drilling of adjacent bedrock well MW-14D revealed the depth to the Passaic formation at 37.0 ft.

REMARKS

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: DC-B12

Project: *LCP Superfund Site*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *10/3/01*
Finish Date: *11/30/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *Handex / ADT Diamond*
Equipment: *Auger rig (CME 75)*
Method: *HSA (casing) / Mud rotary (boring)*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*NA*
Diameter (ID):	*2"*	*NA*
Coupling:	*NA*	*NA*

WELL DEVELOPMENT

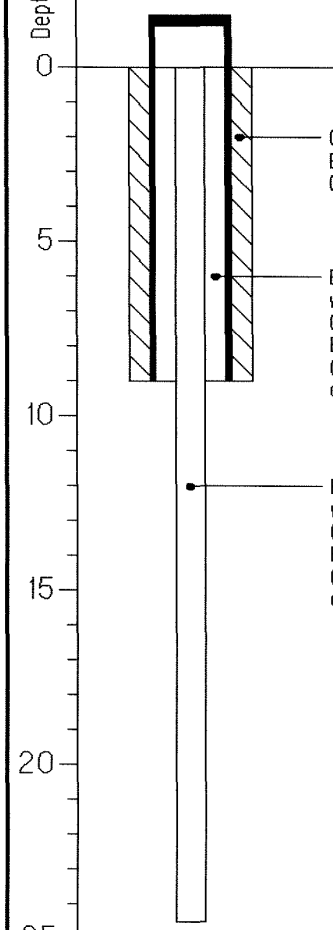
Method: *NA*
Duration: *NA*
Gals. Purged: *NA*
Slug Test: *NA* (cm/sec)

SURVEY DATA
DATUM: NA

Grade: *7.21*
TWC: *NA*
TPC: *NA*
North: *646152.05*
East: *572422.12*

Geophysical Log: ☐ yes ☒ no
Comments:

WELL CONSTRUCTION



SAMPLE DATA

Samp. No. / Run No.	Blows/ 6 in. / Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)
S-1	32-28	.5	GW	NA
S-2	6-34-30	.2	GW	NA
S-3	2-5-4-37	0	NA	NA
S-4	10-7-2-1	1	GW/PT	NA
S-5	9-8-2-1	1	GW/PT	NA
S-6	1-1-1-1	1.7	OL	NA
S-7	wt. of h.	2	OL	NA
S-8	4-8-8-13	2	OL	NA
S-9	10-8-12-13	1	SC	NA
S-10	15-6-6-6	.8	CL	NA
S-11	8-8-5-11	1.5	CL	NA

VISUAL CLASSIFICATION

FILL
@ 0' Medium brown fmc GRAVEL, some to no Clay, little to no mfc Sand

7

TIDAL MARSH DEPOSIT (Peat)
@ 7' PEAT

(Organic silt)
@ 11' Dk gray CLAY, some to little Peat, some to no f Sand

16

GLACIAL TILL
@ 16' Reddish brown f SAND, some- Silt
@ 17' Reddish brown fm SAND AND CLAY, little f Gravel
@ 20.5' Reddish brown CLAY to Silty CLAY, trace to little f Sand, trace to no fm Gravel

End boring @ 24.5'

REMARKS

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: 230-B1

Project: *LCP Superfund Site*
Client: *LCP*
Project No.: *21405.102*
Start Date: *10/2/01*
Finish Date: *11/29/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *Handex / ADT Diamond*
Equipment: *Auger rig (CME 75)*
Method: *HSA (casing) / Mud rotary (boring)*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*NA*
Diameter (ID):	*4"*	*NA*
Coupling:	*NA*	*NA*

WELL DEVELOPMENT

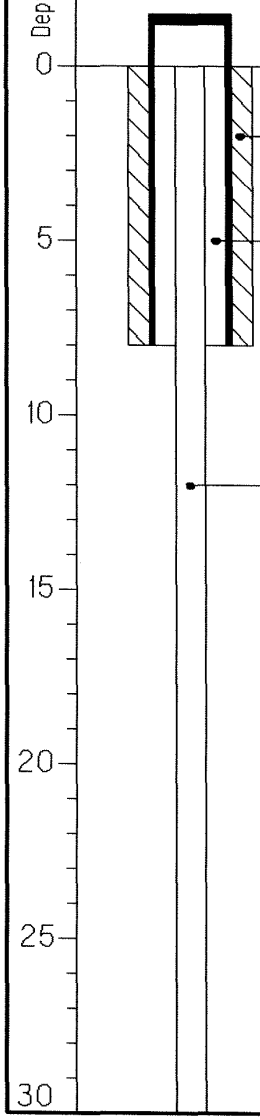
Method: *NA*
Duration: *NA*
Gals. Purged: *NA*
Slug Test: *NA* (cm/sec)

SURVEY DATA

DATUM: NA
Grade: *7.64*
TWC: *NA*
TPC: *NA*
North: *646620.13*
East: *572149.43*

Geophysical Log: ☐ yes ☒ no
Comments:

WELL CONSTRUCTION / SAMPLE DATA



Samp. No. (soil) / Run No. (rock)	Blows/6 in. / Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)
S-1	NA	.5	SC	NA
S-2	NA	.5	SW	NA
S-3	2-5-2-5	.8	SC	NA
S-4	1-1-2-2	1.5	PT	NA
S-5	wt-1-1-1	2	PT	NA
S-6	wt-1-1-1	1	PT	NA
S-7	1-2-3-2	1	SM	NA
S-8	2-4-8-8	1	SM	NA
S-9	5-8-12-9	1.5	CL	NA
S-10	4-4-8-9	1.5	CL	NA
S-11	5-6-7-8	1.5	CL	NA

VISUAL CLASSIFICATION

FILL
@ 0' Medium brown fm SAND, no to AND CLay, little to no Organics

6

TIDAL MARSH DEPOSIT (Peat)
@ 6' PEAT

(organic silt)
@ 10.9' Gray CLAY & SILT

12

GLACIAL FLUVIAL DEPOSIT
@ 12' Gray fm SAND, little Silt

14.5

GLACIAL TILL
@ 14.5' Reddish brown CLAY & SILT, little fm Gravel, trace m Sand

@ 29' Reddish brown Silty CLAY

REMARKS

Samples from 0 - 4' were collected using direct-push rig.

BROWN AND CALDWELL	Subsurface Boring Log	Well Name/Location: 230-B1
Project: *LCP Superfund Site*	Project No.: *21405.102*	Start Date: *10/2/01*
Client: *LCP*		Finish Date: *11/29/01*

Depth (feet)	WELL CONSTRUCTION	soil / rock	SAMPLE DATA					(CONTINUATION)	
		Samp. No.	Blows/ 6 in.	Rec. (ft.)	USCS	HNU (ppm)			
		Run No.	Hydraul. Cond. cm/sec	Rec. (ft.)	RQD			VISUAL CLASSIFICATION	REMARKS
30		S-11	5-6-7-8	1.5	CL	NA			
35		S-12	4-5-50/3	1.5	CL	NA		35 / 38	
40									
45									
50									
55									
60									
65									
70									

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: **231-B1**

Project: *LCP Superfund Site*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *11/19/01*
Finish Date: *11/27/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *ADT Diamond*
Equipment: *Auger Rig (CME 75)*
Method: *HSA (casing) / Mud Rotary (boring)*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*NA*
Diameter (ID):	*4"*	*NA*
Coupling:	*NA*	*NA*

WELL DEVELOPMENT

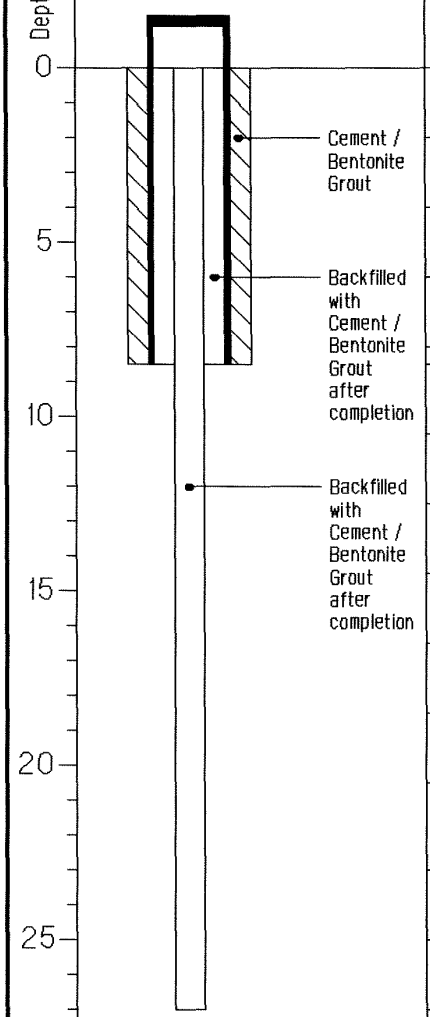
Method: *NA*
Duration: *NA*
Gals. Purged: *NA*
Slug Test: *NA* (cm/sec)

SURVEY DATA

DATUM: NA
Grade: *8.14*
TWC: *NA*
TPC: *NA*
North: *646437.01*
East: *572458.32*

Geophysical Log: ☐ yes ☒ no
Comments:

WELL CONSTRUCTION



SAMPLE DATA

Samp. No. / Run No.	Blows/ 6 in. / Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)
S-1	4-4-5-5	.3	SW	NA
S-2	4-2-1-2	.5	CL	NA
S-3	1-1-1-2	1	CL	NA
S-4	3-5-2-1	1.5	CL/PT	NA
S-5	4-4-11-13	1	PT	NA
S-6	1-1-1-1	1	OL/PT	NA
S-7	1-1-1-2	.3	ML	NA
S-8	1-2-3-2	1.5	SM	NA
S-9	9-11-12-15	1.5	PT	NA
S-10	5-6-7-7	1	SM	NA
S-12	4-5-11-15	.2	GC	NA
S-13	13-10-11-10	1.5	ML	NA

VISUAL CLASSIFICATION

FILL
@ 0' Medium brown fmc SAND, trace Organics
@ 2' Medium brown CLAY, little to AND mc Sand, little to no m Gravel
@ 6.9' Black wood debris coated in a petroleum product (7)
TIDAL MARSH DEPOSIT (Peat)
@ 7' PEAT
(Organic silt)
@ 10.5' Dk Gray organic rich CLAY, occasional peat, H2S odor
@ 12.5' Dk. Brown SILT, spongy texture, some f Sand, H2S odor
@ 14.5' Medium brown f SAND, some Silt, traces of Organic material (16.5)
@ 15.5' Dk. Gray fm SAND
GLACIAL FLUVIAL DEPOSIT
@ 16.5' Gray to grayish brown fm SAND, some to AND Silt, uniform to mottled
GLACIAL TILL
@ 17.7' Reddish brown some to AND Silt, some to AND fm Sand, trace to little fm Gravel
@ 23' Reddish brown c Gravel, some Clay
@ 25' Reddish brown SILT & CLAY, little fm Gravel (27)
End boring @ 27'

REMARKS

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: BT-B5

Project: *LCP Superfund Site, Linden, NJ*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *10/2/01*
Finish Date: *11/28/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *Handex / ADT Diamond*
Equipment: *Auger rig (CME 75)*
Method: *HSA (casing) Mud rotary (boring)*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*NA*
Diameter (ID):	*4"*	*NA*
Coupling:	*NA*	*NA*

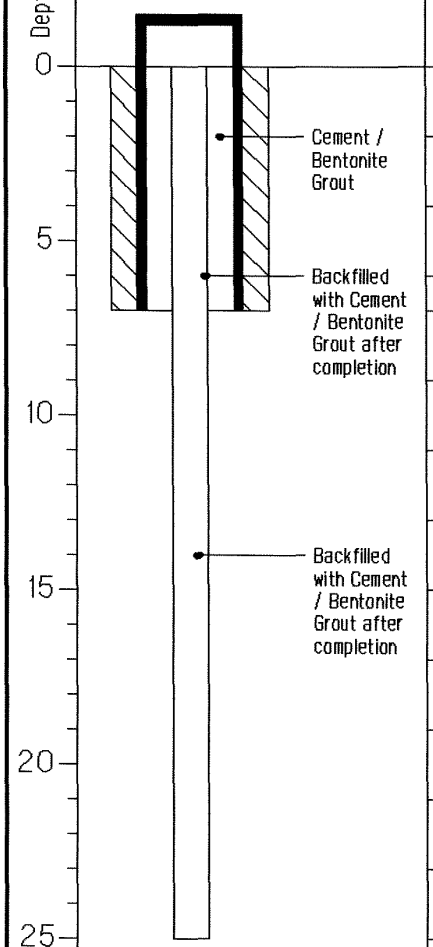
WELL DEVELOPMENT

Method: *NA*
Duration: *NA*
Gals. Purged: *NA*
Slug Test: *NA* (cm/sec)

SURVEY DATA

DATUM: NA
Grade: *7.80*
TWC: *NA*
TPC: *NA*
North: *646700.81*
East: *572430.73*

Geophysical Log: ☐ yes ☒ no
Comments:



Samp. No. / Run No.	Blows/6 in. / Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)	VISUAL CLASSIFICATION	REMARKS
S-1	8-9-5-3	1	GC	NA	FILL @ 0' Dk brown fm GRAVEL AND CLAY, little fmc Sand, trace organics	
S-2	5-7-7-12	1.5	CL	NA	@ 2.5' Red CLAY, little f Gravel	
S-3	1-2-5-3	2	CL/PT	NA	5.5	
					TIDAL MARSH DEPOSIT (Peat) @ 5.5' PEAT, H2S odor	
S-4	wt. of h.	1	PT	NA		
S-5	wt. of h.	2	PT	NA		
					(Organic silt)	
S-6	wt. of h.	.5	CL	NA	@ 10.5' Gray to brown CLAY, some organics, H2S odor	
S-7	wt. of h.	1.5	OL/PT	NA	@ 13' Dk Gray CLAY, some organics, little to no mc Gravel, H2S odor	
					18	
S-8	2-6-3-3	2	CL	NA	GLACIAL FLUVIAL DEPOSIT @ 18' Medium Gray to brown fm SAND, little Silt, homogenous to mottled	
S-9	4-4-5-6	1.5	SM	NA	19	
S-10	3-8-8-10	1	SW	NA	GLACIAL TILL @ 19' Reddish brown f SAND, little f Gravel, trace Silt	
S-11	6-10-10-10	1	ML	NA	@ 21' Reddish brown SILT & CLAY, little plus fm Gravel, little f Sand	
S-12	5-9-10-10	1	ML	NA	@ 23' Reddish brown SILT and f SAND, little fm Gravel	
					25	
					End of boring @ 25'	

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: HF-B3

Project: *LCP Superfund Site*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *10/02/01*
Finish Date: *11/28/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *Handex / ADT Diamond*
Equipment: *Auger rig (CME 75)*
Method: *HSA (casing) / Mud rotary (boring)*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*NA*
Diameter (ID):	*4"*	*NA*
Coupling:	*NA*	*NA*

WELL DEVELOPMENT

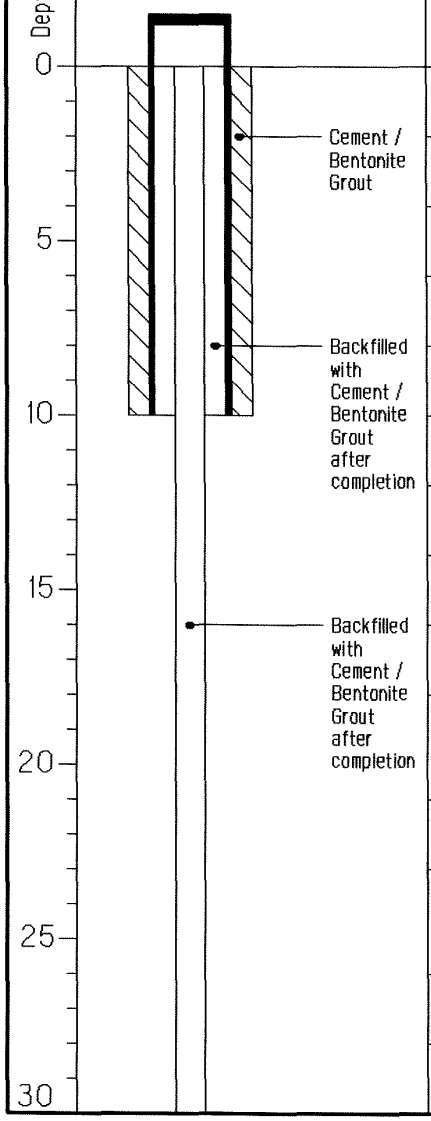
Method: *NA*
Duration: *NA*
Gals. Purged: *NA*
Slug Test: *NA* (cm/sec)

SURVEY DATA

DATUM: NA
Grade: *7.59*
TWC: *NA*
TPC: *NA*
North: *646916.76*
East: *571629.19*

Geophysical Log: ☐ yes ☒ no
Comments:

WELL CONSTRUCTION



SAMPLE DATA

Samp. No. (soil) / Run No. (rock)	Blows/ 6 in. / Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)
S-1	4-6-2-8	1	CL	NA
S-2	11-9-10-10	1.5	CL	NA
S-3	10-6-4-5	1	CL	NA
S-4	5-2-2-2	1	CL	NA
S-5	2-1-1-1	2	CL/PT	NA
S-6	1-1-1-1	2	PT	NA
S-7	1-2-1-1	2	PT	NA
S-8	1-1-2-5	1	CL	NA
S-9	3-5-7-8	1	ML	NA
S-10	3-5-8-10	1.5	ML	NA
S-11	3-5-7-8	1	ML	NA

VISUAL CLASSIFICATION

FILL
@ 0' Medium brown CLAY, some fmc Sand, little mc Gravel
@ 2' Red to reddish brown CLAY some to no m Gravel, little to no fm Sand

8.5

TIDAL MARSH DEPOSIT (Peat)
@ 8.5' PEAT

(Organic silt)
@ 10.5' Dk. Gray CLAY AND PEAT

13.5

GLACIAL FLUVIAL DEPOSIT
@ 13.5' Dk gray to brown CLAY, little to no Gravel, uniform to mottled

14.5

GLACIAL TILL
@ 14.5' Red brown CLAY & SILT, some to little plus fm Gravel, little to no f Sand

REMARKS

BROWN AND CALDWELL	Subsurface Boring Log	Well Name/Location: HF-B3
Project: *LCP Superfund Site*	Project No.: *21405.102*	Start Date: *10/02/01*
Client: *ISP - ESI*		Finish Date: *11/28/01*

Depth (feet)	WELL CONSTRUCTION	soil / rock	SAMPLE DATA					(CONTINUATION)	
		Samp. No.	Blows/ 6 in.	Rec. (ft.)	USCS	HNU (ppm)			
		Run No.	Hydraul. Cond. cm/sec	Rec. (ft.)	RQD			VISUAL CLASSIFICATION	REMARKS
30									
		S-12	6-8-15-44	1	GC	NA		@ 31' Reddish brown fm GRAVEL AND CLAY	
								33	
								PASSAIC FORMATION (Weathered Rock)	Top of Weathered rock based on driller
35									
		S-13	50/2.5	.3	GC	NA		@ 38' Red brown fm GRAVEL AND CLAY, some pieces of shale	38.2
								End boring @ 38.2	
40									
45									
50									
55									
60									
65									
70									

BROWN AND CALDWELL

Subsurface Boring Log

Well Name/Location: MW-B16

Project: *LCP Superfund Site, Linden, NJ*
Client: *ISP - ESI*
Project No.: *21405.102*
Start Date: *10/03/01*
Finish Date: *11/26/01*

DRILLING DATA

Inspector: *JLP*
Contractor: *Handex / ADT Diamond*
Equipment: *Auger rig (CME 75)*
Method: *HSA (casing) / Mud rotary (boring)*

SAMPLING METHODS

	Sampler	Tube	Core
Type:	*Split Spoon*	*NA*	*NA*
Diameter:	*2"*	*NA*	*NA*
Other:	*NA*	*NA*	*NA*

WELL CONSTRUCTION

	Riser	Screen
Material:	*PVC*	*NA*
Diameter (ID):	*4"*	*NA*
Coupling:	*NA*	*NA*

WELL DEVELOPMENT

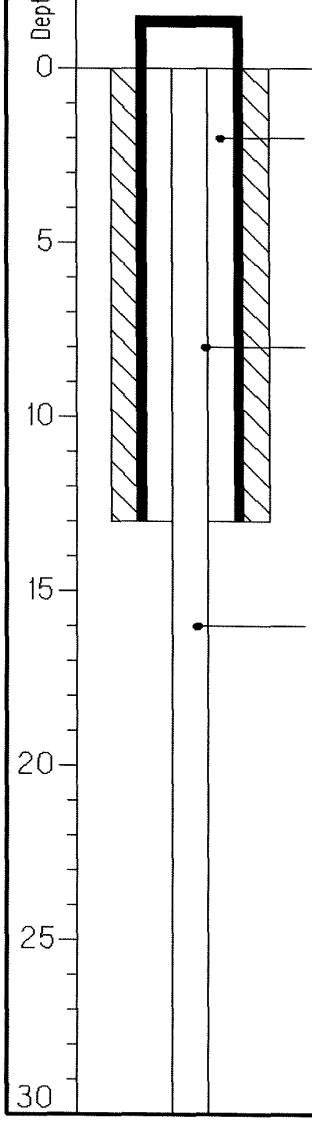
Method: *NA*
Duration: *NA*
Gals. Purged: *NA*
Slug Test: *NA* (cm/sec)

SURVEY DATA

DATUM: NA
Grade: *6.35*
TWC: *NA*
TPC: *NA*
North: *647001.29*
East: *572297.59*

Geophysical Log: ☐ yes ☒ no
Comments:

WELL CONSTRUCTION



SAMPLE DATA

Samp. No. / Run No.	Blows/ 6 in. / Hydraul. Cond. cm/sec	Rec. (ft.)	USCS / RQD	HNU (ppm)
S-1A	50/5	.3	SW	
S-2A	26-38-50	0	NA	
S-3A	5-7-7-6	1	GW	
S-4A	2-3-4-4	1.2	GW	
S-5A	2-4-4-3	1	GW	
S-6A	2-2-1-1	.7	GW	
S-1	1-1-1-2	1.5	OL	
S-2	10-10-11-14	2	OL/PT	
S-3	9-9-10-12	2	SW	
S-4	14-15-14-50/4	2	SM	
S-5	2-4-6-9	1.5	ML	
S-6	3-5-7-9	1.5	ML	

VISUAL CLASSIFICATION

FILL
@ 0' Brown fmc SAND, little f Gravel

@ 4' Black f GRAVEL, some fmc Sand, saturated

11

TIDAL MARSH DEPOSIT (Peat)
@ 11' PEAT

(Organic silt)
Lt grayish brown Clayey SILT, strong H2S odor, saturated

@ 16' Lt gray fm SAND, trace to AND Silt, trace to no f Gravel, H2S odor

18

GLACIAL FLUVIAL DEPOSIT
@ 18' Reddish brown SILT, trace f Sand, slightly stratified

20.5

@ 19 ft Dk Gray fm SAND, trace Silt

GLACIAL TILL
@ 20.5' Reddish brown f SAND AND SILT, little f Gravel, little mc Sand

@24' Red brown CLAY & SILT, little to no f Gravel, trace fmc Sand

REMARKS

BROWN AND CALDWELL	Subsurface Boring Log	Well Name/Location: MW-B16
Project: *LCP Superfund Site, Linden, NJ*	Project No.: *21405.102*	Start Date: *10/03/01*
Client: *ISP - ESI*		Finish Date: *11/26/01*

Depth (feet)	WELL CONSTRUCTION	soil / rock	SAMPLE DATA				(CONTINUATION)	
		Samp. No.	Blows/ 6 in.	Rec. (ft.)	USCS	HNU (ppm)		
		Run No.	Hydraul. Cond. cm/sec	Rec. (ft.)	RQD		VISUAL CLASSIFICATION	REMARKS
30		S-6	3-5-7-9	1.5	ML			
35		S-7	3-5-7-8	1.5	ML		@34' Red brown SILT & CLAY, trace fm Sand, little fm Gravel	
							38 PASSAIC FORMAITON	Top of Weathered rock according to the driller
40		S-8	50/3	.3	NA		@39' Red brown weathered shale 39.5 End of boring @ 39.5	
45								
50								
55								
60								
65								
70								

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **ADS-101** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	8.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/4/06 - 12/4/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.1 ft.	Easting: 571720.5 ft. Northing: 646904.2 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		ML CL	**FILL** Moist, Blk-brwn SILT & CLAY, some (-) cmf Sand. @ 0.3 Brwn-gray SILT & CLAY, little (+) cmf Sand, trace (-) cmf Gravel.	NA	1					.3- .032	Collected ADS-101-0-1 Collected ADS-101-1-3
5		ML CL	Wet, Red-brown. Same as above.	NA	2					0.1- .028	
		SW	Tan-orange cmf SAND.								
		ML	**TIDAL MARSH DEPOSITS** Black Clayey SILT, little (+) Organics, wet.								End of Boring @ 8.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **ADS-102** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	8.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/4/06 - 12/4/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 7.9 ft.	Easting: 571702.8 ft. Northing: 646879.3 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		CL ML	**FILL** Blk Silty CLAY, some (-) cmf Sand, Dry. @ 0.4 Red-brwn SILT & CLAY, little (-) cmf Sand, trace (+) fmc Gravel.		1					0.0- .007	Collected ADS-102-0-1.5
5		CL ML	Wet, as above.		2					1.4- .013	Collected ADS-102-7-8
		ML	**TIDAL MARSH DEPOSITS** Black Clayey SILT, some (-) Organics.								

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LB-101** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	11.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/6/06 - 12/6/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: --	Easting: -- Northing: -- TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		SP	**FILL** Moist, Tan-brwn cmf SAND.		1					NR	Sampled LB-101-0-1
		SW	Blk cmf SAND.								
		SP	Moist, as above.		2					NR	
5											
		SP	Wet, Blk cmf SAND.		3					NR	
		SW	Blk cmf SAND, little (-) Gravel.								
10		CL	**TIDAL MARSH DEPOSITS** Gray cm CLAY, some (-) Organics.								End of boring @ 11.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LB-102** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	11.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/6/06 - 12/6/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: --	Easting: -- Northing: -- TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		SP	**FILL** Brwn cmf Sand, moist. Concrete fragments.		1					NR	Sampled LB-102-0-1
		SP	Blk cmf SAND, Wet.		2					NR	Sampled LB-102-1-3
5											
					3					NR	
10		CL	**TIDAL MARSH DEPOSITS** Gray Silty CLAY, some (-) Organics.								End of boring @ 11.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LB-103** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	11.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/6/06 - 12/6/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: --	Easting: -- Northing: -- TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		SP	**FILL** Concrete. Tan-Brwn cmf SAND, moist @ 1.1 Blk cmf SAND.	NA	1					NR	Sampled LB-103-0-1
		SP	Wet, same as above.	NA	2					NR	
5		ML CL SP	Red-brwn SILT & CLAY, some (-) fmc Gravel. Wet, Blk cmf SAND.								
		SP	Wet, same as above.	NA	3					NR	
10		CL	**TIDAL MARSH DEPOSITS** Blk Silty CLAY, some (-) Organics.								End of boring @ 11.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-101** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	12.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/4/06 - 12/4/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.1 ft.	Easting: 571462.2 ft. Northing: 646731.4 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		GP	**FILL** Moist, Blk brwn cmf GRAVEL, some (-) cmf Sand, little (+) Silt & Clay. @ 1.1' Red cmf SAND, some (-) Silt & Clay, little (-) fm Gravel.		1					0.1-.000	
5					2					NR	
		SP GP	Blk cmf SAND, little (-) fm Gravel, Wet @ 6.7'.								Sample LHP-101-5-8
					3					0.0-.000	
10		CL ML	**TIDAL MARSH DEPOSITS** Brwn SILT & CLAY, some (+) Organics.								

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-102** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	8.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/4/06 - 12/4/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.3 ft.	Easting: 571555.9 ft. Northing: 646797.2 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		SP GP	**FILL** Moist, cmf GRAVEL, little (+) Silty Clay. @ 0.3 Blk cmf SAND, trace (+) f Gravel. @ 1.4 Red brwn Silty CLAY, some (-) cmf Sand.		1					0.0- .007	Sampled LHP-102-0-1
					2					0.0- .008	
5		SP	Blk cmf SAND, little (-) Silty Clay.								Sampled LHP-102-7-9
					3					1.4- .013	
		CL	**TIDAL MARSH DEPOSITS** Gray-blk Silty CLAY, some (-) Organics.								
											End of boring @ 12.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-103** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	12.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/4/06 - 12/4/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 9.4 ft.	Easting: 571700.9 ft. Northing: 646725.9 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		SP	**FILL**		1					0.5-.012	Sampled LHP-103-0-1
		GP	Black cmf GRAVEL and to some (-) cmf								Sampled LHP-103-1-3
		SP	Sand AND to no Silt & Clay, dry.								
		GP	White cmf SAND, some (-) mf Gravel. @								
		SP	1.7 Black cmf SAND. @ 2.1 Red-brown								
		GP	Clayey SILT, some (-) cmf Sand. Concrete, brick and wood.								
			Same as above, wet at 4.0.		2					NR	
5											
		SP	Black cmf SAND, little (+) Silt & Clay.		3					NR	
		CL	**TIDAL MARSH DEPOSITS**								
10			Gray black Silty CLAY, some (-) Organics.								
											End of boring @ 12.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-104** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	12.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/4/06 - 12/4/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.8 ft.	Easting: 571804.7 ft. Northing: 646690.7 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		GP	**FILL** Blk cmf GRAVEL, asphalt. @ 0.4 Tan cmf SAND.		1					0.0-.013	Sampled LHP-104-0-1
5		GP SP	Blk cmf SAND, little (-) Gravel.		2					0.0-.579	Sampled LHP-104-7-9
		GP SP	Same as above, wet.		3					0.0-.009	
10		CL	**TIDAL MARSH DEPOSITS** Gray Silty CLAY, some (-) Organics. @ 11.0 Blk fmc SAND, some (-) Silty Clay, little (-) organics.								End of boring @ 12.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-105** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	8.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/4/06 - 12/4/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.2 ft.	Easting: 571851.9 ft. Northing: 646670.0 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		SP	**FILL** Brwn cmf SAND, little (+) cmf Gravel, dry.		1					NR	Sampled LHP-105-0-1 Sampled LHP-105-1-3
5		SP	Blk cmf SAND, wet.		2					0.2/.012	
		CL	**TIDAL MARSH DEPOSITS** Gray-blk Silty CLAY, some (-) Organics.								End of boring @ 8.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-106** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	12.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/4/06 - 12/4/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.5 ft.	Easting: 571869.1 ft. Northing: 646636.1 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		ML CL SP	**FILL** Blk-brwn SILT & CLAY, some (-) cmf Sand, little (-) fm Gravel. Blk cmf SAND.	NA	1					0.7- .000	Sampled LHP-106-0-1 Sampled LHP-106-1-3
5				NA	2					0.0- .000	
				NA	3					0.0- .000	
10		CL ML	**TIDAL MARSH DEPOSITS** Gray-blk Silty CLAY, some (-) Organics. @ 11.2' Gray Silty CLAY.								

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-107** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	8.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/4/06 - 12/4/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.8 ft.	Easting: 571897.3 ft. Northing: 646614.1 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		SP	**FILL** Blk-gray cmf SAND, trace (+) Silt & Clay, dry. Cinders.	NA	1					NR	Sampled LHP-107-0-1
5		SP	Same as above, wet.	NA	2					0.1-.007	Sampled LHP-107-5-7
		CL	**TIDAL MARSH DEPOSITS** Blk-gray Silty CLAY, some Organics.								End of boring @ 8.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-108** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	12.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/4/06 - 12/4/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 9.0 ft.	Easting: 571689.7 ft. Northing: 646649.7 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		SP GP SW	**FILL** Blk cmf GRAVEL, asphalt. @ 0.5 Brwn cmf SAND, some (-) cmf Gravel. Wet, Blk cmf SAND. @ 2.2 Red-brwn Silty CLAY, some (+) fmc Sand.	NA	1					NR	Sampled LHP-108-0-1
5		SP	Blk cmf SAND, little (+) Silt & Clay.	NA	2					NR	
10		ML CL	**TIDAL MARSH DEPOSITS** Gray SILT & CLAY, some (+) Organics.	NA	3					NR	
											End of boring @ 12.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-109** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	2"		NA"	12.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Continuous Core	Development Method:
12/4/06 - 12/4/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.6 ft.	Easting: 571810.0 ft. Northing: 646593.0 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		SW SM	**FILL** cmf SAND, some (-) Silt & Clay, little (-) fm Gravel. @ 0.4 Blk-gray cmf GRAVEL, some (-) cmf Sand.		1					NR	Sampled LHP-109-0-1
		SM ML	Red-brwn Silty CLAY, little (+) fm Sand. Wet at 6.2.								
5					2					NR	
		SW SM	Blk, wet, cmf SAND, some (-) Silt & Clay.		3					NR	
		CL ML	**TIDAL MARSH DEPOSITS** Gray Silty CLAY, some (-) Organics.								Sampled LHP-109-7-9
10											End of boring @ 12.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-124** Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
JMB/Allendale	SDM	8"		NA"	38.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
10/27/06 - 10/31/06	Advanced Drilling	Hammer Type: Manual	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 9.4 ft.	Easting: 571706.3 ft. Northing: 646701.2 ft. TOC Elev: NA ft.
C. Corner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		ASP	**ASPHALT**								
		ML CL	**FILL** Red SILT & CLAY, some (+) cfm Gravel and Sand. @ .7' Gray-tan cfm GRAVEL and cfm SAND, wet.	8-100/5	1					.4-0	Sampled LHP-124-.5-2
		ML CL	Red SILT & CLAY,some (-) to little (-) cfm Sand, dry. wet at 6'.	8-8-6-8	2					.4-.005	Sampled LHP-124-2-4
5				5-10-7-5	3					.5-0	
		FILL	Red SILT & CLAY, some (-) cfm Gravel and cfm Sand, wet.	10-1-5-2	4					.5-0	
		CL ML	**TIDAL MARSH DEPOSITS** Blk-green Silty CLAY, some (+) gray-yellow Organic material, trace (-) f Sand, wet.	1-1-1-1	5					0	
10				1/18-1	6					0-.011	4-inch casing grouted in place. Sampled LHP-124-10-12.
				1-2-1-4	7					0-0	
		CL ML	**GLACIAL TILL** Red-brwn-blk Silty CLAY, some (+) fm Sand, wet.	3-6-7-8	8					0-0	
15		ML CL	Red-brwn-black SILT & CLAY, some (+) mf Sand, some to little cfm Gravel, wet.	2-4-5-6	9					0-0	
				5-6-6-6	10					0-0	
20				6-6-9-13	11					0-0	
		ML CL	Red-brwn SILT & CLAY, some (+) cmf Gravel, some (-) mf Sand, wet.	7-12-8-12	12					0-0	
25		ML CL	Red-brwn SILT & CLAY, little (-) cmf Sand, trace (-) mf Gravel, wet.	13-15-16-22	13					0-0	
		CL	Red-brwn Silty CLAY, little (+) mf Sand, trace (-) mf Gravel. Displays relic bedding.	8-10-12-13	14					0-0	
		ML CL	Red-Brwn Silty CLAY, trace (-) mf Sand, wet. @ 28.7' Red brwn Silty CLAY, little (-) mf Sand, trace (-) mf Gravel, compacted, displaying relic bedding.	7-10-1-13	15					0-0	Sampled LHP-124-28-30
30		CL	Red-brwn-gray Silty CLAY, some (-) to little	14-27-16-15	16					0-0	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. LHP-124 Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
			(+) mf Gravel, trace (-) cmf Sand, wet.								
				14-52-27-17	17					0-0	
		CL	Red-brwn Silty CLAY, some (+) mf Gravel, trace (-) mf Sand, wet.	15-16-38-55	18					0-0	
35											
		ML CL	Red-Brwn SILT & CLAY, some (+) cmf Gravel, little (+) Sand, wet.	25-100/4	19					0-0	
			PAISSIC FORMATION Red-brwn Siltstone.								End of Boring @ 38.0'

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-125** Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
JMB/Allendale	SDM	8"		NA"	36.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon Hammer Type: Manual	Development Method:
10/27/06 - 11/1/06	Advanced Drilling		NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 9.0 ft.	Easting: 571751.9 ft. Northing: 646629.1 ft. TOC Elev: NA ft.
C. Corner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		ASP	**ASPHALT**								
		GW SW	**FILL** Brwn-Orange cfm GRAVEL and cfm SAND, some (+) Silt & Clay, wet.	18-32-20	1					.4-.021	Sampled LHP-125-.5-2
		GW SW ML CL	Brwn cfm GRAVEL and cfm SAND, some (+) Silt & Clay. Grading to Red SILT & CLAY, wet.	12-4-8-1	2					.4-.005	
5				6-5-4-3	3					.5-.041	Sampled LHP-125-4-6
				6-5-5-3	4					0-.031	
		GW SW	Blk cfm GRAVEL and cfm SAND, some (+) Silt & Clay.	2-1-1-1	5					.5-0	
		CL	**TIDAL MARSH DEPOSITS** Blk green Silty CLAY, Some (+) Organics, wet.								
10		CL ML	Blk Silty CLAY, some (+) Organics. Peat. @ 11.6 Blk gray Silty CLAY, wet.	3-2-2-5	6					0-.014	Sampled LHP-10.5-12
		ML CL	**GLACIAL TILL** Red-brwn SILT & CLAY, little (+) fmc Sand, trace (+) fm Gravel, wet.	8-13-15-22	7					0-.006	Sampled LHP-12-14 4-inch casing grouted in place.
15		ML	Red-brwn Clayey SILT, little (+) to some (-) fmc Sand, trace (+) to little (-) fmc Gravel, wet.	13-16-18-21	8					.7-.005	
				8-12-26-22	9					.1-0	
				18-22-21-23	10					0-0	
20		CL ML	Red-brwn CLAY & SILT, little (+) fmc Sand, trace (+) fmc Gravel, wet.	8-12-17-35	11					.6-0	
				26-22-24-35	12					1.7-0	
25		CL	Red-brwn Silty CLAY, little (+/-) fm Sand, trace (-) c Gravel, wet.	26-34-25-33	13					NR	
				12-16-18-17	14					.6-0	
		CL ML	Red-brwn Clayey SILT. Apparent relic bedding, wet.	8-10-12-10	15					NR	
30		ML CL	Red brwn blk cmf SAND. @ 29.55' Red-brwn SILT & CLAY, little (+) fmc	7-14-21-27	16					NR	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-125** Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	PID/MVA Readings (ppm)	Remarks
		ML CL	Sand, trace (+) fm Gravel, wet. Red-brwn, SILT & CLAY, some (-) cmf Sand, little fmc Gravel, wet.	20-23-30-38	17					NR	
				100/.5	18					NR	
35		BR	**PASSAIC FORMATION** Red-brwn Siltstone, weathered BR, bedding evident.								End of boring @ 36.0'

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-126** Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	8"		NA"	38.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
10/26/06 - 11/1/06	Advanced Drilling	Hammer Type: Manual	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.5 ft.	Easting: 571856.9 ft. Northing: 646622.4 ft. TOC Elev: NA ft.
R. Empson	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log (Sample Int, Recovery, Lithology, Backfill)	PID/MVA Readings (ppm)	Remarks
			CONCRETE					
		GP GP	**FILL** Gray cmf GRAVEL and cmf SAND, little (-) Silt, wet. Brwn blk mf GRAVEL and cmf SAND, some (-) Silt & Clay. Chunks of brick, wet.	2-2-2-4	1		0- .001	Sampled LHP-126-2-4
				2-5-4-3	2		0-0	
5				4-4-3-4	3		0-0	
				2-2-2-2	4		0-0	Sampled LHP-126-8-10
10		CL GP GC CL ML CL	**TIDAL MARSH DEPOSIT** Blk-green Silty CLAY, some (+) Organics, wet. Blk cmf GRAVEL and cmf SAND, some (+) Silt & Clay, little (+) Organics, wet. Blk-gray-green Silty CLAY, some (+) mf Sand, little (+) Organics, wet.	1-1-1-4	5		.3- .061	Odor
				1-4-5-6	6		1.1- .013	Odor
		ML CL	**GLACIAL TILL** Red-gray Silty CLAY, some (+) mf Sand, wet. Red-brwn Silty CLAY, little (-) cmf Gravel, trace (+) mf Sand, wet.	4-3-8-7	7		2.1- .005	
15				13-18-24-22	8		.3-0	
		ML CL	Red-brwn SILT & CLAY, little (+) cmf Gravel, trace (+) mf Sand, wet.	13-12-18-13	9		0-0	
20				16-16-14-13	10		0-0	Evidence of basalt
				17-14-18-18	11		.1-0	
25				18-22-48-16	12		2.2- 0	
				6-5-7-11	13		2.1- 0	
				11-22-15-17	14		.4-0	
30		ML	Red-brwn Silty CLAY, trace (+) mf Gravel,	7-6-6-9	15		3.0- 0	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. LHP-126 Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		CL	wet.	7-7-6-8	16					.2-0	
35		ML CL	Red-brwn SILT & CLAY, little (+) cmf Gravel. Weathered rock in shoe, evidence of bedding.	5-11-13-14	17					.1-0	
		BR	**BEDROCK** Red-brwn Siltstone, bedding evident, (weathered bedrock).	27-34-84-100/5	18					0-0	End of boring @ 38.0'

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-127** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	8"		NA"	12.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
12/6/06 - 12/6/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 7.5 ft.	Easting: 571843.0 ft. Northing: 646699.0 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		SP	**FILL** Moist, Blk fmc SAND, little (+) fmc Gravel, trace (+) Silt & Clay, wet @ 3.0.	NA	1					NR	Sampled LHP-127-0-1
											Sampled LHP-127-3-5
5				NA	2					NR	
		SP	Blk cmf SAND, some (-) fm Gravel, trace (+) Clayey Silt, wet.								
				NA	3					NR	
10		CL	**TIDAL MARSH DEPOSITS** Gray-blk Silty CLAY, some (-) Organics.								
											End of boring @ 12.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LHP-128** Page 1 of 1

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	8"		NA"	8.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
12/6/06 - 12/6/06	TPI	Hammer Type: NA	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 7.5 ft.	Easting: 571815.0 ft. Northing: 646716.0 ft. TOC Elev: NA ft.
TPI	Geoprobe	Geoprobe		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Recovery	Lithology	Backfill	PID/MVA Readings (ppm)	Remarks
		SP	**FILL** Damp, Blk cmf SAND, some (-) Clayey Silt, wet @ 2.6'	NA	1					NR	Sampled LHP-128-0-1
5				NA	2					NR	
		CL	**TIDAL MARSH DEPOSIT** Gray-blk Silty CLAY, some (-) Organics.								Sampled LHP-128-7-8 End of boring @ 8.0'

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **LP-101** Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
JMB/Allendale	SDM	8"		NA"	52.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
10/27/06 - 11/2/06	Advanced Drilling	Hammer Type: Manual	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 8.3 ft.	Easting: 572560.4 ft. Northing: 646544.2 ft. TOC Elev: NA ft.
C. Corner	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log (Sample Int / Recovery / Lithology / Backfill)	PID/MVA Readings (ppm)	Remarks
		SP GP	**FILL** Brwn mfc SAND, some (+) Silt & Clay, little mfc Gravel. Brick. @ 0.7 dry, Gray cfm GRAVEL, some (+) Sand, little (+) Silt & Clay.	15-19-22-28	1		.4-.008	
		SP SM	Red-brwn-tan mf SAND and SILT, some (+) Clay, little mfc Black Gravel, dry.	23-18-8-8	2		.4-.030	
5		SW SM CL ML	Brwn-blk-green mfc SAND and SILT, some (+) Clay, trace (-) mf Gravel, wet. Brwn-gray CLAY & SILT, wet. Fly ash.	1-1-1-1	3		.4-.030	
				1-1/12-1	4		.4-.012	
				1/12-1-1	5		.4-.707	Sampled LP-101-8-10
10		CL ML	**TIDAL MARSH DEPOSIT** Brwn-green Silty CLAY, some (+) Organics, wet.					
		CL ML	No sample collected. Blk-gray-green Silty CLAY, some (+) Organics, trace (+) cm Sand.	1-1	6		112-sat.	Odor, Sampled LP-101-11-13
		CL ML	Blk-gray green Silty CLAY, trace (+) mf Sand.	1-1	7		53.8-.914	Odor
15				2-2-4-3	8		35.1-sat.	Odor, Sampled LP-101-14-16
		SP	Gray-blk, mf SAND, trace (-) Silt, wet	1-1/12-1	9		3.0-.005	
		ML CL	Gray-Blk SILT & CLAY, some (+) mf Sand, wet.	2-4-2-11	10		0-.030	Odor
20		SP SM ML CL	**GLACIAL TILL** Red-gray cmf SAND, some (+) Silt, wet. Red-Brwn SILT & CLAY, some (+) cmf Gravel and cmf Sand, wet.	5-5-6-10	11		0-.003	
				5-2-7-8	12		0-.005	
25				5-10-11-8	13		0-.004	
				7-9-11-14	14		0-.013	Sampled LP-101-26-28
		ML CL	Red-brwn SILT & CLAY, little (+) mf Sand, trace (+) Gravel, wet.	6-9-13-11	15		0-.010	
30		ML	Red-brwn SILT & CLAY, some (+) cmf	4-4-5-9	16		0-.004	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. LP-101 Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	PID/MVA Readings (ppm)	Remarks
		CL	Gravel and cmf Sand, wet.					
				6-9-9-4	17		0-.011	
				14-14-9-15	18		0-.010	
35				5-9-11-13	19		0-0	
		ML CL	Evidence of weathered rock, relic bedding evident.					
		ML CL	Red-brwn SILT & CLAY, little (+) mf Sand, trace (+) mf Gravel, wet. Relic bedding evident.	7-14-17-29	20		0-0	
40		ML CL	Red brwn SILT & CLAY some (+/-) cfm Gravel, some (-) to trace (+) cmf Sand, wet. Evidence of Basalt @ 42 ft.	9-9-10-14	21		.2-0	
				14-17-19-22	22		4.3-0	
45		ML CL	Red-brwn SILT & CLAY, some (+) cfm Gravel and some (-) cfm Sand, wet.	27-38-43-41	23		.3-0	
				34-34-37-35	24		0-0	
				14-14-15-21	25		1.1-0	
50		BR	**BEDROCK** Red-brwn Siltstone, weathered bedrock with bedding evident.	45-100/5.5	26		1.2-.040	Sampled LP-101-50-52 End of boring @ 52.0'

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **WWT-101** Page 1 of 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
MPC/Allendale	SDM	8"		NA"	47.0 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
10/27/06 - 11/6/06	Advanced Drilling	Hammer Type: Manual	NA

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NAD83 Vert Datum: NGVD88 Ground Surface Elev: 9.4 ft.	Easting: 572035.5 ft. Northing: 646780.6 ft. TOC Elev: NA ft.
R. Empson	HSA	Failing 45		

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log (Sample Int / Recovery / Lithology / Backfill)	PID/MVA Readings (ppm)	Remarks
		SW	**FILL** Brown cmf SAND and SILT, some (+) Clay and cmf Gravel, dry.	5-4-5-6	1		.2-.001	
		GW SW	Brown cmf GRAVEL and mf SAND, some (+) Silt, some (+) Clay, wet. Grading @ 2.7 Red-brwn SILT & CLAY, some (+) cmf Sand, little cfm Gravel, wet. Chunks of brick	5-5-5-5	2			
5			No recovery.	1-1-1-2	3			
		CL ML	Red-Brown SILT & CLAY, some (+) cmf Sand, little (+) mf Gravel, wet. @ 6.7 Brown-Black-Red cm SAND & SILT, some (+) Clay wet.	3-2-2-5	4			
		SM	Red-Brown-Black cmf SAND and SILT, some (+) Clay, wet.	3-2-2-6	5		.4-0	Little Black NAPL droplets, rainbow sheen.
10		CL ML	Black Silty CLAY, some (+) cmf Sand, wet.	1-2-3-5	6		.3-0	
		SC	**TIDAL MARSH DEPOSITS** Black cmf SAND, some (-) Silt & Clay, trace (-) f Gravel, @ 13.3' Black Silty CLAY, wet.	2-2-5-3	7		.3-.730	NAPL, sheen on soil and liquid. Sample WWT-101-12-14. Blebs determined to be mercury beads with magnifying glass.
15		CL ML	Gray Silty CLAY, little (+) fm Sand,	3-3-4-6	8		5.2-.092	Sample WWT-15-17
		CL ML	**GLACIAL TILL DEPOSITS** Red-brown SILT & CLAY, little cmf to fmc Sand, wet.	7-7-8-12	9		5.6-.019	
20		ML CL	Red-brown Clayey SILT, little (+) fm Sand, wet.	12-11-10-9	10		6.1-.012	
		ML CL	Red-Brown SILT & CLAY, little (+) fmc Sand, wet.	6-4-7-10	11		4.7-.020	Sample WWT-21-23
		ML CL	Red-brwn Silty CLAY, little (+) fmc Sand, wet.	7-7-9-12	12		5.5-.011	
25				7-7-7-8	13		3.3-0	
				7-9-8-9	14		5.3-.005	
30		ML CL	Red-brown SILT & CLAY, little (-) fmc Sand, trace (-) fm Gravel, wet.	9-9-10-10	15		4.9-0	

P:\^clients\lcp\hydro_data\logs\131369_lcp-ri.gpj

BORING LOG

BROWN AND CALDWELL	Project Name: LCP-RI_131369 Project Number: 131369 Project Location: Linden, NJ	Permit Number: NA	Boring No. **WWT-101** Page 2 of 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	PID/MVA Readings (ppm)	Remarks
		ML CL	Red-brown Clayey SILT, little (+) fm Sand, wet.	7-9-10-10	16		1.3-.006	
				10-10-18-21	17		2.7-.003	
35		ML CL	Rounded cmf SAND. @ 34.4 returns to Red-brown Clayey SILT, little (-) fm Sand, wet.	11-12-12-19	18		2.4-.004	
		ML CL	Red-brown cmf SAND, little (+) Silt & Clay, trace (+) fmc Gravel, wet.					
		ML CL	Red-brown SILT & CLAY, some (-) fmc Sand, little fmc Gravel, wet.	14-18-19-41	19		2.9-.006	
40		ML CL	Red-brown cmf SAND, some (+) Silt & Clay, little (-) fmc Gravel. Gravel chunk of bedrock, wet.	27-18-14-18	20		3.7-.003	
		ML CL	Red-brown Clayey SILT, little (+) fmc Sand, wet,	8-9-14-15	21		3.1-.003	
		ML CL	Red-brown Clayey SILT, some (-) fmc Sand, little (-) fm Gravel, wet.	15-10-27-38	22		1.3-.003	
45		BR	**BEDROCK** Red-brown weathered Siltstone-Sandstone, cmf SAND, some (-) fmc Gravel, little (-) Silt & Clay, wet.	100/2	23		1.9-.003	

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
12K-B1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/6/2001	646,344.0	572,091.8			7.5						
12K-B1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	>250	SW	Med brown cmf SAND, some mf Gravel
12K-B1-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N		0	>250	CL	Red CLAY, little f gravel, dense
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N		0	45	CL	Red CLAY, some mf Gravel, dense
--	6.0 - 8.0	1.0	DP	Fill	N	N		0	8	CL	Red CLAY, some mf Gravel, dense @ 6.5 ft becoming Black mf GRAVEL, saturated
--	8.0 - 10.0	1.0	DP	Fill/TMD	N	N		0	23	GW/PT	Black mf GRAVEL, saturated @ 8.8 ft becoming PEAT.
--	10.0 - 12.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR
12K-B2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/6/2001	646,332.2	572,102.7			7.5						
12K-B2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	>250	GW	Med brown mf GRAVEL, some cmf Sand
12K-B2-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N		0	134	GW	Med brown mf GRAVEL, some cmf Sand @ 1 ft becoming Red CLAY, little f gravel
--	2.0 - 4.0	1.5	DP	Fill	N	N		0	69	CL	Red CLAY, little f gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	4.0 - 6.0	2.0	DP	Fill	N	N		0	34	CL	Red CLAY, little to some f gravel
--	6.0 - 8.0	1.0	DP	Fill	N	N		0	8	CL	Red CLAY, some mf Gravel @ 6.5 ft becoming Black mf GRAVEL, saturated
--	8.0 - 10.0	2.0	DP	Fill/TMD	N	N		0	15	GW/PT	Black mf GRAVEL, saturated @ 9 ft becoming PEAT.
--	10.0 - 12.0	2.0	DP	TMD	N	N		--	--	PT	Peat

150K-1

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/10/2001	646,285.0	572,462.9	6.52

150K-1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		>0.999	0.6	SM	Brown to brownish red f SAND, some Silt & Clay, little mf gravel
150K-1-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N		0.134	3.5	SM	Brown to brownish red f SAND, some Silt & Clay, little mf gravel @ 1 ft becoming CLAY, little mf gravel, little f sand
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.163	0.6	CL	Reddish brown CLAY, little f gravel, little f sand
--	4.0 - 6.0	2.0	DP	Fill	N	Y		0.027	9.1	CL	CLAY, little f sand @ 4.5 ft Blk cmf SAND, trace mf gravel @ 5 ft CLAY, blk stain @ 5.5 ft cmf SAND, tr mf grav, oily, sat
--	6.0 - 8.0	0.0	DP	Fill	--	--		--	--		NR
--	8.0 - 10.0	1.2	DP	Fill	N	Y		0.026	6	CL/SM	Reddish brown Clay, little mf gravel @ 8.3 ft becoming Black mf SAND, little silt, little mf gravel
--	10.0 - 12.0	0.0	DP	Fill?	--	--		--	--		NR
--	12.0 - 14.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR
--	14.0 - 16.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	16.0 - 18.0	2.0	DP	TMD	N	N	--	--	OL	Organic Silt
--	18.0 - 20.0	2.0	DP	TMD	N	N	--	--	OL	Organic Silt

230-B1

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
10/2/2001	646,620.1	572,149.4	7.637

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
230-B1-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0	38	SC	Med brown f SAND and CLAY, little organics
--	0.5 - 2.0	0.0	DP	Fill	--	--	--	--		NR
--	2.0 - 4.0	0.5	DP	Fill	N	N	0.011	12	SW	Med brown mf SAND, little organics
230-B1-4-6	4.0 - 6.0	0.8	2-5-2-5	Fill	N	N	0.015	1200	SC	Med brown mf SAND and CLAY
--	6.0 - 8.0	1.5	1-1-2-2	TMD	N	N	--	--	PT	PEAT
--	8.0 - 10.0	2.0	WOR-1-1-1	TMD	N	N	0.014	133	PT	PEAT
--	10.0 - 12.0	1.0	WOR-1-1-1	TMD	N	N	0.012	150	PT	PEAT @ 10.9 ft becoming Gray CLAY & SILT
--	12.0 - 14.0	1.0	1-2-3-2	GF	N	N	0.003	9	SM	Gray fm SAND, little silt
--	14.0 - 16.0	1.0	2-4-8-8	GF/GT	N	N	0.011	125	SM	Gray fm SAND, little silt @ 14.5 ft becoming Red brown CLAY & SILT, little f gravel, trace fm sand
--	19.0 - 21.0	1.5	5-8-12-9	GT	N	N	0.005	219	CL	Red brown CLAY & SILT, little fm gravel, trace m sand
--	24.0 - 26.0	1.5	4-4-8-9	GT	N	N	0.003	224	CL	Red brown CLAY & SILT, little fm gravel, trace m sand

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	29.0 - 31.0	1.5	5-6-7-8	GT	N	N	0.003	29	CL	Red brown Silty CLAY
--	34.0 - 36.0	1.5	4-5-50/3	GT/TOWR	N	N	0	1	CL	Red brown Silty CLAY @ 35 ft becoming Weathered SHALE

230-B10

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/30/2001	646,484.6	572,190.2	8.3

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
230-B10-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.071	6	GW	Dk brown m GRAVEL
--	0.5 - 1.5	1.0	DP	Fill	N	N	0.322	6	GC	Dk brown cmf GRAVEL and CLAY, little mf sand
230-B10-1.5-2	1.5 - 2.0	0.5	DP	Fill	N	N	0.273	8	GC	Dk brown cmf GRAVEL and CLAY, little mf sand

230-B11

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/30/2001	646,488.6	572,156.9	8.3

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
230-B11-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.067	9	GC	Med to dk brown mc GRAVEL, some Clay
--	0.5 - 1.5	1.0	DP	Fill	N	N	0.075	7	GC	Med to dk brown mc GRAVEL, some Clay
230-B11-1.5-2	1.5 - 2.0	0.5	DP	Fill	N	N	0.03	6	GC	Med to dk brown mc GRAVEL, some Clay

230-B2

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/30/2001	646,665.4	572,150.6	8.7

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
230-B2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.006	3	CL	Med brown CLAY, little c gravel
--	0.5 - 1.5	1.0	DP	Fill	N	N		0	1	CL	Med brown CLAY, little c gravel
230-B2-1.5-2	1.5 - 2.0	0.5	DP	Fill	N	N		0	2.7	CL	Med brown CLAY, little c gravel
230-B3	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/30/2001	646,647.0	572,199.9			8.5						
230-B3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.005	2	SW	Med brown m GRAVEL and c SAND
--	0.5 - 1.5	1.0	DP	Fill	N	N		0.007	4	CL	Med brown CLAY, little mf gravel, trace mf sand, moist
230-B3-1.5-2	1.5 - 2.0	0.5	DP	Fill	N	N		0.025	6	CL	Med brown CLAY, little mf gravel, trace mf sand, moist
230-B4	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/30/2001	646,616.2	572,179.1			8.6						
230-B4-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.004	2	GC	Med brown c GRAVEL, little clay
--	0.5 - 1.5	1.0	DP	Fill	N	N		0.006	2	CL	Reddish brown CLAY, little mf gravel
230-B4-1.5-2	1.5 - 2.0	0.5	DP	Fill	N	N		0.016	5	CL	Reddish brown CLAY, little mf gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
230-B5	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/13/2001	646,591.0	572,187.3			7.166						
230-B5-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.013	5.6	SC	Med brown cmf SAND, some Clay, trace organics
--	0.5 - 1.5	1.0	DP	Fill	N	N		0	31	SC	Med brown cmf SAND, some Clay, trace organics
230-B5-1.5-2	1.5 - 2.0	0.5	DP	Fill	N	N		0	125	SC	Med brown cmf SAND, some Clay, trace organics
230-B6	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/22/2001	646,600.1	572,140.3			8.7						
230-B6 0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.177	>250	CL	Red CLAY, some mc Gravel, trace organics
--	0.5 - 1.5	1.0	DP	Fill	N	N		0.043	160.4	GW	Med brown cmf GRAVEL, some cmf Sand @ 1 ft becoming Red CLAY, little mc gravel
230-B6 1.5-2	1.5 - 2.0	0.5	DP	Fill	N	N		0.006	143	CL	Red CLAY, little mc gravel
230-B7	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/22/2001	646,590.2	572,149.1			8.7						
230-B7 0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.023	153.8	SW	Med brown cmf SAND, some mf Gravel
--	0.5 - 1.5	1.0	DP	Fill	N	N		0.007	130.2	CL	Red CLAY, some mc Gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
230-B7 1.5-2	1.5 - 2.0	0.5	DP	Fill	N	N	0.012	143.2	CL	Red CLAY, some mc Gravel
230-B8	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
8/22/2001	646,533.0	572,166.9			8.5					
--	0.0 - 0.5	0.5	DP	Fill	N	N	0.062	71	GP	Gray c GRAVEL
--	0.5 - 1.5	1.0	DP	Fill	N	N	0.19	164	GP	Gray c GRAVEL
230-B8 1.5-2	1.5 - 2.0	0.5	DP	Fill	N	N	0.06	138	CL	Reddish brown CLAY, some mf Sand
230-B9	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
8/22/2001	646,531.7	572,135.7			8.5					
230-B9 0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.13	128	GW	Med brown cmf GRAVEL, some mc Sand, trace organics
--	0.5 - 1.5	1.0	DP	Fill	N	N	0.738	>250	CL	Red CLAY, little mf gravel @ 1 ft becoming Orange/brown mc SAND
230-B9 1.5-2	1.5 - 2.0	0.5	DP	Fill	N	N	0.253	>250	SP	Orange/brown mc SAND
231-B1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
11/19/2001	646,437.0	572,458.3			8.137					
--	0.0 - 2.0	0.3	4-4-5-5	Fill	N	N	0.04	10	SW	M brown fmc SAND, trace organics

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
231-B1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	>0.999	3.4	SW	Med brown cmf SAND and mc GRAVEL, trace organics
--	2.0 - 4.0	0.5	4-2-1-2	Fill	N	N	0.098	23	CL	M brown CLAY, little fmc sand, little m gravel, saturated
--	4.0 - 6.0	1.0	1-1-1-2	Fill	N	N	0.077	65	CL	M brown CLAY and mfc SAND, little m gravel, saturated
--	6.0 - 8.0	1.5	3-5-2-1	Fill	N	Y	0.054	112	CL/PT	CLAY, some fmc Sand, saturated @ 6.9 ft Wood pieces coated with black petrol substance @ 7.2 ft PEAT
--	8.5 - 10.5	0.5	4-4-11-13	TMD	N	N	0.049	16.9	PT	PEAT
--	10.5 - 12.5	1.0	1-1-1-1	TMD	N	N	0.058	7.6	OL/PT	Dk Gray organic rich CLAY, occasional Peat
--	12.5 - 14.5	0.3	1-1-1-2	TMD	N	N	0.004	2.3	ML	Dk Brown SILT, some f Sand, spongy texture
--	14.5 - 16.5	1.5	1-2-3-2	TMD	N	N	0.014	115	SM	M Brown f SAND, some Silt, traces of organics @ 15.5 ft becoming Lt Gray fm SAND
--	16.5 - 18.5	1.5	9-11-12-15	TMD/GF	N	N	0.041	66	PT	PEAT @ 16.6 ft fm SAND, s. Silt @ 17 ft f SAND and SILT, slightly mottled, strat? @ 17.7 ft SILT, s. mf Sand, tr. f gravel
--	18.5 - 20.5	1.0	5-6-7-7	GF	N	N	0.057	100	SM	Red brown f SAND, some Silt, little fm gravel
--	23.0 - 25.0	0.2	4-5-11-15	GT	N	N	0.017	14	GC	Red brown c GRAVEL, some Clay
--	25.0 - 27.0	1.5	13-10-11-10	GT	N	N	0.015	57	ML	Red brown SILT & CLAY, little fm gravel

231-B10

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/18/2001	646,601.8	572,490.3	8

231-B10-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.287	6.3	GW	Med brown cmf GRAVEL, little cmf sand

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	0.5 - 2.0	0.0	DP	Fill	--	--	--	--		NR
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	1.0	DP	TMD	N	N	--	--	PT	Peat
--	6.0 - 8.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

231-B11

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/19/2001	646,572.2	572,477.7	8.1

231-B11-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.007	0.6	CL	Red CLAY, little mf gravel, dense
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.006	8	CL	Red to Reddish brown CLAY, little to no mf gravel, moist
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	1.5	DP	Fill	N	N	0.01	11	GW	Med brown cmf GRAVEL, some Clay
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
231-B11-8-10	8.0 - 10.0	2.0	DP	Fill/TMD	N	N	0.012	1	OH/PT	Gray CLAY @ 8.5 ft becoming PEAT
--	10.0 - 12.0	2.0	DP	TMD	N	N	--	--	PT	Peat

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
231-B12	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/18/2001	646,600.1	572,476.5			8.1						
231-B12-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.025	2	GW	Med brown mf GRAVEL and cmf SAND, trace organics
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.007	0.3	CL	Reddish brown CLAY, little cmf sand, moist
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.006	2	CL	Dk brown CLAY, some Organics
--	6.0 - 8.0	2.0	DP	Fill	N	N		0.034	8.2	CL	Dk brown CLAY, some Organics
--	8.0 - 10.0	0.0	DP	Fill	--	--		--	--		NR
--	10.0 - 12.0	0.0	DP	Fill	--	--		--	--		NR
--	12.0 - 14.0	2.0	DP	Fill/TMD	N	N		0.015	7	OH/PT	Red CLAY @ 13 ft PEAT.
--	14.0 - 16.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR
231-B13	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/19/2001	646,618.1	572,456.5			8.1						
231-B13-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		>0.999	1.5	SW	Med brown cmf SAND, some mf Gravel, moist

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.111	5.6	SC	Brown cmf SAND @ 0.8 ft becoming cmf SAND and CLAY, some mc Gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	0.0	DP	Fill	--	--	--	--		NR
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
231-B13-8-10	8.0 - 10.0	2.0	DP	Fill/TMD	Y	N	>0.999	85	OH/PT	Red CLAY, little mf gravel @ 9 ft becoming PEAT.
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

231-B14

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/19/2001	646,611.9	572,476.9	8

231-B14-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.003	0.6	CL	Red CLAY, some mf Gravel
--	0.5 - 2.0	0.0	DP	Fill?	--	--	--	--		NR
--	2.0 - 4.0	0.0	DP	Fill?	--	--	--	--		NR

231-B2

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/22/2001	646,434.8	572,472.9	8.1

231-B2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	>0.999	158	CL	Med brown CLAY and cmf GRAVEL, little f sand

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
231-B2-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N		>0.999	>250	CL	Med brown CLAY and cmf GRAVEL, little f sand @ 1 ft becoming Red CLAY, some mf Gravel.
--	2.0 - 4.0	2.0	DP	Fill	N	N		0.074	>250	CL	Red CLAY, some mf Gravel
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.08	>250	CL	Red CLAY, some mf Gravel @ 4 ft becoming Gray CLAY some cmf Sand, trace mf gravel.
--	6.0 - 8.0	1.5	DP	Fill	N	N		0.075	>250	CL	Red CLAY and mc GRAVEL
--	8.0 - 10.0	2.0	DP	Fill/TMD	N	N		0.127	>250	OH/PT	Red SILT & CLAY, little cmf gravel @ 9 ft becoming PEAT.
--	10.0 - 12.0	2.0	DP	TMD	N	N		--	--	PT	Peat

231-B3

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/22/2001	646,431.0	572,443.0	8.1

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
231-B3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.597	97.2	ML	Med brown CLAY & SILT, some mf Gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.06	>250	ML	Med brown CLAY & SILT, some mf Gravel
--	2.0 - 4.0	1.5	DP	Fill	N	N		0.047	184.4	ML	Med brown CLAY & SILT, some mf Gravel
--	4.0 - 6.0	1.0	DP	Fill	N	N		0.977	>250	CL	Black CLAY, some Organics, saturated
--	6.0 - 8.0	0.0	DP	Fill	--	--		--	--		NR
--	8.0 - 10.0	1.0	DP	Fill	N	N		>0.999	>250	CL	Black CLAY, some Organics @ 8.5 ft becoming Red CLAY and mf GRAVEL, saturated.
--	10.0 - 12.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
231-B4	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/30/2001		646,442.9	572,431.4			8.3					
231-B4-0-0.5	0.0 - 0.5	0.5	DP	Fill	Y		N	>0.999	5.7	GP	cmf GRAVEL
--	0.5 - 2.0	0.5	DP	Fill	Y		N	>0.999	38	GP	cmf GRAVEL
--	2.0 - 4.0	0.0	DP	Fill	--		--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	Y		N	>0.999	53	SP	cmf SAND
231-B4-6-8	6.0 - 8.0	2.0	DP	Fill	Y		N	>0.999	0.7	SC	Dk brown f SAND and CLAY, saturated
--	8.0 - 10.0	0.0	DP	TMD?	--		--	--	--	PT	Peat in shoe @ 8 ft, NR
231-B5	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/19/2001		646,453.5	572,415.1			8.3					
--	0.0 - 0.5	0.5	DP	Fill	Y		N	>0.999	4.3	CL	Dk brown CLAY, some cmf Sand
231-B5-0.5-2	0.5 - 2.0	1.5	DP	Fill	N		N	0.192	1.3	CL	Med brown CLAY
--	2.0 - 4.0	0.0	DP	Fill	--		--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N		N	0.024	0.8	CL	Med brown to red CLAY, no to little cmf sand, little to trace f gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	6.0 - 8.0	1.5	DP	Fill	N	N	0.01	2.8	CL	Red to brown CLAY, little cmf sand, trace m gravel
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.04	5	CL	Med brown CLAY, some cmf Sand, little organics
--	10.0 - 12.0	2.0	DP	TMD	N	N	--	--	PT	Peat

231-B6

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/27/2001	646,469.1	572,419.7	8.3

231-B6-0-0.5	0.0 - 0.5	0.5	DP	Fill	Y	N	>0.999	0.7	SW	Med brown cmf SAND, some m Gravel, little organics
--	0.5 - 2.0	1.0	DP	Fill	Y	N	>0.999	20.6	SW	Med brown cmf SAND, little mf gravel, trace clay
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
231-B6-4-6	4.0 - 6.0	2.0	DP	Fill	Y	N	>0.999	11	SC	Med brown f SAND and CLAY, little mf gravel, saturated
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	0.5	DP	Fill	Y	Y	>0.999	7.5	GW	Med brown mf GRAVEL
--	10.0 - 12.0	0.0	DP	Fill?	--	--	--	--		NR

231-B7

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/13/2001	646,493.4	572,412.1	8.2

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
231-B7-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.075	1.5	GW	Black cmf GRAVEL, little cmf sand
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.07	2	GW	Black cmf GRAVEL, little cmf sand @ 1.5 ft becoming Reddish brown CLAY, some mc Gravel, little f sand
--	2.0 - 4.0	1.0	DP	Fill	N	N	0.047	2	CL	Reddish brown CLAY, some mc Gravel, little f sand
--	4.0 - 6.0	0.0	DP	Fill	--	--	--	--		NR
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.035	0.9	ML	Lt brown Silty CLAY, soft
--	10.0 - 12.0	2.0	DP	Fill	N	N	0.054	49	ML	Lt Brown to Black Silty CLAY, soft

231-B8

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/27/2001	646,456.6	572,445.5	8.2

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
231-B8-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	>0.999	21	GW	Dk brown cmf GRAVEL, little organics, little cmf sand
--	0.5 - 2.0	0.5	DP	Fill	Y	N	>0.999	3	SW	Med to dk brown cmf SAND, some mc Gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	1.0	DP	Fill	Y	N	>0.999	59	SW	Med to dk brown cmf SAND, some mc Gravel @ 4.3 ft becoming Red CLAY
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
231-B8-8-10	8.0 - 10.0	2.0	DP	Fill	N	Y	0.153	235	SW	Black cmf SAND, some cmf Gravel, little organics

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	10.0 - 12.0	1.0	DP	TMD	N	N	--	--	PT	Peat
231-B9	State Plane Coordinates (ft. NAD83)			G.S. Elev. (ft. NGVD29)						
9/27/2001	646,608.3	572,490.5		8						
231-B9-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.726	1.4	GW	Med brown mc GRAVEL, little cmf sand, trace organics
231-B9-0.5-2	0.5 - 2.0	1.0	DP	Fill/TMD	N	N	0.039	1.2	GC/PT	Brown CLAY and mf GRAVEL @ 1 ft becoming PEAT
--	2.0 - 4.0	0.0	DP	TMD	--	--	--	--	PT	PEAT, NR
--	4.0 - 6.0	2.0	DP	TMD	N	N	--	--	PT	PEAT @ 4 ft becoming Red CLAY, pieces of shale
--	6.0 - 8.0	0.0	DP	TMD?	--	--	--	--		NR
240-1	State Plane Coordinates (ft. NAD83)			G.S. Elev. (ft. NGVD29)						
9/26/2001	646,356.5	572,351.3		8.6						
240-1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.015	7	SC	Med brown cmf SAND, some mf Gravel, little clay
--	0.5 - 2.0	0.5	DP	Fill	N	N	0	3.8	SC	Med brown cmf SAND, some mf Gravel, little clay
--	2.0 - 4.0	0.0	DP	Fill?	--	--	--	--		NR
--	4.0 - 6.0	1.0	DP	Fill	N	N	0	1.3	ML	Reddish brown Silty CLAY, little f sand

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	6.0 - 8.0	1.0	DP	Fill	N	N	0	1.8	CL	Reddish brown Silty CLAY, little f sand
240-1-8-10	8.0 - 10.0	1.5	DP	Fill/TMD	N	N	0	16.6	CL	Reddish brown Silty CLAY, little f sand @ 9 ft becoming PEAT

5K-B1

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
10/1/2001	646,366.1	572,478.2	9

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
5K-B1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.008	0.8	CL	Red CLAY, little cmf sand
--	0.5 - 2.0	0.0	DP	Fill	--	--	--	--		NR
--	2.0 - 4.0	0.8	DP	Fill	N	N	0	1.6	CL	Red CLAY, little cmf sand @ 2.5 ft becoming Black CLAY, some Organics
--	4.0 - 6.0	5.0	DP	TMD	N	N	--	--	PT	Peat

5K-B2

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/31/2001	646,335.7	572,455.9	9.1

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
5K-B2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.195	20	SW	Dk brown cmf SAND, little f gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.026	220	GC	Med brown mf GRAVEL and CLAY @ 1 ft becoming Reddish brown CLAY, little mf gravel
--	2.0 - 4.0	1.0	DP	Fill	N	N	0.017	445	CL	Reddish brown CLAY, little f gravel
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.042	300	CL	Reddish brown CLAY, little f gravel, little f sand

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	6.0 - 8.0	1.5	DP	Fill	N	N		0.013	>250	CL	Orange CLAY, little f sand, dense
5K-B2-8-10	8.0 - 10.0	2.0	DP	Fill	N	N		0.023	>250	CL	Med brown CLAY, little mc gravel @ 9 ft becoming mc GRAVEL, some Clay
--	10.0 - 12.0	2.0	DP	Fill/TMD	N	N		0	160	GC/PT	Med brown mc GRAVEL, some Clay @ 10.7 ft becoming PEAT.

5K-B3

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/26/2001	646,365.3	572,426.1	9

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
5K-B3-0-0.5	0.0 - 0.5	0.5	DP	Fill	Y	N		>0.999	1.2	SP	Med brown mf SAND
--	0.5 - 2.0	1.5	DP	Fill	Y	N		>0.999	439	CL	Red CLAY, little mf gravel, little c sand
--	2.0 - 4.0	2.0	DP	Fill	Y	N		>0.999	263	CL	Red CLAY, little mf gravel, little c sand @ 3 ft becoming Gray CLAY
--	4.0 - 6.0	2.0	DP	Fill/TMD?	Y	N		>0.999	311	CL	Red CLAY @ 4.2 ft becoming Lt gray to dk brown CLAY, little cmf sand @ 5.4 becoming Black ORGANICS
--	6.0 - 8.0	0.0	DP	TMD?	--	--		--	--		Black organics?, NR

5K-B4

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
10/1/2001	646,391.0	572,449.9	8.9

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
5K-B4-0-0.5	0.0 - 0.5	0.5	DP	Fill	Y	N		0.027	1.8	MISC	Black ORGANIC MATERIAL @ 0.3 ft becoming Lt brown mf SAND @ 0.4 ft becoming Red CLAY, little mf gravel
--	0.5 - 2.0	0.0	DP	Fill	--	--		--	--		NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	2.0 - 4.0	1.3	DP	Fill	N	Y	0	17	CL	Red CLAY, little mf gravel @ 2.9 ft becoming Black ORGANICS and COBBLES
5K-B4-4-6	4.0 - 6.0	1.0	DP	Fill	N	Y	0	69	MISC	Black ORGANIC MATERIAL coated in petrol, little cmf sand
--	6.0 - 8.0	1.0	DP	TMD	N	N	--	--	PT	Peat

5K-B5

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/31/2001	646,382.9	572,411.4	8.8

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
5K-B5-0-0.5	0.0 - 0.5	0.5	DP	Fill	Y	N	0.022	120	MISC	Black organic material @ 0.2 ft becoming Reddish brown CLAY, little mf gravel, little glass, little organics
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.01	176	CL	Reddish brown CLAY, little mf gravel, little glass
--	2.0 - 4.0	1.0	DP	Fill	N	N	--	--	CL	Grayish brown CLAY, trace organics
5K-B5-4-6	4.0 - 6.0	2.0	DP	Fill	N	N	0.004	8.7	GW	Brown mf GRAVEL, some cmf Sand, saturated @ 5 ft becoming CLAY, little mf gravel, dense
--	6.0 - 8.0	1.7	DP	Fill	N	N	0.015	210	GW	Black mf GRAVEL, little clay, saturated

AB-1

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/4/2001	646,701.1	572,550.1	7.5

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
AB-1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.119	2	SC	Med brown mf SAND, some mc Gravel, little clay
--	0.5 - 2.0	1.0	DP	Fill	N	N	0.811	2.7	SC	Med brown mf SAND, some mc Gravel, little clay

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	Y	N	>0.999	2.7		SC	Med brown mf SAND, little clay
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--	--		NR
--	8.0 - 10.0	2.0	DP	Fill	Y	N	>0.999	4.2		CL	Dk brown Silty CLAY, little cmf sand
--	10.0 - 12.0	2.0	DP	TMD	N	N	>0.999	14.3		CL	Black Silty CLAY, little organics @ 11.8 ft becoming Peat.

AB-2

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/4/2001	646,643.2	572,556.8	8.2

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
AB-2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	>0.999	2.3		SC	Med brown cmf SAND, little clay, trace m gravel, trace organics
AB-2-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N	>0.999	4		SC	Med brown cmf SAND, little clay, trace m gravel, trace organics @ 1 ft becoming Gray CLAY, trace f gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.922	3.6		OL	Gray CLAY, trace f gravel, moist
--	6.0 - 8.0	2.0	DP	Fill	N	N	0.015	11		OL	Gray to Black CLAY, some mf Gravel
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.013	29		ML	Med brown Silty CLAY @ 8.5 ft becoming Med brown and gray CLAY & SILT, saturated
--	10.0 - 12.0	1.5	DP	Fill/TMD	N	N	0.011	12		ML/PT	Med brown and gray CLAY & SILT, saturated, @ 11 ft becoming PEAT.

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
ADN-1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/5/2001	647,036.3	572,061.5			7.4						
ADN-1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.012	11	CL	Med brown CLAY and cmf SAND, little organics
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.006	9	CL	Med brown CLAY and cmf SAND, little organics @ 1.2 ft becoming Red CLAY, little mf gravel, little cmf sand
--	2.0 - 4.0	2.0	DP	Fill	N	N		0.016	58	CL	Red CLAY, little mf gravel, little cmf sand
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.011	39	CL	Red CLAY, little mf gravel, little cmf sand
--	6.0 - 8.0	1.0	DP	Fill	N	N		0.017	>250	CL	Red CLAY, little mf gravel, little cmf sand @ 6.5 ft becoming Black CLAY and ORGANIC MATERIAL
ADN-1-8-10	8.0 - 10.0	2.0	DP	Fill	N	N		0.048	>250	CL	Red CLAY, little f gravel @ 9 ft becoming Black CLAY and ORGANIC MATERIAL @ 9.2 ft becoming Red CLAY, moist
--	10.0 - 12.0	0.0	DP	Fill	--	--		--	--		NR
--	12.0 - 14.0	2.0	DP	Fill	N	N		0.04	295	CL	Red and black CLAY, moist
--	14.0 - 16.0	2.0	DP	TMD	N	N		--	--	PT	Peat
ADN-2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/5/2001	646,983.0	572,063.3			7.6						
ADN-2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	10	CL	Brown CLAY and f SAND, little mf gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	0.5 - 2.0	1.5	DP	Fill	N	N	0	8	CL	Reddish brown CLAY, some cmf Sand, little f gravel
--	2.0 - 4.0	1.5	DP	Fill	N	N	0.003	6	CL	Red-brwn CLAY, some cmf Sand, little f gravel @ 2.5 ft Blk f GRAVEL, s. c Sand @ 3 ft Red CLAY, l. m grav
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.003	5	CL	Red CLAY, trace f gravel
--	6.0 - 8.0	2.0	DP	Fill	N	N	0	17	CL	Red to lt. brown to red CLAY, trace f gravel
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.008	99	CL	Red CLAY, trace f gravel
ADN-2-10-11	10.0 - 11.0	1.0	DP	Fill	N	N	0.025	4	CL	Red CLAY
--	11.0 - 12.0	1.0	DP	TMD	N	N	--	--	OL/PT	Black ORGANICS and CLAY - Peat
--	12.0 - 14.0	2.0	DP	TMD	N	N	0.03	>250	OL	Black CLAY and ORGANIC MATERIAL, trace f gravel
--	14.0 - 16.0	2.0	DP	GT	N	N	0.096	>250	CL	Red CLAY, little mf gravel

ADS-1

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/17/2001	646,923.2	571,494.5	8.1

ADS-1-0-.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.02	0	SW	mf SAND, little cmf gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.02	0	SW	mf SAND, little cmf gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.016	0	GW	Dk brown cmf GRAVEL

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	6.0 - 8.0	1.0	DP	Fill	N	N	0.02	120	GW	Dk brown cmf GRAVEL
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.019	0	GW	Dk brown cmf GRAVEL, little f sand, saturated
--	10.0 - 11.0	1.0	DP	Fill	N	N	0.015	0	GW	Dk brown cmf GRAVEL, little f sand, saturated
--	11.0 - 13.0	2.0	DP	Fill/TMD	N	N	0.018	0	GW/PT	Dk brown cmf GRAVEL, little f sand, saturated. PEAT @ 12.8 ft.

ADS-10

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/18/2001	646,657.8	571,899.2	8.2

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
ADS-10-0-0.5	0.0 - 2.0	2.0	DP	Fill	N	N	0	0	GW	Dk brown to black cmf GRAVEL, little c sand
--	2.0 - 4.0	0.5	DP	Fill	N	N	0	0	GW	Dk brown to black cmf GRAVEL, little c sand
ADS-10-4-6	4.0 - 6.0	2.0	DP	Fill	N	N	0	0	GW	Dk brown to black cmf GRAVEL, little c sand
--	6.0 - 8.0	0.3	DP	TMD	N	N	--	--	PT	Peat

ADS-11

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/18/2001	646,703.6	571,837.5	8.1

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
ADS-11-0-0.5	0.0 - 2.0	2.0	DP	Fill	N	N	0.004	0	GW	Dk brown mf GRAVEL, little c sand
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	4.0 - 6.0	2.0	DP	Fill/TMD	N	N		0	0	GP/PT	Dk brown cmf GRAVEL @ 5.5 ft becoming PEAT
--	6.0 - 8.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR

ADS-12

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/18/2001	646,767.7	571,814.2	8.1

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
ADS-12-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.011	0	ML	Red CLAY & SILT, little mc gravel, trace organics
ADS-12-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N		0.009	0	GM	Black cmf GRAVEL, little silt @ 1.5 ft becoming Red SILT & CLAY.
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N		0	0	GW	Black cmf GRAVEL
--	6.0 - 8.0	1.0	DP	TMD	N	N		0	0	PT	Peat

ADS-2

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/18/2001	646,914.6	571,834.1	8.1

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
ADS-2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	0	GW	Med brown mc GRAVEL, some cmf Sand
--	0.5 - 2.0	1.5	DP	Fill	N	N		0	0	GW	Med brown mc GRAVEL, some cmf Sand @ 1 ft becoming Black c SAND.
--	2.0 - 4.0	1.0	DP	Fill	N	N		0	0	ML	Red SILT & CLAY, little mc sand, trace cmf gravel.

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
ADS-2-4-6	4.0 - 6.0	2.0	DP	Fill		N	N	0	0	ML	Red SILT & CLAY, little sand, trace cmf gravel.
--	6.0 - 8.0	2.0	DP	Fill/TMD		N	N	0	0	ML/PT	Red SILT & CLAY @ 7.5 ft becoming PEAT

ADS-3

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/18/2001	646,874.5	571,980.2	7.9

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
ADS-3-0-0.5	0.0 - 0.5	0.5	DP	Fill		N	N	0	0.5	SW	Med brown mc SAND, some cmf Gravel
--	0.5 - 2.0	1.5	DP	Fill		N	N	0	0.3	SM	Med brown mc SAND, some cmf Gravel @ 1 ft becoming Red brown SILT & CLAY, little mf sand, little cmf gravel.
--	2.0 - 4.0	2.0	DP	Fill		N	N	0	0.2	ML	Red brown SILT & CLAY, little mf sand, little cmf gravel
--	4.0 - 6.0	2.0	DP	Fill		N	N	0	4	SM	Red brown f SAND and SILT, some Clay, trace mc gravel
--	6.0 - 8.0	2.0	DP	Fill		N	N	0	1	GM	Black cmf GRAVEL, little silt
--	8.0 - 10.0	2.0	DP	Fill		N	N	0	4	GM	Black cmf GRAVEL, little silt
--	10.0 - 12.0	2.0	DP	TMD		N	N	0.005	4	PT	Peat

ADS-4

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/18/2001	646,850.1	572,029.2	8.5

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
ADS-4-0-0.5	0.0 - 2.0	2.0	DP	Fill		N	N	0.008	0	GM	Med brown cmf GRAVEL, some cmf Sand, little silt @ 1 ft becoming Med brown to gray SILT & CLAY.

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	2.0 - 4.0	0.8	DP	Fill	N	N		0.005	0	ML	Med brown to gray SILT & CLAY @ 2.3 ft becoming Black cmf GRAVEL.
--	4.0 - 6.0	2.0	DP	Fill	N	N		0	0	GW	Black cmf GRAVEL, saturated
--	6.0 - 8.0	2.0	DP	Fill	N	N		0	0	GW	Black cmf GRAVEL, saturated
--	8.0 - 10.0	2.0	DP	Fill	N	N		0	0	GW	Black cmf GRAVEL, saturated
--	10.0 - 12.0	2.0	DP	Fill	N	N		0.003	0	GW	Black cmf GRAVEL, saturated
ADS-4-12-14	12.0 - 14.0	2.0	DP	Fill	N	N		0.027	0	GP	Black cmf GRAVEL, saturated
--	14.0 - 16.0	2.0	DP	Fill/TMD	N	N		0.011	0	GP/PT	Black cmf GRAVEL, saturated. Peat on tip @ 16 ft.

ADS-5

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/18/2001	646,709.4	572,072.4	9.2

ADS-5-0-0.5	0.0 - 2.5	2.5	DP	Fill	N	N		0.006	1.9	GW	Med brown cmf GRAVEL, some cmf Sand @ 1.5 ft becoming Med brown to red f SAND and SILT, little clay.
--	2.5 - 4.0	0.0	DP	Fill	--	--		--	--		NR
ADS-5-4-6	4.0 - 6.0	2.0	DP	Fill	N	N		0.017	15	SW	Lt brown cmf SAND
--	6.0 - 8.0	1.0	DP	Fill	N	N		0	2.9	SP	Orange f SAND
--	8.0 - 10.0	2.0	DP	Fill	N	N		0.06	--	SP	Med brown mf SAND
--	10.0 - 12.0	2.0	DP	Fill/TMD	N	N		0.054	--	SW/PT	Orange f SAND. PEAT in shoe @ 12 ft.

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
ADS-6	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
7/18/2001	646,692.6	572,032.2			9.2						
ADS-6-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.042	1.3	GW	Med brown cmf GRAVEL
ADS-6-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N		0.204	1.7	ML	Med brown SILT & CLAY, little mf gravel, trace organics.
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	1.0	DP	Fill	N	N		0.014	0.6	SM	Dk Gray f SAND and SILT, some c Gravel, saturated
--	6.0 - 8.0	0.0	DP	Fill	--	--		--	--		NR
--	8.0 - 10.0	2.0	DP	Fill	N	N		0.006	1.7	SM	Reddish brown f SAND and SILT, trace c gravel
--	10.0 - 12.0	0.0	DP	Fill?	--	--		--	--		NR
ADS-7	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
7/17/2001	646,583.6	572,040.1			8.8						
ADS-7-0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.013	767	GW	Med brown cmf GRAVEL, little cmf sand
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.018	767	GW	Med brown mf GRAVEL, little mf sand, trace silt @ 1.8 ft becoming Med brown f SAND, little silt, moist.
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.031	2142	SM	Reddish brown f SAND and SILT, little clay, moist

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.018	0	SM	Med brown cmf SAND, little silt @ 5 ft becoming mc SAND, little f gravel, moist to saturated
--	6.0 - 8.0	2.0	DP	Fill	N	N	0.016	180	SM	Reddish brown f SAND and SILT, trace mc gravel, saturated
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.02	0	SM	Med brown cmf SAND, little f gravel, little silt @ 9 ft becoming f SAND and SILT, little clay.
--	10.0 - 12.0	1.0	DP	TMD	N	N	0.285	2142	PT	Peat

ADS-8

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/18/2001	646,613.7	571,986.2	8.7

ADS-8-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0	0	GW	Med brown c GRAVEL, some mf Sand
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.003	0	GW	Med brown c GRAVEL, some mf Sand @ 1.0 ft becoming Black cmf GRAVEL, some Clay.
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
ADS-8-4-6	4.0 - 6.0	2.0	DP	Fill	N	N	0.007	0	GW	Med brown to black mc GRAVEL, some cmf SAND, moist
--	6.0 - 8.0	1.0	DP	Fill	N	N	0	0	GW	Black mc GRAVEL, little c sand, moist
--	8.0 - 10.0	2.0	DP	TMD	N	N	--	--	PT	Peat
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
ADS-9											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
7/18/2001		646,636.1	571,950.1			8.5					
ADS-9-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	0	GW	Dk brown to black cmf GRAVEL
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.004	0	GW	Dk brown to black cmf GRAVEL
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N		0	0	GW	Dk brown cmf GRAVEL
--	6.0 - 8.0	0.3	DP	TMD	N	N		--	--	PT	Peat
BSL-1											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/20/2001		646,565.7	572,759.0			4					
BSL-1-0-1	0.0 - 1.0	1.0	DP	Fill	N	N		0	0.7	SP	Med brown cmf SAND
--	1.0 - 2.0	0.5	DP	Fill	N	N		0	0.7	GW	Gray CLAY @ 0.7 ft becoming Dk brown mf GRAVEL, some cmf Sand
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
BSL-1-4-6	4.0 - 6.0	2.0	DP	Fill/TMD	N	N		0.005	0.5	GP/PT	Dk brown mf GRAVEL, some cmf Sand @ 4.5 ft becoming Gray CLAY, saturated @ 5.5 ft becoming PEAT
--	6.0 - 7.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
BSL-10	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/21/2001	646,259.5	572,902.5			2						
BSL-10-0-1	0.0 - 1.0	1.0	DP	Fill	N	N		0.03	2	SC	Brown mf SAND, some Clay, little organics @ 0.5 ft becoming mf GRAVEL, some cmf Sand
--	1.0 - 2.0	0.0	DP	Fill?	--	--		--	--		NR
--	2.0 - 4.0	0.0	DP	Fill?	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	TMD	N	N		--	--	PT	Peat
--	6.0 - 8.0	2.0	DP	TMD	N	N		--	--	PT	Peat
BSL-11	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/26/2001	646,256.0	572,881.2			6.4						
BSL-11-0-1	0.0 - 1.0	0.5	DP	Fill	N	N		0.016	10	SC	Lt brown f SAND @ 0.5 ft becoming Gray CLAY and mf GRAVEL, little organics
--	1.0 - 2.0	0.0	DP	Fill	--	--		--	--		NR
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill/TMD	N	N		0.008	21.5	GP/PT	Black mf GRAVEL @ 5 ft becoming PEAT.
--	6.0 - 8.0	1.0	DP	TMD	N	N		--	--	PT	Peat

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
BSL-12	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/26/2001	646,230.2	572,888.8			6.5						
BSL-12-0-1	0.0 - 1.0	1.0	DP	Fill	N	N		0.065	0.8	SC	Med brown to gray mf SAND, some Clay, little cmf gravel, little organics
--	1.0 - 2.0	0.0	DP	Fill?	--	--		--	--		NR. Refusal @ 2 ft.
BSL-2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/21/2001	646,514.7	572,787.1			3.5						
BSL-2-0-1	0.0 - 1.0	1.0	DP	Fill	N	N		0.003	7.6	SW	Med brown cmf SAND, little organics
--	1.0 - 2.0	0.5	DP	Fill	N	N		0.016	0	GW	Dk brown cmf GRAVEL, some cmf Sand, moist
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill/TMD	N	N		0	0	GP/PT	Dk brown cmf GRAVEL, some cmf Sand, moist @ 5 ft becoming PEAT.
--	6.0 - 8.0	2.0	DP	TMD	N	N		--	--	PT	Peat
BSL-3	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/20/2001	646,513.6	572,772.5			6						
BSL-3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.004	0.9	SP	Med brown cmf SAND

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	0.5 - 2.0	1.5	DP	Fill	N	N	0	0.7	SW	Brown cmf SAND @ 1 ft becoming CLAY, some mf Gravel, moist
--	2.0 - 4.0	0.0	DP	Fill?	--	--	--	--		NR
--	4.0 - 6.0	0.0	DP	Fill?	--	--	--	--		NR
--	6.0 - 7.0	0.0	DP	Fill?	--	--	--	--		NR
--	7.0 - 9.0	0.0	DP	Fill?	--	--	--	--		NR
--	9.0 - 10.0	0.0	DP	Fill?	--	--	--	--		NR. Refusal @ 10 ft.

BSL-4

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/21/2001	646,459.6	572,812.2	3.5

BSL-4-0-1	0.0 - 0.5	0.3	DP	Fill	N	N	0	0	SW	Med brown cmf SAND, some Organics
--	0.5 - 2.0	0.0	DP	Fill	--	--	--	--		NR
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
BSL-4-4-6	4.0 - 6.0	0.5	DP	Fill/TMD?	N	N	0	0	SW/PT	Med brown cmf SAND, some f Gravel @ 4.5 ft probably becoming PEAT, very soft.
--	6.0 - 8.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR
--	8.0 - 10.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
BSL-5	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/21/2001	646,455.3	572,797.4			6						
BSL-5-0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.005	0.9	SW	Med brown cmf SAND, some mf Gravel, moist
--	0.5 - 2.0	1.5	DP	Fill	N	N		0	0	SW	Med brown cmf SAND, some mf Gravel @ 1.5 ft becoming Orange to black CLAY, trace organics, moist
--	2.0 - 4.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR
--	4.0 - 6.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR
--	6.0 - 8.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR
BSL-6	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/26/2001	646,392.2	572,846.6			2						
BSL-6-0-1	0.0 - 1.0	1.0	DP	Fill	N	N		0.046	3.5	SW	Med brown cmf SAND, little organics, saturated
BSL-6-1-2	1.0 - 2.0	1.0	DP	Fill/TMD	N	N		0.021	10.4	GC/PT	Med brown CLAY and mf GRAVEL, little cmf sand @ 1.7 ft becoming PEAT.
--	2.0 - 4.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR
BSL-7	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/21/2001	646,383.7	572,834.6			4.5						

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
BSL-7-0-.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.015	0	SW	Med brown cmf SAND, little organics
--	0.5 - 2.0	0.5	DP	Fill	N	N	0.028	1.9	GW	Med brown mf GRAVEL, little cmf sand, moist
--	2.0 - 4.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR
--	4.0 - 6.0	2.0	DP	TMD	N	N	0.008	0	PT	Peat
--	6.0 - 8.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

BSL-8

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/26/2001	646,332.4	572,874.1	1.5

BSL-8-0-1	0.0 - 1.0	1.0	DP	Fill	N	N	0.013	1.5	SW	Med brown mf SAND, some Organics
--	1.0 - 2.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR
--	2.0 - 4.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

BSL-9

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/21/2001	646,327.9	572,851.3	6

BSL-9-0-.5	0.0 - 0.5	0.5	DP	Fill	N	N	0	0	SW	Lt brown cmf SAND, some Organics
BSL-9-.5-2	0.5 - 2.0	1.5	DP	Fill	N	N	0.017	0	SW	Brown cmf SAND, some Organics @ 1 ft becoming mf GRAVEL, some cmf Sand, saturated

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.006	0	CL	Lt gray CLAY @ 5.5 ft becoming Med brown mf Gravel, some cmf Sand, saturated
--	6.0 - 8.0	0.0	DP	TMD?	--	--	--	--	PT	Peat expected in this interval based on BSL-7, NR.
--	8.0 - 10.0	0.0	DP	TMD?	--	--	--	--	PT	Peat expected in this interval based on BSL-7, NR.

BT-B1

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/18/2001	646,639.2	572,496.5	8

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
BT-B1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.026	1.1	CL	Reddish brown CLAY, some mf Gravel, little cmf sand, trace organics
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.011	0.5	CL	Reddish brown CLAY, some mf Gravel, little cmf sand, trace organics
--	2.0 - 4.0	0.5	DP	Fill	N	N	0.007	0.9	CL	Reddish brown CLAY, some mf Gravel, little cmf sand, trace organics
--	4.0 - 6.0	2.0	DP	Fill	N	N	0	0.9	CL	Reddish brown CLAY, some mf Gravel, little cmf sand, trace organics
--	6.0 - 8.0	1.0	DP	Fill	N	Y	0.003	1	CL	Red-brwn CLAY, some mf Gravel, little cmf sand, tr. organics @ 6.5 ft become blk mf GRAVEL, s. cmf Sand, sat.
--	8.0 - 10.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
BT-B2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/18/2001	646,643.4	572,480.4			8.1						
BT-B2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.071	1.4	SW	Black c SAND and f GRAVEL
BT-B2-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N		0.043	1.1	CL	Red CLAY, little mf gravel, trace organics
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.017	13	CL	Red CLAY, little mf gravel, trace organics
--	6.0 - 8.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR
--	8.0 - 10.0	2.0	DP	TMD	N	N		--	--	PT	Peat
--	10.0 - 12.0	2.0	DP	TMD	N	N		--	--	PT	Peat
BT-B3	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/18/2001	646,643.2	572,464.2			8.1						
BT-B3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.098	1.6	GW	Black cmf GRAVEL
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.057	1.8	GW	Black cmf GRAVEL @ 1 ft becoming Reddish brown CLAY, trace f gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	4.0 - 6.0	0.0	DP	Fill	--	--	--	--		NR
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.009	2	CL	Reddish brown CLAY, trace f gravel
--	10.0 - 12.0	2.0	DP	TMD	N	N	0.014	1.1	CL/PT	Reddish brown CLAY, trace f gravel @ 11 ft becoming Peat.

BT-B4

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/30/2001	646,667.7	572,431.5	8.2

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
BT-B4-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.043	2.5	GW	ASPHALT and mf GRAVEL, little cmf sand
BT-B4-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N	>0.999	5.9	GW	ASPHALT and mf GRAVEL, little cmf sand @ 1 ft becoming Dk brown cmf GRAVEL, some mc Sand
--	2.0 - 4.0	2.0	DP	Fill	N	N	0.009	6	CL	Red CLAY, little c gravel @ 3 ft becoming Dk brown CLAY and mc GRAVEL, little f sand
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.033	6.6	CL	Med brown to red CLAY, some to no mf Gravel
--	6.0 - 8.0	2.0	DP	Fill/TMD	N	N	0.011	15.4	OL/PT	Dk brown to black Clay @ 7.3 ft becoming PEAT.

BT-B5

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
10/2/2001	646,700.8	572,430.7	7.8

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
BT-B5-0-.5	0.0 - 0.5	0.5	8	Fill	N	N	0.276	1.3	GC	Dk brown mf GRAVEL and CLAY, little cmf sand, trace organics

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	0.5 - 2.0	0.5	9-5-3	Fill	N		N	0.851	2.2	GC	Dk brown mf GRAVEL and CLAY, little cmf sand, trace organics
--	2.0 - 4.0	1.5	5-7-7-12	Fill	N		N	0.035	1.9	CL	Red CLAY, little f gravel, very dense
--	4.0 - 6.0	2.0	1-2-5-3	Fill/TMD	N		N	0.044	1	CL/PT	Red CLAY, little f gravel, very dense @ 5.5 ft becoming PEAT
--	7.0 - 9.0	1.0	WOH	TMD	N		N	>0.999	2.5	PT	PEAT
--	9.0 - 11.0	2.0	WOH	TMD	N		N	>0.999	2.3	PT	PEAT
--	11.0 - 13.0	0.5	WOH	TMD	N		N	>0.999	1.1	CL	Gray CLAY, some Peat
--	13.0 - 15.0	1.5	WOH	TMD	N		N	>0.999	0.8	OL/PT	Dk Gray CLAY, some Peat, little mc Gravel
--	15.0 - 17.0	2.0	2-6-3-3	TMD/GF	N		N	>0.999	1.7	CL	Dk Gray CLAY, little organics @ 16.2 ft becoming Med Gray fm SAND, little silt
--	17.0 - 19.0	1.5	4-4-5-6	GF	N		N	0.175	3	SM	Med Gray and Brown fm SAND, little silt, mottled
--	19.0 - 21.0	1.0	3-8-8-10	GT	N		N	0	3	SW	Reddish brown f SAND, little f gravel, trace silt
--	21.0 - 23.0	1.0	6-10-10-10	GT	N		N	0	7	ML	Red brown SILT & CLAY, little (+) fm gravel, little f sand
--	23.0 - 25.0	1.0	5-9-10-10	GT	N		N	0	5	ML	Red brown SILT and f SAND, little fm gravel

BT-B6

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/18/2001	646,713.8	572,450.7	8.1

BT-B6-0-0.5	0.0 - 0.5	0.5	DP	Fill	N		N	0.835	1	SW	Dk brown cmf SAND, some mf Gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
BT-B6-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N	>0.999	1	SW		Dk brown cmf SAND, some mf Gravel @ 1 ft becoming Reddish brown CLAY, some cmf Gravel, some cmf Sand
--	2.0 - 4.0	1.0	DP	Fill	N	N	0.016	1.1	CL		Reddish brown CLAY, some cmf Gravel, some cmf Sand
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.013	1.1	CL		Reddish brown CLAY, some cmf Gravel, some cmf Sand @ 5.5 ft Black cmf GRAVEL, some cmf SAND, sat.
--	6.0 - 8.0	0.5	DP	Fill	N	N	0.022	5.3	GW		Black cmf GRAVEL, some cmf Sand, saturated
--	8.0 - 10.0	1.0	DP	TMD	N	N	--	--	PT		Peat
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT		Peat?, NR

CF-1

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/31/2001	646,706.7	572,613.0	8.1

CF-1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.025	65	SW		Med brown cmf SAND, little mc gravel, little clay
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.004	48	SW		Med brown cmf SAND, little mc gravel, little clay
CF-1-2-4	2.0 - 4.0	2.0	DP	Fill	N	N	0.009	148	CL		Red CLAY, little c gravel, dense
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.003	50	GW		Brown to black mf GRAVEL, some c Sand, moist @ 5.8 ft becoming Dk Gray CLAY, some f Gravel
--	6.0 - 8.0	1.0	DP	Fill	N	N	0	58	CL		Dk Gray CLAY, some f Gravel @ 6.2 ft becoming Black mf GRAVEL
--	8.0 - 10.0	2.0	DP	TMD	N	N	--	--	PT		Peat
--	10.0 - 12.0	1.0	DP	TMD	N	N	--	--	PT		Peat

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
CF-2											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/28/2001		646,703.9	572,645.3			4.5					
CF-2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.033	1	CL	Med brown CLAY, little mf gravel, trace organics
--	0.5 - 2.0	2.0	DP	Fill	N	N		0	0.5	CL	Med brown CLAY, little mf gravel, trace organics @ 1.3 ft becoming Dk brown mf GRAVEL, some cmf Sand, moist
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	TMD	N	N		--	--	PT	Peat
--	6.0 - 8.0	1.0	DP	TMD	N	N		--	--	PT	Peat
CF-3											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/28/2001		646,685.2	572,668.2			4					
CF-3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	1	CL	Med brown CLAY, trace c gravel, trace organics
CF-3-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N		0	2	CL	Brown CLAY, trace c gravel, trace organics @ 1 ft becoming mf GRAVEL, little mf sand, moist
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	1.5	DP	TMD	N	N		--	--	PT	Peat
--	6.0 - 8.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
CF-4											
8/28/2001	State Plane Coordinates (ft. NAD83) 646,662.3		572,689.8		G.S. Elev. (ft. NGVD29) 3.5						
CF-4-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.056	3.4	CL	Med brown CLAY, little mf gravel, little organics
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.036	1.7	CL	Med brown CLAY, little mf gravel, little organics
--	2.0 - 4.0	0.2	DP	Fill	N	N		--	--	GW	Med brown mf GRAVEL, little f sand, trace organics
--	4.0 - 6.0	1.0	DP	Fill/TMD	N	N		0.036	2.6	GP/PT	M. brown mf GRAVEL, little f sand, trace organics @ 4.2 ft ft. Gray CLAY and SILT, mst to sat @ 4.9 ft PEAT.
--	6.0 - 8.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR
CF-5											
8/28/2001	State Plane Coordinates (ft. NAD83) 646,617.1		572,693.1		G.S. Elev. (ft. NGVD29) 10.4						
CF-5-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	1	SW	Med brown cmf SAND, little c gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N		0	1.3	SC	Lt gray f SAND and CLAY @ 0.7 ft becoming Orange f SAND
--	2.0 - 4.0	1.5	DP	Fill	N	N		0	2.6	SP	Orange f SAND
CF-5-4-6	4.0 - 6.0	2.0	DP	Fill	N	N		0.006	3	SW	Brick @ 4.4 ft becoming Orange f SAND @ 5.9 ft becoming Black mf GRAVEL
--	6.0 - 8.0	1.0	DP	Fill	N	N		0.003	1.7	GW	Black mf GRAVEL @ 6.2 ft Lt Gray CLAY @ 6.6 ft Blk cmf GRAVEL @ 6.6 ft Lt. Gray CLAY, hard.

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.005	1	CL	Orange CLAY, little f gravel
--	10.0 - 12.0	1.0	DP	TMD	N	N	--	--	PT	Peat

CF-6

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/28/2001	646,622.0	572,666.7	10.2

CF-6-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0	5	SC	Med brown f SAND, trace clay, trace organics
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.211	9.2	SW	Med brown to orange f SAND, no to little mf gravel, trace clay, trace organics
--	2.0 - 4.0	1.0	DP	Fill	N	N	0.03	2.6	SP	Orange f SAND
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.137	4	SP	Orange f SAND
--	6.0 - 8.0	2.0	DP	Fill	N	N	0	8	GW	Dk brown mf GRAVEL @ 7 ft becoming Orange CLAY
--	8.0 - 10.0	0.0	DP	Fill	--	--	--	--		NR
--	10.0 - 12.0	0.0	DP	Fill	--	--	--	--		NR
--	12.0 - 14.0	2.0	DP	Fill	N	N	0	3	GW	Black cmf GRAVEL, little silt, saturated
--	14.0 - 16.0	2.0	DP	TMD	N	N	--	--	PT	Peat

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
CF-7											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/28/2001		646,623.4	572,633.0			10.3					
CF-7-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.016	15	SC	Med brown f SAND, some Clay, trace c gravel, trace organics
--	0.5 - 2.0	1.5	DP	Fill	N	N		0	7.1	SC	Med brown f SAND, some Clay, trace c gravel, trace organics @ 1 ft becoming Orange f SAND
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.526	5	SW	Dk brown mf SAND, some f Gravel, trace organics
CF-7-4-6	4.0 - 6.0	1.0	DP	Fill	N	N		>0.999	16	SW	Med brown f SAND, some f Gravel, trace silt, trace organics
--	6.0 - 8.0	0.0	DP	Fill	--	--		--	--		NR
--	8.0 - 10.0	1.0	DP	Fill/TMD	N	N		0.031	4	GC/PT	Dk brown mf GRAVEL @ 8.6 ft becoming Lt. Gray CLAY, saturated @ 8.8 ft becoming PEAT.
--	10.0 - 12.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR
CF-8											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/28/2001		646,640.1	572,605.0			8.8					
CF-8-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.003	0.9	SC	Med brown mf SAND, little c clay, trace mf gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.006	3	GW	Med brown to orange mf SAND, trace clay, trace gravel
--	2.0 - 4.0	1.2	DP	Fill	N	N		0.005	3.8	CL	Red CLAY, little mf gravel @ 3 ft becoming Black mf GRAVEL

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.006	3	GC	Gray mf GRAVEL, little clay, saturated
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	2.0	DP	TMD	N	N	0.087	13	GW/PT	cmf GRAVEL, saturated @ 9 ft becoming Peat.
--	10.0 - 12.0	2.0	DP	TMD	N	N	--	--	PT	Peat

CF-9

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/31/2001	646,679.8	572,609.8	8.5

CF-9-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.135	14	SC	Med brown mf SAND, some Clay, some mc Gravel
CF-9-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N	0.013	9	SC	Med brown mf SAND, some Clay, some mc Gravel
--	2.0 - 4.0	2.0	DP	Fill	N	N	0.003	7.5	CL	Red CLAY, little mc gravel, dense
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.005	7	CL	Red CLAY, little mc gravel, dense @ 5 ft Gray SILT & CLAY @ 5.2 ft Dk brown mf GRAVEL, s. mc Sand, sat.
--	6.0 - 8.0	1.0	DP	Fill	N	N	0.005	8.8	GM	Dk brown mf GRAVEL, some mc Sand, saturated @ 6.2 ft becoming Gray SILT & CLAY
--	8.0 - 10.0	2.0	DP	TMD	N	N	--	--	PT	Peat
--	10.0 - 12.0	2.0	DP	TMD	N	N	--	--	PT	Peat

DC-B12

State Plane Coordinates (ft. NAD83): 646,152.1 572,422.1

G.S. Elev. (ft. NGVD29): 7.211

10/3/2001

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
DC-B12-0-0.5	0.0 - 0.5	0.5	32	Fill	N	N		0.014	17	GW	Med brown cmf GRAVEL, some Clay
--	0.5 - 2.0	0.0	28	Fill	--	--		--	--		NR
DC-B12-2-4	2.0 - 4.0	0.2	6-34-30	Fill	N	N		0.028	66	GW	Med brown cmf GRAVEL, little cmf sand, moist
--	4.0 - 6.0	0.0	2-5-4-37	Fill	--	--		--	--		NR
--	6.0 - 8.0	1.0	10-7-2-1	Fill/TMD	N	N		--	--	GW/PT	Med brown c GRAVEL @ ~ 7 ft becoming PEAT.
--	9.2 - 11.0	0.8	9-8-2-1	TMD	N	N		0.014	26	GW/PT	Black fmc GRAVEL, coated in a petroleum product @ 9.7 ft becoming PEAT
--	11.0 - 13.0	1.7	1-1-1-1	TMD	N	N		0.032	1.3	OL	Dk Gray CLAY, some Peat
--	13.0 - 15.0	2.0	WOH-H-H-3	TMD	N	N		0.014	2.9	OL	Dk Gray CLAY, some f Sand, little peat
--	15.0 - 17.0	2.0	4-8-8-13	TMD/GT	N	N		0.014	0.2	OL	Dk Gray CLAY, some f Sand, little peat @ 16 ft becoming Red brown f SAND, some (-) Silt
--	17.0 - 19.0	1.0	10-8-12-13	GT	N	N		0.005	0	SC	Red brown fm SAND and CLAY, little f gravel
--	20.5 - 22.5	0.8	15-6-6-6	GT	N	N		0.008	0.1	CL	Red brown CLAY, trace f sand
--	22.5 - 24.5	1.5	8-8-5-11	GT	N	N		0.005	0	CL	Red brown Silty CLAY, little f sand, trace fm gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
DC-SED1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/20/2001	646,622.5	572,437.0			--						
SED-DC-1	0.0 - 0.5	0.5	DP	DC Sed	N	N		0.044	0.2	SW	Dk brown cmf SAND, some Organics, saturated
DC-SED2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/20/2001	646,168.1	572,448.7			--						
SED-DC-2	0.0 - 0.5	0.5	DP	DC Sed	N	N		0.058	0	SW	Dk brown cmf SAND, some Organics, saturated
DC-SED3	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/20/2001	646,363.9	572,244.7			--						
SED-DC-3	0.0 - 0.5	0.5	DP	DC Sed	N	N		0.746	0.5	ML	Med brown SILT, saturated
DC-SS1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/18/2001	646,620.2	572,440.7			8.1						
DC-SS1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		>0.999	1	SW	Dk brown cmf SAND, some Organics
DC-SS10	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,207.7	572,484.1			8.2						

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	0.0 - 0.5	0.5	DP	Fill	N	N		0.013	3.5	SW	Med to dk brown cmf SAND, little clay
DC-SS11	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,167.8	572,448.9			8.2						
DC-SS11-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.138	16	SW	Dk brown cmf SAND, little mf gravel
DC-SS13	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,181.1	572,394.9			8.3						
DC-SS13-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.139	1.2	GM	Med brown mf GRAVEL, little cmf sand, little silt
DC-SS14	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,216.5	572,365.2			8.4						
--	0.0 - 0.5	0.5	DP	Fill	N	N		0.03	1.2	GW	Med brown cmf GRAVEL, some mc Sand, trace clay
DC-SS15	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,244.8	572,341.7			8.4						
DC-SS15-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.992	2.3	SM	Med brown mf SAND, little mf gravel, little silt

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
DC-SS16	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,302.9	572,294.5			8.4						
--	0.0 - 0.5	0.5	DP	Fill	N	N		0.018	5.7	SW	Dk brown mc SAND, some mf Gravel
DC-SS17	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,297.8	572,259.8			8.3						
DC-SS17-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.252	2.3	GW	Med brown mf GRAVEL, some cmf Sand, little clay, trace organics
DC-SS18	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,370.4	572,233.7			8.3						
--	0.0 - 0.5	0.5	DP	Fill	N	N		0.027	1.6	GW	Med brown cmf GRAVEL, some cmf Sand @ 0.2 ft becoming Red CLAY, little f gravel
DC-SS19	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,415.2	572,215.8			8.2						
--	0.0 - 0.5	0.5	DP	Fill	Y	N		>0.999	1.6	SC	Reddish brown mf SAND and CLAY, little mf gravel
DC-SS2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,618.8	572,494.6			8						

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
DC-SS2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		>0.999	0.4	SW	Dk brown cmf SAND, little mf gravel, little organics
DC-SS20	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,452.9	572,191.5			8.2						
--	0.0 - 0.5	0.5	DP	Fill	N	N		0.047	0.6	CL	Reddish brown CLAY, some cmf Sand, little mc gravel
DC-SS3	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,563.7	572,489.7			8						
DC-SS3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		>0.999	0.4	SW	Dk brown cmf SAND, some m Gravel, some Organics
DC-SS4	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/18/2001	646,515.3	572,491.9			8						
--	0.0 - 0.5	0.5	DP	Fill	N	N		0.061	0.7	SW	Dk brown cmf SAND, little f gravel, trace organics
DC-SS5	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/18/2001	646,459.4	572,477.3			8.1						
--	0.0 - 0.5	0.5	DP	Fill	N	N		0.014	1.4	SW	Dk brown cmf SAND, some mc Gravel, little organics

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
DC-SS6	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,345.3	572,495.5			7.641						
DC-SS6-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.261	0	SW	Med brown cmf SAND, little mf gravel, trace organics
DC-SS7	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,288.5	572,502.2			8.2						
DC-SS7-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.137	7	SW	Med brown cmf SAND, little mf gravel, little organics
DC-SS8	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/18/2001	646,240.6	572,496.6			6.662						
--	0.0 - 0.5	0.5	DP	Fill	N	N		0.003	1.4	CL	Reddish brown CLAY, little f gravel
DC-SS9	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/17/2001	646,210.5	572,495.0			7.566						
DC-SS9-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.123	1	SW	Med brown mf SAND @ 0.2 ft becoming CLAY and cmf SAND, little mf gravel
DSP-1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
10/3/2001	646,406.9	571,995.0			8.053						

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
DSP-1-0-0.5	0.0 - 0.5	0.5	5	Fill	N	N		0.023	0.8	CL	Med brown to red CLAY, some mf Gravel, little cmf sand
--	0.5 - 2.0	1.0	6-4-5	Fill	N	N		0.003	0.3	CL	Med brown to red CLAY, some mf Gravel, little cmf sand
--	2.0 - 4.0	0.8	4-4-5	Fill	N	N		0.003	0	CL	Red CLAY, little f gravel
DSP-1-4-6	4.0 - 6.0		6-5-4-7	Fill	N	N		0.005	34	CL	Red CLAY, mf chunks of shale
--	6.0 - 8.0	1.0	4-2-1-1	Fill	N	N		0	1.6	GP/PT	Black fm GRAVEL, saturated @ 6.5 ft becoming PEAT
--	7.7 - 8.0	0.3	10-10-3-3	TMD	N	N		0	3.8	PT	PEAT
--	9.0 - 11.0	1.5	1-1-1-2	TMD	N	N		0	0.8	PT	PEAT @ 10 ft becoming M brown CLAY and PEAT
--	11.0 - 13.0	0.3	1-1-2-3	GT	N	N		0	0.8	CL	Red brown CLAY, some f Sand, little fm gravel
--	13.0 - 15.0	1.0	4-5-9-12	GT	N	N		0	0.7	ML	Red brown CLAY & SILT, some (-) fm Gravel
--	18.0 - 20.0	1.5	11-17-19-50/5	GT	N	N		0	0.6	ML	Red brown CLAY & SILT, little (+) fm gravel @ 19.4 ft becoming Weathered SHALE

DSP-2

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/4/2001	646,408.7	571,992.7	7.4

DSP-2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		>0.999	5.6	GC	Dk brown mf GRAVEL, some Clay, little mf sand
--	0.5 - 2.0	1.5	DP	Fill	N	N		>0.999	9	CL	Red with trace purple CLAY, little mf gravel, dense
--	2.0 - 4.0	1.5	DP	Fill	N	N		0.184	2.1	CL	Red with trace purple CLAY, little mf gravel, dense @ 3.2 ft becoming Black mf GRAVEL, cinders

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.06	3	CL	Red CLAY, little mf gravel, dense @ 5.5 ft becoming Black mf GRAVEL, cinders
--	6.0 - 8.0	0.5	DP	Fill	N	N	0.041	1.4	GW	Black mf GRAVEL, cinders

DSP-3

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/4/2001	646,424.3	571,961.2	7.6

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
DSP-3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.011	5	CL	Dk brown CLAY, some cmf Gravel, little mf sand, saturated
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.026	2	CL	Reddish brown CLAY, little mf gravel
DSP-3-2-4	2.0 - 4.0	1.5	DP	Fill	N	N	0.035	1.6	CL	Reddish brown CLAY, little mf gravel
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.013	2	CL	Reddish brown CLAY, little mf gravel @ 4.3 ft becoming Lt brown f SAND @ 5.3 ft becoming Red CLAY, dense
--	6.0 - 8.0	1.8	DP	Fill/TMD	N	N	0.011	2.6	GM/PT	Red CLAY, dense @ 6.5 ft becoming Black mf GRAVEL, some c Sand, cinders @ 7.6 ft becoming PEAT.

DSP-4

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/4/2001	646,417.8	571,980.7	7.5

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
DSP-4-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.004	26	CL	Reddish brown CLAY, little mf gravel, little cmf sand, trace organics
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.022	4	CL	Reddish brown CLAY, little mf gravel, little cmf sand, trace organics
--	2.0 - 4.0	1.5	DP	Fill	N	N	0.009	4	CL	Reddish brown CLAY, little mf gravel, little cmf sand, trace organics

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
DSP-4-4-6	4.0 - 6.0	2.0	DP	Fill	N	N	0.008	0.8	CL	Red CLAY, some mf Gravel @ 5 ft becoming Black mf GRAVEL, moist to saturated
--	6.0 - 8.0	1.2	DP	Fill/TMD	N	N	0	28	CL/PT	Red-brwn CLAY, little mf gravel, little cmf sand, trace organics @ 6.5 ft Blk mf GRAVEL, l. c sand, @ 7 ft PEAT.
EC-1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
8/21/2001	646,749.9	572,682.6			--					
EC-1	0.0 - 1.0		DP	Fill	--	--	--	--	CL	Red CLAY and SAND
EC-2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
8/21/2001	646,673.6	572,730.5			--					
EC-2	0.0 - 1.0		DP	Fill	--	--	--	--	CL	Red CLAY and SAND
EC-3	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
8/21/2001	646,592.3	572,789.5			--					
EC-3	0.0 - 1.0		DP	Fill	--	--	--	--	CL	Red CLAY and SAND
EC-4	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
8/21/2001	646,489.2	572,839.8			--					
EC-4	0.0 - 1.0		DP	Fill	--	--	--	--	SM	Sandy, Topsoil

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
EC-5											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/21/2001		646,346.5	572,904.5				--				
EC-5	0.0 - 1.0		DP	Fill	--	--	--	--		SM	SAND, some Silt
EC-6											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/21/2001		646,205.8	573,005.4				--				
EC-6	0.0 - 1.0		DP	Fill	--	--	--	--		SM	SAND, some Silt
EC-7											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/21/2001		646,171.2	573,134.9				--				
EC-7	0.0 - 1.0		DP	Fill	--	--	--	--		SM	SAND, some Silt
EC-8											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/21/2001		646,137.7	573,256.1				--				
EC-8	0.0 - 1.0		DP	Fill	--	--	--	--		SP	Sand
EC-9											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/21/2001		646,101.0	573,375.6				--				

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
EC-9	0.0 - 1.0		DP	Fill	--	--	--	--	SP	Sand
ESR-1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
9/4/2001	646,208.8	572,749.2			8.9					
ESR-1-0-1	0.0 - 0.5	1.0	DP	Fill	N	N	0.056	3.4	GW	Gray c GRAVEL
--	0.5 - 2.0	0.5	DP	Fill	N	N	--	--	SP	Lt brown f SAND
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
ESR-1-4-6	4.0 - 6.0	2.0	DP	Fill	N	N	0.018	77	SP	Lt brown f SAND
--	6.0 - 8.0	1.0	DP	Fill/TMD	N	N	0.004	27	SP/PT	Lt brown f SAND @ 6.5 becoming PEAT
HB-1A	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
4/18/2002	646,648.9	572,212.4			--					
HB-1A	6.8 - 6.8	1.0	DP	Natural Soil	Y	N	0.026	3.6	OL	Black CLAY
HB-3A	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
4/17/2002	646,565.8	572,228.1			--					
HB-3A	5.3 - 5.3	0.5	DP	Fill?	N	N	0.043	5	SC	Dk Brown f SAND, little clay, trace organics

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
HB-3B											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
4/17/2002		646,563.5	572,251.4				--				
HB-3B	4.5 - 4.5	1.0	DP	Natural Soil	Y		N	--	0	CL	Red brown CLAY, dense
HB-3C											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
4/18/2002		646,561.7	572,271.5				--				
HB-3C	4.5 - 4.5	1.0	DP	Natural Soil	Y		N	--	0.2	CL	Red brown CLAY, dense
HB-3D											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
4/18/2002		646,559.3	572,296.3				--				
HB-3D	4.5 - 4.5	1.0	DP	Natural Soil	Y		N	--	0	CL	Red brown CLAY, dense
HB-4A											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
4/19/2002		646,531.2	572,212.0				--				
HB-4A	5.3 - 5.3	1.0	DP		N		N	0.017	1.5	SW	Dk Gray fm SAND, saturated
HB-5A											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
4/22/2002		646,490.9	572,207.8				--				

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
HB-5A	3.0 - 3.0	1.0	DP		N	N	0.008	1.4	CL	M brown CLAY, some mc SAND, little f gravel
HB-7A	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
4/19/2002	646,549.4	572,201.1			--					
HB-7A	5.0 - 5.0	0.5	DP		Y	N	--	0.4	CL	M brown CLAY, some mc Gravel, little organic material (wood)
HB-8A	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
4/23/2002	646,477.9	572,362.6			--					
HB-8A	3.0 - 3.0	1.0	DP		N	N	0.006	0.3	SW	Dk brown mc SAND, some fm Gravel, piece of wood, saturated
HB-8B	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
4/23/2002	646,482.0	572,313.3			--					
HB-8B	4.8 - 4.8	1.0	DP		Y	N	0.012	2.3	CL	Silty CLAY, trace fm gravel
HB-8C	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
4/23/2002	646,485.2	572,278.3			--					
HB-8C	5.5 - 5.5	1.0	DP		N	N	0.003	20	OL	Black and brown CLAY, some fm Gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
HB-9A	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
4/24/2002		646,436.5	572,363.9			--					
HB-9A	4.8 - 4.8	1.0	DP		N		N	0.007	1.7	SW	M Brown mc SAND, little f gravel
HF-B1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/10/2001		645,983.3	572,547.2			7.8					
HF-B1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N		N	0	2.8	GW	Brown mf GRAVEL, little mf sand
--	0.5 - 2.0	0.5	DP	Fill	N		N	0.012	194.3	ML	Reddish brown SILT & CLAY, trace coal
--	2.0 - 4.0	0.0	DP	Fill	--		--	--	--		NR
--	4.0 - 6.0	1.5	DP	Fill	N		Y	0.004	6.4	ML	Red-brwn SILT & CLAY, little mf gravel @ 4.3 ft Black SAND @ 4.6 ft clayey SILT @ 5 ft cmf SAND and mf GRAVEL, sat.
--	6.0 - 8.0	0.0	DP	Fill	--		--	--	--		NR
HF-B1-8-10	8.0 - 10.0	2.0	DP	Fill/TMD	N		Y	0.049	185	GW/PT	Black cmf SAND and mf GRAVEL, saturated, @ 9.5 ft becoming PEAT @ 9.7 ft Gray f SAND, little silt
--	10.0 - 12.0	0.0	DP	TMD?	--		--	--	--		NR
HF-B2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/4/2001		646,817.9	572,662.4			8.2					

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
HF-B2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.023	2.5	SW	Med brown cmf SAND, little mc gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.003	3.2	SW	Med brown cmf SAND, little mc gravel
--	2.0 - 4.0	2.0	DP	Fill	N	N		0.008	2	SP	Lt brown f SAND
HF-B2-4-6	4.0 - 6.0	2.0	DP	Fill	N	N		0.01	2.1	SC	Lt brown f SAND @ 4.3 ft Red CLAY, little f gravel, little cmf sand @ 4.9 ft Blk GRAVEL @ 5.2 ft $ CLAY
--	6.0 - 8.0	2.0	DP	Fill	N	N		0.006	2	ML	Gray Silty CLAY @ 6.7 ft Dk brown mf GRAVEL, some c Sand @ 7.2 ft Lt Orangy brown CLAY, soft
--	8.0 - 10.0	1.5	DP	TMD	N	N		--	--	PT	Peat
--	10.0 - 12.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR

HF-B3

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
10/2/2001	646,916.8	571,629.2	7.593

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
HF-B3-0-.5	0.0 - 0.5	0.5	4	Fill	N	N		0.117	18	CL	Med brown CLAY, some cmf Sand, little mc gravel
--	0.5 - 2.0	0.5	6-2-8	Fill	N	N		0.005	12	CL	Med brown CLAY, some cmf Sand, little mc gravel
--	2.0 - 4.0	1.5	11-9-10-10	Fill	N	N		0.048	6	CL	Red CLAY, some m Gravel, very dense
--	4.0 - 6.0	1.0	10-6-4-5	Fill	N	N		0.02	3.4	CL	Reddish brown CLAY, little mf sand, moist
--	6.0 - 8.0	1.0	5-2-2-2	Fill	N	N		0.041	1	CL	Reddish brown CLAY, moist
HF-B3-8-10	8.0 - 10.0	2.0	2-1-1-1	Fill/TMD	N	N		0.07	32	CL/PT	Reddish brown CLAY, moist @ 8.5 ft becoming PEAT

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	10.0 - 12.0	2.0	1-1-1-1	TMD	N	N	0.044	0.6	PT	PEAT, some Clay
--	12.0 - 14.0	2.0	1-2-1-1	TMD/GF	N	N	0.026	0.4	PT	PEAT (clay rich) @ 13.5 ft becoming Dk Gray to brown CLAY, mottled
--	14.0 - 16.0	1.0	1-1-2-5	GF/GT	N	N	0.006	0.4	CL	Dk Gray to brown CLAY, little fm gravel @ 14.5 ft becoming Red brown CLAY & SILT, some fm Gravel
--	16.0 - 18.0	1.0	3-5-7-8	GT	N	N	0.003	0.2	ML	Red brown CLAY & SILT, some fm Gravel
--	21.0 - 23.0	1.5	3-5-8-10	GT	N	N	0.003	0.2	ML	Red brown CLAY & SILT, little (+) fm gravel, little f sand
--	26.0 - 27.0	1.0	3-5-7-8	GT	N	N	0.003	0.3	ML	Red brown CLAY & SILT, some fm Gravel
--	31.0 - 33.0	1.0	6-9-15-44	GT	N	N	0.059	10.2	GC	Red brown fm GRAVEL and CLAY
--	36.0 - 38.0	0.3	50/2.5	BR	N	N	0.003	3	GC	Red brown fm GRAVEL and CLAY, trace shale

IB-1

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
4/8/2002	646,648.1	572,369.9	8.2

IB-1-0-2	0.0 - 2.0	2.0	DP	Fill	N	N	0.106	0	SW	CONCRETE @ 0.5 ft becoming Lt brown fmc SAND, some mc Gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
IB-1-4-6	4.0 - 6.0	2.0	DP	Fill	N	N	0.02	0	SC	M brown to yellow brown fm SAND, little clay, saturated
--	6.0 - 8.0	2.0	DP	Fill	N	N	0.014	0	SC	M brown to yellow brown fm SAND, little clay, saturated
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.029	0	SW	M brown fm SAND, saturated

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	10.0 - 12.0	2.0	DP	Fill/TMD	N	N	0.032	0	SW/PT	M brown fm SAND, saturated @ 11.5 ft becoming PEAT

IB-2

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
4/8/2002	646,559.3	572,400.3	8.2

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	0.0 - 2.0	1.0	DP	Fill	N	N	0.015	0	GW	Black fm GRAVEL, some fm Sand @ 0.2 ft becoming Red brown mc GRAVEL @ 0.5 ft becoming Yellow mfc GRAVEL
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
IB-2-4-6	4.0 - 6.0	2.0	DP	Fill	N	N	0.048	0	GC	Yellow mfc GRAVEL @ 4.5 ft becoming M brown CLAY, some fm Sand
--	6.0 - 8.0	2.0	DP	Fill	N	N	0.006	1	CL	Black CLAY and fm SAND, some f Gravel
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.004	2.5	OL	Black CLAY, some Organics, little fm gravel
--	10.0 - 12.0	0.0	DP	Fill	--	--	--	--		NR
IB-2-12-14	12.0 - 14.0	2.0	DP	Fill	N	N	0.004	3.7	CL	Black CLAY, some Organics, little fm gravel
--	14.0 - 16.0	0.0	DP	Fill	--	--	--	--		NR
--	16.0 - 18.0	2.0	DP	Fill	N	N	0.031	4	SC	Dk Brown fm SAND and CLAY, some organics @ 16.5 ft becoming Gray f SAND and CLAY @ 17.5 ft become CLAY.
--	18.0 - 20.0	0.0	DP		--	--	--	--		NR

IB-3

State Plane Coordinates (ft. NAD83): 646,437.8 572,388.1
G.S. Elev. (ft. NGVD29): 8.1
4/8/2002

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	USCS	Burmister
--	0.0 - 2.0	2.0	DP	Fill	N	N		0.045	1	GW	Black fm GRAVEL, some mc Sand
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
IB-3-4-6	4.0 - 6.0	1.0	DP	Fill	--	--		0.034	2.6	SW	Black fmc SAND, some mc Gravel, saturated
--	6.0 - 8.0	0.0	DP	Fill	--	--		--	--		NR
IB-3-8-10	8.0 - 10.0	2.0	DP	Fill/TMD	--	--		0.026	1	GM/PT	Black cmf GRAVEL @ 8.4 ft becoming Black CLAY, some fmc Gravel @ 9.5 ft becoming PEAT
--	10.0 - 12.0	0.0	DP	TMD	--	--		--	--		NR

LP-1

State Plane Coordinates (ft. NAD83): 646,561.5 572,590.7
G.S. Elev. (ft. NGVD29): 8.31
8/27/2001

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	USCS	Burmister
LP-1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.028	10.3	SW	Lt brown mf SAND, trace organics
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.355	2.1	CL	Gray CLAY, little mf gravel
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.157	2.4	SP	Orange mf SAND
--	4.0 - 6.0	1.5	DP	Fill	N	N		0.026	9	CL	Gray CLAY, little mf gravel @ 4.2 ft becoming Orange mf SAND @ 4.5 ft becoming SILT & CLAY, some c Gravel, sat.

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--	--		NR
--	8.0 - 10.0	0.0	DP	Fill	--	--	--	--	--		NR
--	10.0 - 12.0	0.0	DP	Fill	--	--	--	--	--		NR
--	12.0 - 14.0	0.5	DP	Fill/TMD	N		N	0.029	3.7	SW/PT	Med brown mf SAND, saturated @ 12.4 becoming PEAT.

LP-10

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/27/2001	646,482.1	572,532.0	8.2

LP-10-0-0.5	0.0 - 0.5	0.5	DP	Fill	N		N	>0.999	4.9	CL	Reddish brown CLAY and f SAND, little m gravel, trace organics
LP-10-0.5-2	0.5 - 2.0	1.5	DP	Fill	N		N	>0.999	3.1	CL	Reddish brown CLAY and f SAND, little m gravel, trace organics
--	2.0 - 4.0	1.5	DP	Fill	N		N	>0.999	0	OL	Gray CLAY @ 2.5 ft becoming Red CLAY and f SAND @ 3 ft becoming Gray CLAY
--	4.0 - 6.0	2.0	DP	Fill	N		N	0.017	0.8	CL	Gray CLAY, little cmf gravel, soft, saturated
--	6.0 - 8.0	2.0	DP	Fill	N		N	0.011	0	CL	Gray CLAY, little cmf gravel, soft, saturated @ 6.5 ft becoming Med brown mf GRAVEL, some c Sand, sat.
--	8.0 - 10.0	2.0	DP	Fill/TMD	N		N	0.01	0.3	CL/PT	Med grown to gray CLAY, little mf gravel, saturated @ 9 ft becoming PEAT.
--	10.0 - 12.0	2.0	DP	TMD	N		N	--	--	PT	Peat

LP-11

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/27/2001	646,435.9	572,540.1	8.4

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
LP-11-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.06	11	SC	Med brown f SAND, little clay, little mc gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N		>0.999	13.6	OL	Gray CLAY, little mf gravel
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.574	5	OL	Gray CLAY, little mf gravel @ 2.6 ft becoming Lt brown f SAND @ 2.8 ft becoming Gray CLAY, little mf gravel
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.003	10.5	OL	Gray CLAY, little f sand @ 5.2 ft becoming mf GRAVEL, little silt, moist to saturated
--	6.0 - 8.0	1.0	DP	Fill	N	N		0	4.2	GM	Gray mf GRAVEL, little silt, saturated
--	8.0 - 10.0	0.0	DP	Fill?	--	--		--	--		NR
--	10.0 - 12.0	0.0	DP	Fill?	--	--		--	--		NR
--	12.0 - 14.0	0.0	DP	Fill?	--	--		--	--		NR
--	14.0 - 16.0	0.0	DP	Fill?	--	--		--	--		NR
--	16.0 - 18.0	2.0	DP	TMD	N	N		--	--	OL	Gray CLAY
--	18.0 - 20.0	0.0	DP	TMD?	--	--		--	--		NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
LP-12											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/27/2001		646,287.8	572,609.8			12					
LP-12-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.025	0	SW	Med brown cmf SAND, little f gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N		0	0	SP	Orange f SAND
--	2.0 - 4.0	1.0	DP	Fill	N	N		0	0.3	SP	Orange f SAND
LP-12-4-6	4.0 - 6.0	2.0	DP	Fill	N	N		0.012	0	SC	Orange to brown mf SAND, little c gravel @ 5.5 ft becoming Gray Silty CLAY
--	6.0 - 8.0	1.0	DP	Fill	N	N		0.003	0	CL	Gray Silty CLAY @ 6 ft becoming Orange f Sand
--	8.0 - 10.0	2.0	DP	Fill	N	N		0	0	GM	Dk brown mf GRAVEL, little silt, trace mf sand, saturated
--	10.0 - 12.0	1.0	DP	Fill	N	N		0	0	GM	Dk brown mf GRAVEL, little silt, trace mf sand, saturated
--	12.0 - 14.0	2.0	DP	Fill	N	N		0	0	GM	Dk brown mf GRAVEL, little silt, trace mf sand @ 13.2 ft become CLAY, very hard @ 13.5 ft become mf GRAVEL, sat.
--	14.0 - 16.0	2.0	DP	TMD	N	N		--	--	PT	Peat
LP-13											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/24/2001		646,386.1	572,542.4			9					
LP-13-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.066	9	CL	Med brown CLAY, little c gravel, little f sand, trace organics

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	0.5 - 2.0	1.5	DP	Fill	N	N	>0.999	7	CL		Med brown CLAY, little c gravel, little f sand, trace organics
--	2.0 - 4.0	1.0	DP	Fill	N	N	0.567	9	SP		Orange f SAND
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.181	15	SC		Orange f SAND @ 4.2 ft becoming Gray CLAY, moist
--	6.0 - 8.0	0.5	DP	Fill	N	N	0	12	GC		Gray cmf GRAVEL and CLAY, trace organics
--	8.0 - 10.0	0.0	DP	TMD?	--	--	--	--	PT		Peat?, NR
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT		Peat?, NR
--	12.0 - 14.0	0.0	DP	TMD	N	N	--	--	PT		Peat

LP-14

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/24/2001	646,361.3	572,565.4	9.9

LP-14-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.003	0.5	SC		Med brown cmf SAND, little mc gravel, trace clay
LP-14-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N	0.782	0	SC		Med brown cmf SAND, little mc gravel, trace clay
--	2.0 - 4.0	2.0	DP	Fill	N	N	0.032	0	SW		Gray cmf GRAVEL and mc SAND @ 3 ft becoming Orange f SAND
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.007	0	SC		Orange f SAND @ 5 ft becoming Red cmf SAND, little f gravel @ 5.3 ft Lt Gray CLAY, saturated.
--	6.0 - 8.0	2.0	DP	Fill	N	N	0.007	0	OL		Lt gray CLAY @ 7 ft becoming Dk brown mf GRAVEL, some cmf Sand, saturated
--	8.0 - 10.0	2.0	DP	Fill	N	N	0	0	ML		Gray SILT & CLAY, little m gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	10.0 - 12.0	2.0	DP	Fill/TMD	N	N	0.007	0	OL/PT	Gray SILT & CLAY, little m gravel @ 11 ft becoming PEAT.

LP-15

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/24/2001	646,318.1	572,556.6	9.5

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
LP-15-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.045	1	SC	Med brown mf SAND, little clay, little m gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.64	1	SC	Med brown cmf SAND, some mc Gravel, little clay
--	2.0 - 4.0	1.0	DP	Fill	N	N	0.069	1	SC	Med brown cmf SAND, some mc Gravel, trace clay @ 2.2 ft becoming Orange f SAND
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.011	0.5	SC	Orange f SAND @ 4.7 ft becoming Red c GRAVEL @ 5.0 ft becoming Gray CLAY, moist
--	6.0 - 8.0	1.0	DP	Fill	N	N	0.005	1	CL	Gray CLAY, moist @ 6.3 ft becoming Med brown cmf SAND, little mc gravel
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.006	0	ML	Orange to Lt Gray CLAY @ 9 ft becoming Med brown SILT & CLAY, little mf gravel, saturated
--	10.0 - 12.0	1.0	DP	TMD	N	N	--	--	PT	Peat

LP-16

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/27/2001	646,349.6	572,541.4	8.6

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
LP-16-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.049	1.8	CL	Med brown CLAY and mf SAND, some mf Gravel
LP-16-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N	0.061	0	CL	Med brown CLAY and mf SAND, some mf Gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	2.0 - 4.0	1.0	DP	Fill	N	N	0.058	1	CL	Med brown CLAY and mf SAND, some mf Gravel @ 2.5 ft becoming Med brown Silty CLAY
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.011	0	CL	Gray CLAY, soft, saturated
--	6.0 - 8.0	1.5	DP	Fill	N	N	0.016	0	CL	Gray CLAY, soft @ 5.3 ft becoming Gray CLAY & SILT, saturated
--	8.0 - 10.0	2.0	DP	Fill/TMD	N	N	0.018	0	OH/PT	Gray CLAY & SILT, saturated @ 9 ft becoming PEAT.
--	10.0 - 12.0	0.5	DP	TMD	N	N	--	--	PT	Peat

LP-2

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/28/2001	646,575.3	572,561.6	8.4

LP-2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.7	1	SM	Med brown f SAND, trace f gravel, trace silt
LP-2-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N	>0.999	4	CL	Reddish gray CLAY, little mc gravel
--	2.0 - 4.0	2.0	DP	Fill	N	N	0.083	4	CL	Red to gray CLAY, trace cmf gravel
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.031	0	SM	Red to gray CLAY, trace f gravel @ 4.7 fmc GRAVEL @ 5.5 ft Reddish brown mf GRAVEL, little c sand
--	6.0 - 8.0	1.0	DP	Fill	N	N	0.015	0.5	CL	White CLAY, dense @ 6.5 ft becoming Black mf GRAVEL @ 6.8 ft becoming Gray CLAY
--	8.0 - 10.0	2.0	DP	Fill/TMD	N	N	0.047	1.1	GM/PT	Med brown cmf GRAVEL @ 8.5 ft becoming Lt. Gray CLAY, little f gravel @ 8.9 becoming PEAT.
--	10.0 - 12.0	1.0	DP	TMD	N	N	--	--	PT	Peat

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
LP-3											
8/27/2001	State Plane Coordinates (ft. NAD83): 646,567.5	572,593.5			G.S. Elev. (ft. NGVD29): 9.5						
LP-3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.013	1.9	SW	Gray mf SAND, little mf gravel
--	0.5 - 2.0	1.0	DP	Fill	N	N		0	1	SP	Orange f SAND
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.005	1.2	SW	Orange f SAND @4.8 becoming Black mf GRAVEL @ 5.5 ft becoming Lt gray Silty CLAY, shards of glass, moist
--	6.0 - 8.0	2.0	DP	Fill	N	N		0	0	ML	Lt Gray Silty CLAY, shards of glass, moist @ 6.5 becoming Orange CLAY, some f Sand
--	8.0 - 10.0	2.0	DP	Fill	N	N		0.007	1	ML	Brownish orange Clayey SILT, trace f Gravel, saturated
--	10.0 - 12.0	2.0	DP	Fill/TMD	N	N		0.011	0.3	ML/PT	Lt Gray SILT @ 11 ft becoming PEAT.
LP-4											
8/21/2001	State Plane Coordinates (ft. NAD83): 646,549.1	572,575.4			G.S. Elev. (ft. NGVD29): 8.9						
LP-4 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.029	13.8	SW	Med brown cmf SAND, some mc Gravel
LP-4 .5-2	0.5 - 2.0	1.5	DP	Fill	N	N		>0.999	32.7	SW	Med brown cmf SAND, some mc Gravel
--	2.0 - 4.0	1.0	DP	Fill	N	N		>0.999	5.1	SM	Med brown cmf SAND, some mc Gravel @ 2.5 ft becoming Red mc SAND, little silt

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	4.0 - 6.0	2.0	DP	Fill	N	N	>0.999	2.1	SC	Med brown to black cmf SAND @ 5.2 ft White CLAY @ 5.3 ft Med brown mc SAND little cmf gravel, sat.
--	6.0 - 8.0	1.0	DP	Fill	N	N	>0.999	0.4	SC	Med brown mc SAND little cmf gravel, saturated @ 6.2 ft becoming White CLAY, saturated.
--	8.0 - 10.0	2.0	DP	Fill/TMD	N	N	>0.999	9.1	OH/PT	Gray CLAY & SILT, saturated @ 9.5 ft becoming PEAT.
--	10.0 - 12.0	2.0	DP	TMD	N	N	--	--	PT	Peat

LP-5

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/27/2001	646,541.9	572,558.1	--

LP-5-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	>0.999	1	SC	Med brown cmf SAND, little clay, little mf gravel, trace organics
--	0.5 - 2.0	1.3	DP	Fill	N	N	>0.999	1.2	SC	Med brown cmf SAND, little clay, little mf gravel, trace organics @ 1 ft becoming Silty CLAY, little f sand, trace mf gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	1.8	DP	Fill	N	N	0.186	0	SM	Med brown mf SAND and SILT, little f gravel @ 5 ft becoming Black mc GRAVEL, little silt
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.213	9	CL	Dk brwn CLAY, some mf Gravel @ 8.2 ft Lt gray Silty CLAY trace f gravel @ 9.5 ft c SAND and f GRAVEL, moist
--	10.0 - 12.0	2.0	DP	TMD	N	N	--	--	PT	Peat

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
LP-6											
8/27/2001	State Plane Coordinates (ft. NAD83): 646,242.9	572,708.0			G.S. Elev. (ft. NGVD29): 12						
LP-6-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.037	0.6	SW	Med brown to orange f SAND, trace c gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N		0	0	SP	Orange f SAND
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.058	0	SP	Orange f SAND
LP-6-4-6	4.0 - 6.0	2.0	DP	Fill	N	N		0.477	0	SP	Orange f SAND
--	6.0 - 8.0	2.0	DP	Fill	N	N		0.049	0	SW	Orange to dk brown mf SAND
--	8.0 - 10.0	0.0	DP	Fill	--	--		--	--		NR
--	10.0 - 12.0	0.0	DP	Fill	--	--		--	--		NR
--	12.0 - 14.0	2.0	DP	TMD	N	N		--	--	PT	Peat
--	14.0 - 16.0	2.0	DP	TMD	N	N		--	--	PT	Peat
LP-7											
8/24/2001	State Plane Coordinates (ft. NAD83): 646,518.6	572,550.9			G.S. Elev. (ft. NGVD29): 8.5						
LP-7-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		>0.999	7	SC	Brown mf SAND, some Clay, little mf gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.871	1	CL	Gray CLAY @ 1 ft becoming Gray CLAY and c GRAVEL @ 1.2 ft becoming Red CLAY, little mf gravel
--	2.0 - 4.0	1.5	DP	Fill	N	N		0.139	1.5	CL	Lt Gray to red CLAY, little to no mf gravel, moist
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.027	0.9	CL	Red CLAY, little mf gravel @ 5 ft Med brown f SAND, some mc Gravel @ 5.6 ft Med Gray CLAY, moist
--	6.0 - 8.0	1.0	DP	Fill	N	N		0.015	1.1	CL	Med Gray CLAY @ 6.2 ft becoming Med brown mf GRAVEL, some mc Sand, moist
--	8.0 - 10.0	2.0	DP	Fill	N	N		0.011	1.7	ML	Med brown SILT and mf GRAVEL @ 9 ft becoming Lt gray SILT & CLAY, saturated
--	10.0 - 12.0	1.0	DP	Fill	N	N		0.008	1.7	ML	Lt gray SILT & CLAY, saturated
--	12.0 - 14.0	2.0	DP	TMD	N	N		--	--	PT	Peat
--	14.0 - 16.0	1.0	DP	TMD	N	N		--	--	PT	Peat

LP-8

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/24/2001	646,501.8	572,582.8	9.8

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
LP-8-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	2.9	SP	Med brown mf SAND
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.023	7	SW	Med brown to gray cmf SAND, some to no c Gravel
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.013	1.7	SC	Orange mf Sand @ 2.8 ft becoming Red CLAY, little mf gravel
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.017	4	GC	Orange f SAND @ 5.5 ft becoming Black mf Gravel, little clay, moist
--	6.0 - 8.0	1.0	DP	Fill	N	N		0.005	0	CL	Gray to white CLAY @ 6.5 ft becoming Med brown to black cmf GRAVEL, little f sand, saturated

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	8.0 - 10.0	2.0	DP	Fill	N	N	0	2.8	CL	Lt gray CLAY, saturated
LP-8-10-12	10.0 - 12.0	2.0	DP	Fill/TMD	N	N	0.037	5	CL/PT	Lt gray CLAY, saturated @ 11 ft becoming PEAT.

LP-9

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/24/2001	646,424.5	572,565.5	9.4

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
LP-9-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.005	0.4	SC	Med brown cmf SAND, some cmf Gravel, trace clay
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.128	0	SC	Med brown cmf SAND, some cmf Gravel, trace clay
--	2.0 - 4.0	2.0	DP	Fill	N	N	0.009	0	SC	Med brown cmf SAND, some cmf Gravel, trace clay @ 3 ft becoming Orange f SAND @ 3.9 ft becoming Gray CLAY
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.009	0.2	SC	Orange f SAND @ 5 ft becoming Lt Gray CLAY, dry to moist
--	6.0 - 8.0	1.0	DP	Fill	N	N	0.051	0	GC	Dk gray mf GRAVEL, some Clay, saturated
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.006	0	SW	Med brown mf SAND @ 9 ft becoming Black mf GRAVEL, little cmf sand, saturated
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR
--	12.0 - 14.0	0.0	DP	TMD	N	N	--	--	PT	Peat

MW-B16

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
10/3/2001	647,001.3	572,297.6	6.349

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	0.0 - 0.5	0.3	50/5	Fill	N	N	0.02	0.8	SW	Brown cmf SAND, little f gravel
--	0.5 - 2.0	0.0	DP	Fill	--	--	--	--		NR
--	2.0 - 4.0	0.0	26-38-50	Fill	--	--	--	--		NR
--	4.0 - 6.0	1.0	5-7-7-6	Fill	N	N	0.105	8.8	GW	Black f GRAVEL, some cmf Sand, saturated
--	6.0 - 8.0	1.2	2-3-4-4	Fill	N	N	0.121	20	GW	Black f GRAVEL, some cmf Sand, saturated
--	8.0 - 10.0	1.0	2-4-4-3	Fill	N	N	0.048	27	GW	Black f GRAVEL, some cmf Sand, saturated
--	10.0 - 12.0	0.7	2-2-1-1	Fill	N	N	0.108	61	GW	Black f GRAVEL, some cmf Sand, saturated
--	13.0 - 15.0	1.5	1-1-1-2	TMD	N	N	0.003	297	OL	Lt. Gray/brown Clayey SILT, some f Sand, occasional peat, saturated
--	15.0 - 17.0	2.0	10-10-11-4	TMD	N	N	0.003	234	OL/PT	Clayey SILT, some f Sand, occ. peat, sat. @ 16 ft SILT and f SAND, tr. f gravel @ 16.5 ft fm SAND, tr silt, sat.
--	17.0 - 19.0	2.0	9-9-10-12	TMD/GF	N	N	0.006	279	SW	Lt. Gray fm SAND, trace silt, saturated @ 18 ft becoming Red brown SILT, trace f sand, slightly stratified
--	19.0 - 21.0	2.0	14-15-14-50/4	GF/GT	N	N	0	1475	SM	Dk Gray fm SAND, trace Silt @ 20.5 ft becoming Red brown f SAND and SILT, little f gravel, little cm sand
--	24.0 - 26.0	1.5	2-4-6-9	GT	N	N	0	188	ML	Red brown CLAY & SILT, little f gravel, trace fmc sand, saturated
--	29.0 - 31.0	1.5	3-5-7-9	GT	N	N	0.006	34	ML	Red brown SILT & CLAY, trace fmc sand, saturated
--	34.0 - 36.0	1.5	3-5-7-8	GT	N	N	0	88	ML	Red brown CLAY & SILT, little fm gravel, trace fm sand, saturated
--	39.0 - 41.0	0.3	50/3	BR	N	N	0.015	79	GW	Red brown weathered shale

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
PCA-1											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
7/17/2001		646,826.8	571,391.6			7.5					
PCA-1-0-.5	0.0 - 2.0	2.0	DP	Fill	N	N		0.005	0	SM	Dk browm mc SAND, some cmf Gravel @ 0.5 ft becoming Red SILT & CLAY, some cmf Gravel, trace f sand.
--	2.0 - 4.0	1.4	DP	Fill	N	N		0.004	0	ML	Red SILT & CLAY, some cmf Gravel, trace f sand
PCA-1-4-6	4.0 - 6.0	2.0	DP	Fill	N	N		0.005	20	ML	Red SILT & CLAY, some cmf Gravel, trace f sand
--	6.0 - 8.0	2.0	DP	Fill	N	N		0	0	ML	Red SILT & CLAY, some cmf Gravel, trace f sand @ 7 ft becoming Black cmf GRAVEL, saturated.
--	8.0 - 10.0	2.0	DP	Fill	N	N		0.007	0	ML	Red brown SILT & CLAY, little f gravel @ 8.5 ft. becoming Black cmf GRAVEL.
--	10.0 - 12.0	0.4	DP	TMD	N	N		0.005	0	PT	Peat
PCA-2											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
7/17/2001		646,944.0	571,703.6			8.1					
PCA-2-0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.493	0	SW	Med brown cmf SAND, some mc Gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.149	--	SM	Red brown f SAND and SILT, trace organics
--	2.0 - 4.0	2.0	DP	Fill	N	N		0.157	--	SM	Red brown f SAND and SILT, trace organics
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.007	0	ML	Red brown SILT & CLAY

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	6.0 - 8.0	2.0	DP	Fill	N		N	0.006	0	SM	Orange mf SAND, little silt
--	8.0 - 10.0	2.0	DP	Fill	N		N	0.054	0	ML	Red SILT & CLAY @ 8.5 ft becoming Orange mf SAND, little silt, saturated
--	10.0 - 12.0	2.0	DP	Fill/TMD	N		N	0.05	0	SM	Orange mf SAND, little silt, saturated @ 10.5 ft becoming Red f SAND and SILT, little clay @ 11.5 ft becoming PEAT.
PCA-3	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/13/2001	646,473.7	572,050.6			8.1						
PCA-3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N		N	0.024	4.5	SW	Lt brown f SAND, little f gravel, trace organics
--	0.5 - 2.0	1.5	DP	Fill	N		N	0.009	7	SW	Black cmf SAND, little f gravel, cinders
--	2.0 - 4.0	1.0	DP	Fill	N		N	0.008	7.6	SW	Black cmf SAND, little f gravel
PCA-3-4-6	4.0 - 6.0	2.0	DP	Fill	N		N	0.015	11	GW	Black mf GRAVEL, some c Sand, saturated @ 5.5 ft
--	6.0 - 8.0	1.0	DP	Fill	N		N	--	--	GW	Black mf GRAVEL, some c Sand, saturated
PCA-4	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/13/2001	646,258.3	572,204.8			8.1						
PCA-4-0-0.5	0.0 - 0.5	0.5	DP	Fill	N		N	0.006	>250	SW	Med brown cmf SAND, little mf gravel
--	0.5 - 2.0	1.5	DP	Fill	N		N	0	1.7	ML	Reddish brown SILT & CLAY, little f sand, little mf gravel, dry

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	2.0 - 4.0	1.5	DP	Fill	N	N		0	1.7	ML	Reddish brown SILT & CLAY, little f sand, little mf gravel, dry
PCA-4-4-6	4.0 - 6.0	2.0	DP	Fill	N	Y		0.006	365	CL/GW	Red CLAY @ 5 ft Black mf GRAVEL, little cmf sand, moist
--	6.0 - 8.0	0.0	DP	Fill?	--	--		--	--		NR

PCA-5

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/7/2001	646,665.9	572,391.6	8.2

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
PCA-5-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.003	8	SC	Med brown cmf SAND, some Clay, moist
PCA-5-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N		0	5.6	SC	Med brown cmf SAND, some Clay, moist @ 0.7 ft becoming Red CLAY, some mf Gravel, dense
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	1.5	DP	Fill	N	N		0	4.8	CL	Med brown CLAY, little f sand
--	6.0 - 8.0	0.0	DP	Fill?	--	--		--	--		NR

PCA-6

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/7/2001	646,793.7	572,287.1	8

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
PCA-6-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	7	CL	Red CLAY, some cmf Sand, little mf gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N		0	7	CL	Red CLAY, some cmf Sand, little mf gravel @ 1 ft becoming Black mf GRAVEL, little clay, moist

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--			NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0	4		CL	Med brown CLAY, some mf Gravel, saturated
--	6.0 - 8.0	2.0	DP	Fill	N	N	0	7		GW	Black mf GRAVEL

RR-1

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/22/2001	646,555.1	572,102.1	8.7

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
RR-1 0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	123	GW	Med brown mc GRAVEL and cmf SAND, trace organics
--	0.5 - 2.0	1.5	DP	Fill	N	N		0	164	GW	Med brown mc GRAVEL and cmf SAND, trace organics @ 1.5 ft becoming Gray CLAY, little m gravel.
--	2.0 - 4.0	1.0	DP	Fill	N	N		0	71.7	CL	Gray CLAY, little m gravel @ 2.5 ft becoming Red CLAY, trace m gravel.
--	4.0 - 6.0	2.0	DP	Fill	N	N		0	164	CL	Red CLAY, some c Gravel
--	6.0 - 8.0	2.0	DP	Fill	N	N		0	148	CL	Red CLAY, some c Gravel, moist
--	8.0 - 10.0	2.0	DP	Fill	N	N		0	>250	CL	Med brown CLAY, some c Gravel, little mf sand @ 9 ft becoming Black CLAY, moist.
--	10.0 - 12.0	1.0	DP	Fill	N	N		0	145	CL	Red Clay, moist
--	12.0 - 14.0	2.0	DP	Fill	N	N		0.007	>250	SC	Med brown cmf SAND some Clay, saturated
RR-1 14-16	14.0 - 16.0	2.0	DP	Fill	N	N		0.047	>250	SC	Med brown cmf SAND, some Clay @ 14.5 ft becoming Dk gray to red CLAY, some mf GRAVEL
--	16.0 - 18.0	2.0	DP	Fill	N	N		0.085	>250	CL	Red CLAY, little mf GRAVEL. Refusal @ 18 ft.

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
RR-10	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
10/12/2001	645,686.8	572,775.3			--						
RR-10 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	13.7		
RR-11	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
10/12/2001	645,586.1	572,862.7			--						
RR-11 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	4.2		
RR-12	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
10/12/2001	645,479.9	572,946.3			--						
RR-12 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	4.2		
RR-2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/13/2001	646,433.1	572,150.1			8.1						
RR-2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.006	4	GW	Dk brown cmf GRAVEL, little c sand, moist
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.003	2.6	GW	Med brown c GRAVEL, little clay @ 1.7 ft becoming Reddish brown CLAY little mf gravel, dense, moist
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.005	6	ML	Wood pieces @ 4.2 Lt gray SILT & CLAY @ 4.5 ft Dk brown f GRAVEL, some cmf Sand, moist to sat.
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
RR-2-8-10	8.0 - 10.0	2.0	DP	Fill	N	N	0	16	SW	Reddish brown to black c SAND and f GRAVEL, saturated
--	10.0 - 12.0	1.5	DP	TMD	N	N	--	--	PT/PT	Peat

RR-3

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/13/2001	646,319.2	572,120.1	7.7

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
RR-3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.015	99	SC	Med brown cmf SAND and mf GRAVEL, trace clay, trace glass fragments
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.009	245	SC	Dk brown mc SAND, little f gravel @ 1 ft becoming Red CLAY, little mf gravel, very dense
--	2.0 - 4.0	1.5	DP	Fill	N	N	0.008	143	CL	Red CLAY, little mf gravel, very dense
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.007	172	CL	Red CLAY, little mf gravel, very dense
--	6.0 - 8.0	2.0	DP	Fill	N	N	0.008	60	CL	Red CLAY, little to some mf gravel @ 7.5 ft becoming Black mf GRAVEL, little cmf sand, dry to saturated
--	8.0 - 10.0	2.0	DP	Fill/TMD	N	N	0.008	54	GW/PT	Black mf GRAVEL, little cmf sand, saturated @ 9 ft becoming PEAT.
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
RR-4	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/10/2001	646,314.6	572,216.0			8.2						
RR-4-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.018	6.2	SW	Brown mf SAND, some cm Gravel
--	0.5 - 2.0	1.0	DP	Fill	N	N		0.019	0.6	SW	Dk brown cmf SAND, some mf Gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.019	3.7	SW	Dk brown to black cmf SAND, little mf gravel, wet,
RR-4-6-8	6.0 - 8.0	2.0	DP	Fill	N	Y		0.026	27	SW	Dk brown mc SAND, some mf Gravel
--	8.0 - 10.0	1.2	DP	Fill/TMD	N	Y		0.024	180.1	SW/PT	Black cmf SAND, little mf gravel, wet, @ 9 ft becoming PEAT.
--	10.0 - 12.0	0.0	DP	TMD?	--	--		--	--	PT	Peat?, NR
RR-5	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/10/2001	646,192.8	572,330.4			8.2						
RR-5-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.03	2.8	SW	Brown mf SAND, some cmf Gravel, dry
--	0.5 - 2.0	1.5	DP	Fill	N	N		0	1.7	SW	Black to brown cmf SAND, little mf gravel, coal fragments?, dry
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.004	91	SW	Black to brown cmf SAND, some mf Gravel, wet @ 5 ft.
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	1.5	DP	Fill	N	N	0.006	126	SW	Black cmf SAND, some mf Gravel, wet
--	10.0 - 12.0	0.0	DP	Fill?	--	--	--	--		NR
--	12.0 - 14.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR
--	14.0 - 16.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

RR-6

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/10/2001	646,082.8	572,475.9	7.9

RR-6-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.005	1	SW	Brown mf SAND, some Gravel, trace organics
--	0.5 - 2.0	1.5	DP	Fill	N	N	0	1.5	ML	SILT & CLAY, trace cmf gravel @ 1.5 ft becoming cmf SAND, little mf gravel, little silt
--	2.0 - 4.0	1.0	DP	Fill	N	N	0	2.4	SM	Brown cmf SAND, little mf gravel, little silt, little clay
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.003	3.3	ML	Red-brn SILT & CLAY, trace mf gravel @ 4.5 ft mf SAND and mf GRAVEL @ 5.5 Black mf SAND tr, gravel, organics,
RR-6-6-8	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	1.5	DP	Fill	N	Y	0.006	44.1	ML	Reddish brown Clayey SILT, trace gravel @ 8.5 ft become cmf SAND @ 9.5 ft Olive cmf SAND, some Gravel
--	10.0 - 12.0	0.0	DP	Fill	--	--	--	--		NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	12.0 - 14.0	2.0	DP	TMD	N	N	--	--	PT	Peat
--	14.0 - 16.0	2.0	DP	TMD	N	N	--	--	PT	Peat
RR-7	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
9/10/2001	646,058.1	572,549.0			7.5					
RR-7-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.021	29.2	GM	Reddish brown mf GRAVEL, little mf sand @ 0.2 ft becoming SILT & CLAY, little mf gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.668	12.5	ML	Reddish brown SILT & CLAY, little mf gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.118	6.5	SM	Reddish brown f SAND, some Silt & Clay, little mf gravel
--	6.0 - 8.0	1.0	DP	Fill	N	N	--	--	SM	Reddish brown f SAND, some Silt & Clay, little mf gravel
--	8.0 - 10.0	2.0	DP	Fill/TMD	N	Y	0.03	8.7	SM/PT	Reddish brown f SAND some Silt & Clay, little mf gravel @ 8.3 ft mf GRAVEL and cm SAND, @ 8.5 ft PEAT.
--	10.0 - 12.0	2.0	DP	TMD	N	N	--	--	PT	Peat
RR-8	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
9/26/2001	645,899.5	572,595.2			7.8					
RR-8-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.017	1	GW	Dk brown mf GRAVEL, some mc Sand, little c gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.012	1.2	GW	Dk brown mf GRAVEL, some mc Sand, little c gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.008	65	GW	Black cmf Gravel, saturated
RR-8-6-8	6.0 - 8.0	1.2	DP	Fill/TMD	N	N	0.007	175	GW/PT	Black cmf Gravel, saturated @ 7 ft becoming PEAT.
RR-9	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
10/12/2001	645,805.3	572,665.0			--					
RR-9 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N	0	12		
SC-1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
8/21/2001	646,140.4	573,027.1			--					
SC-1	0.0 - 1.0		DP	Fill	--	--	--	--	SW	Sandy loam
SC-2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
8/22/2001	646,117.4	573,142.4			--					
SC-2	0.0 - 1.0		DP	Fill	--	--	--	--	SM	Sandy, Topsoil

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
SC-3	State Plane Coordinates (ft. NAD83)			G.S. Elev. (ft. NGVD29)						
8/22/2001	646,087.2	573,242.7		--						
SC-3	0.0 - 1.0		DP	Fill	--	--	--	--	SM	Sandy, Topsoil
SED-1	State Plane Coordinates (ft. NAD83)			G.S. Elev. (ft. NGVD29)						
8/22/2001	646,736.8	572,545.7		--						
SED-1 (0.0-0.5FT)	0.0 - 0.5	0.5	DP	SBC Sed	--	--	--	--	GP	Dark GRAVEL, loose sediment
SED-1 (0.5-1.0FT)	0.5 - 1.0	0.5	DP	SBC Sed	--	--	--	--	GW	Dark GRAVEL, loose sediment
SED-1 (1.0-1.5FT)	1.0 - 1.5	0.5	DP	SBC Sed	--	--	--	--	GW	Dark GRAVEL, loose sediment
SED-2	State Plane Coordinates (ft. NAD83)			G.S. Elev. (ft. NGVD29)						
8/22/2001	646,746.3	572,665.0		--						
SED-2 (0.0-0.5FT)	0.0 - 0.5	0.4	DP	SBC Sed	--	--	--	--	ML	Silt, loose sediment
SED-2 (0.5-1.0FT)	0.5 - 1.0	0.4	DP	SBC Sed	--	--	--	--	GP	Dark GRAVEL
SED-2 (1.0-1.5FT)	1.0 - 1.5	0.4	DP	SBC Sed	--	--	--	--	GP	Dark GRAVEL

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
SED-3	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/22/2001		646,498.2	572,819.0				--				
SED-3 (0.0-0.5FT)	0.0 - 0.5	0.6	DP	SBC Sed	--	--	--	--	--	SM	SAND, some Silt
SED-3 (0.5-1.0FT)	0.5 - 1.0	0.6	DP	SBC Sed	--	--	--	--	--	GW/ML	Sandy GRAVEL (top), silty clay (bottom)
SED-3 (1.0-1.5FT)	1.0 - 1.5	0.6	DP	SBC Sed	--	--	--	--	--	ML	Silty CLAY, heavy vegetation
SED-4	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/22/2001		646,188.8	572,991.4				--				
SED-4 (0.0-0.5FT)	0.0 - 0.5	0.6	DP	SBC Sed	--	--	--	--	--	SW	SAND and GRAVEL
SED-4 (0.5-1.0FT)	0.5 - 1.0	0.6	DP	SBC Sed	--	--	--	--	--	CL	CLAY and GRAVEL
SED-5	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/22/2001		646,101.7	573,275.0				--				
SED-5 (0.0-0.5FT)	0.0 - 0.5	0.7	DP	SBC Sed	--	--	--	--	--	ML	SILT & CLAY, vegetation
SED-5 (0.5-1.0FT)	0.5 - 1.0	0.7	DP	SBC Sed	--	--	--	--	--	ML	SILT & CLAY, vegetation
SED-5 (1.0-1.5FT)	1.0 - 1.5	0.7	DP	SBC Sed	--	--	--	--	--	ML	SILT & CLAY, vegetation

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
SED-6	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
11/20/2001	646,020.8	573,557.6			--					
SED-6 (0.0-0.5FT)	0.0 - 0.5		DP		--	--	--	--		
SED-6 (0.5-1.0FT)	0.5 - 1.0		DP		--	--	--	--		
SED-6 (1.0-1.5FT)	1.0 - 1.5		DP		--	--	--	--		
SILO-B1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)					
9/6/2001	646,304.7	572,345.4			8.5					
SILO-B1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0	11	GM	Black mf GRAVEL, some f Sand, little clay
--	0.5 - 2.0	1.5	DP	Fill	N	N	0	9	CL	Reddish brown CLAY, trace f sand
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0	81	CL	Reddish brown CLAY, some f Sand
SILO-B1-6-8	6.0 - 8.0	2.0	DP	Fill	N	N	0	166	CL	Black CLAY, some Organics
--	8.0 - 10.0	0.0	DP	Fill	--	--	--	--		NR
--	10.0 - 12.0	0.0	DP	Fill	--	--	--	--		NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	12.0 - 14.0	2.0	DP	TMD	N	N	--	--	PT	Peat
--	14.0 - 16.0	1.0	DP	TMD	N	N	--	--	PT	Peat

SILO-B2

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/6/2001	646,280.4	572,323.8	8.4

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
SILO-B2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0	10	SW	Dk brown cmf SAND, some mf Gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N	0	7.9	SW	Dk brown cmf SAND, some mf Gravel @ 1 ft c. GRAVEL, some cmf Sand @ 1.3 ft red CLAY, little gravel, little mf sand
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	1.0	DP	Fill	N	N	0	26	CL	Dk brown CLAY, some mc Gravel, saturated
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	1.2	DP	Fill/TMD	N	N	0	>250	GW/PT	Black mf Gravel, some c Sand, saturated @ 9 ft becoming PEAT.
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

SILO-B3

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/6/2001	646,306.2	572,297.2	8.4

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
SILO-B3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0	14	GW	Black mf GRAVEL

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	0.5 - 2.0	1.5	DP	Fill	N	N	0	0.8	CL	Red CLAY, trace f gravel, dense
--	2.0 - 4.0	1.0	DP	Fill	N	N	0	9	CL	Red CLAY, trace f gravel, dense
--	4.0 - 6.0	2.0	DP	Fill	N	N	0	7	CL	Med brown to red CLAY, some to little mf Gravel, moist to saturated
SILO-B3-6-8	6.0 - 8.0	1.5	DP	Fill/TMD	N	N	0	15	CL/PT	Red CLAY, trace f gravel, saturated @ 7 ft becoming PEAT.

SILO-B4

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/6/2001	646,330.8	572,321.0	8.5

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
SILO-B4-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.005	8	GC	Med brown cmf GRAVEL and CLAY, some cmf Sand
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.004	16	GC	Med brown cmf GRAVEL and CLAY, some cmf Sand @ 0.7 ft becoming Black f GRAVEL and mf SAND, little clay, moist
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.003	14	CL	Reddish brown CLAY, some mc Gravel, saturated
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	2.0	DP	TMD	N	N	0	27	CL	Reddish brown CLAY, some mc Gravel, saturated
--	10.0 - 12.0	2.0	DP	TMD	N	N	0.003	37	PT	Peat @ 10.5 ft becoming Reddish brown CLAY, trace mf gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
SPR-1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/5/2001	647,007.5	572,500.3			6.5						
SPR-1-0-0.5	0.0 - 2.0	0.7	DP	Fill	N	N		0.396	63	GW	c GRAVEL, little mf sand, chunks of wood
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	0.0	DP	Fill	--	--		--	--		NR
--	6.0 - 8.0	0.0	DP	Fill	--	--		--	--		NR
SPR-1-8-10	8.0 - 10.0	2.0	DP	Fill	N	N		0.011	24	GW	Black f GRAVEL, some c Sand, cinders
--	10.0 - 12.0	0.0	DP	TMD	--	--		--	--	PT	Peat in shoe, NR
SPR-2A	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
7/19/2001	647,032.0	572,302.5			6.5						
SPR-2A-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.029	18	SW	Med brown c GRAVEL and cmf SAND
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.024	12.3	GW	Black mf GRAVEL
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.022	25.1	GC	Black cmf GRAVEL, little red clay

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	6.0 - 8.0	1.0	DP	Fill	N	N	0.025	14.4	GC	Black cmf GRAVEL, little red clay
SPR-2A-8-10	8.0 - 10.0	2.0	DP	Fill	N	N	0.024	28	GW	Black mc GRAVEL, moist
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT	Soft probably Peat, NR.

SPR-2B

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/19/2001	646,993.1	572,305.4	6.7

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
SPR-2B-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.037	1	GW	Gray cmf GRAVEL, some cmf Sand, little asphalt
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.024	7	GW	Gray cmf GRAVEL, some cmf Sand, little asphalt
--	2.0 - 4.0	1.5	DP	Fill	N	N	0.036	42	GM	Gray cmf GRAVEL, some cmf Sand, little asphalt @ 3 ft becoming Red SILT & CLAY, little mc gravel.
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.035	42	GW	Black cmf GRAVEL, moist
--	6.0 - 8.0	2.0	DP	Fill	N	N	0.029	42	GW	Black cmf GRAVEL, moist
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.041	14	GW	Black mf GRAVEL, little c sand, trace silt, moist
SPR-2B-10-12	10.0 - 12.0	1.8	DP	Fill/TMD	N	N	0.059	14	GW/PT	Black mf GRAVEL, little c sand, trace silt, moist @ 11.6 ft becoming PEAT.

SPR-3

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/21/2001	646,828.7	572,210.7	8.2

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
SPR-3 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.023	2.5	SM	Med reddish brown cmf SAND, little c gravel, trace silt & clay.
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.048	2.1	SM	Med reddish brown cmf SAND, little c gravel, trace silt & clay @ 1 ft becoming Silty CLAY.
--	2.0 - 4.0	0.5	DP	Fill	N	N	0.333	1.7	ML	Reddish brown Silty CLAY
SPR-3 4-6	4.0 - 6.0	2.0	DP	Fill	N	N	0.851	1.5	SW	Medium brown cmf SAND, trace c gravel, trace silt @ 5 ft becoming Black mc SAND, some f Gravel, moist.
--	6.0 - 8.0	1.1	DP	Fill	N	N	0.048	3.8	SW	Black mc SAND, some f Gravel, moist
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.045	13.8	SW	Black mc SAND and f GRAVEL, moist
--	10.0 - 12.0	1.0	DP	Fill	N	N	0.051	93.2	SW	Black mc SAND and f GRAVEL, moist
--	12.0 - 14.0	2.0	DP	Fill	N	N	0.107	8	SW	Black mc SAND, some f Gravel, saturated

SPR-4A

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/19/2001	647,024.9	572,323.1	6.5

SPR-4A-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.01	4.2	GW	Gray c GRAVEL, some mf Sand
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.018	13.3	ML	Med brown SILT & CLAY, little cmf gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.031	28.7	GM	Black cmf GRAVEL, little silt @ 5.5 ft becoming Dk Gray SILT & CLAY.
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
SPR-4A-8-10	8.0 - 10.0	2.0	DP	Fill/TMD	N	N	0.483	27.2	GP/PT	Black f GRAVEL, trace silt @ 9.5 ft becoming PEAT.
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

SPR-4B

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/22/2001	647,009.4	572,370.5	6.7

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
SPR-4B-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.23	189.6	SW	Gray c Gravel @ 0.2 ft becoming Med brown cmf SAND, little mf gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.084	76.4	SW	Med brown cmf SAND, little mf gravel @ 1.5 ft becoming Gray mf Gravel, some cmf Sand.
--	2.0 - 4.0	0.8	DP	Fill	N	N	0.084	>250	GW	Gray mf GRAVEL, some cmf Sand
SPR-4B-4-6	4.0 - 6.0	2.0	DP	Fill	N	N	0.036	132	SW	Med brown mfc Sand, trace mf gravel @ 5 ft becoming Black mf GRAVEL and c SAND (cinders)
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	1.0	DP	Fill	N	N	0.049	>250	GW	Black mf GRAVEL, some c Sand, moist
--	10.0 - 12.0	0.0	DP	Fill/TMD	--	--	--	--	PT	PEAT @ 11.5'?, NR

SPR-4C

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/23/2001	647,006.5	572,426.0	6.6

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
SPR-4C-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.108	1.4	CL	Dk brown CLAY, some c Gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.093	23.6	CL		Dk brown CLAY, some c Gravel @ 1 ft becoming Black mc SAND and f GRAVEL
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--			NR
SPR-4C-4-6	4.0 - 6.0	2.0	DP	Fill	N	N	0.094	46	SW		Black mc SAND and f GRAVEL, saturated
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--			NR
--	8.0 - 10.0	1.0	DP	Fill/TMD	N	N	0.052	24.9	SW/PT		Black mc SAND and f GRAVEL, saturated @ 9 ft becoming PEAT.
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT		Peat?, NR

SPR-5

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/5/2001	647,058.1	572,121.1	7.3

SPR-5-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.01	3	SW		Dk brown cmf SAND, little mc gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.003	77	SW		Brown cmf SAND, little mc gravel @ 1 ft becoming cmf GRAVEL, little cmf sand
SPR-5-2-4	2.0 - 4.0	1.0	DP	Fill	N	N	0.004	128	SW		Black f GRAVEL and c SAND, cinders, moist
--	4.0 - 6.0	1.2	DP	Fill/TMD	N	N	0.006	46	SW/PT		Black f GRAVEL and c SAND, cinders, moist @ 5 ft becoming PEAT.
--	6.0 - 8.0	0.0	DP	TMD?	--	--	--	--	PT		Peat?, NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
SPR-6	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/13/2001	646,824.1	571,826.8			8.1						
SPR-6-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.011	2	SW	Med brown cmf SAND and m GRAVEL
SPR-6-0.5-2	0.5 - 2.0	1.5	DP	Fill	N	N		0.006	1.3	SW	Med brown cmf SAND and m GRAVEL
--	2.0 - 4.0	2.0	DP	Fill	N	N		0.005	0	SW	Med brown cmf SAND and m GRAVEL @ 2.5 ft becoming Red CLAY, little mf gravel
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.006	0	CL	Red CLAY, little mf gravel
--	6.0 - 8.0	2.0	DP	Fill	N	N		0.004	0	CL	Red CLAY, little to none mf gravel, no to little f sand
--	8.0 - 10.0	2.0	DP	Fill	N	N		0.004	1.1	CL	Red CLAY, little f sand
--	10.0 - 12.0	2.0	DP	Fill/TMD	N	N		0.006	0.6	CL/PT	Red CLAY, little f sand @ 11 ft becoming PEAT
SR-1	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
7/17/2001	646,195.5	572,718.6			--						
SR-1-0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		--	--	SP	cmf SAND
SR-2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
7/17/2001	646,169.3	572,721.7			--						

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
SR-2-0-.5	0.0 - 0.5	0.5	DP	Fill	N	N	--	--	SP	cmf SAND
ST-1	State Plane Coordinates (ft. NAD83)			G.S. Elev. (ft. NGVD29)						
9/5/2001	646,909.6	572,468.1		7.4						
ST-1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.037	3	SC	Dk brown cmf SAND, some Clay, little mc gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N	0	2	SC	Dk brown cmf SAND, some Clay, little mc gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0	2.9	SC	Black cmf SAND, some f Gravel, some Clay @ 5.5 ft becoming Red CLAY
--	6.0 - 8.0	1.0	DP	Fill	N	N	0.003	9	SW	Brown mf SAND @ 6.5 ft becoming Black f GRAVEL, some c Sand
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.04	12	GW	Black f GRAVEL, some c Sand
--	10.0 - 12.0	0.0	DP	TMD	--	--	--	--	PT	Peat in shoe, NR
ST-2	State Plane Coordinates (ft. NAD83)			G.S. Elev. (ft. NGVD29)						
9/5/2001	646,851.6	572,445.8		8						
ST-2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.198	3	SC	Black cmf SAND, some Clay, little mf gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N	>0.999	2.9	SC	Black cmf SAND, some Clay, little mf gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	0.7	DP	Fill	N	N	0.019	6.5	GW	c GRAVEL and ORGANIC MATERIAL, saturated
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.039	42	SW	Med brown mf SAND, little mf gravel, little organics, saturated
--	10.0 - 12.0	0.0	DP	Fill	--	--	--	--		NR
--	12.0 - 14.0	2.0	DP	Fill/TMD	N	N	0.035	6.2	SC	Med brown mf SAND, little mf gravel, little organics, saturated @ 13 ft becoming Gray Clay, some Organics
--	14.0 - 16.0	2.0	DP	TMD	N	N	0.726	22	CL	Gray CLAY, some Organics

ST-3

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/4/2001	646,809.0	572,580.2	7.4

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
ST-3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.035	2.6	SP	Lt brown f SAND
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.003	2.4	SP/GW	Brown f SAND @ 1.5 ft becoming mf GRAVEL some cmf Sand
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
ST-3-4-6	4.0 - 6.0	2.0	DP	Fill/TMD	N	N	0	5.3	SW/PT	Med brown cmf SAND, trace organics @ 5 ft becoming PEAT.
--	6.0 - 8.0	1.0	DP	TMD	N	N	--	--	PT	Peat

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
TLN-1											
8/20/2001	State Plane Coordinates (ft. NAD83): 647,008.0	572,179.0			G.S. Elev. (ft. NGVD29): 6.8						
TLN-1 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.562	0.9	GW	Med brown mc GRAVEL, some mc Sand
TLN-1 .5-2	0.5 - 2.0	1.5	DP	Fill	N	N		0.057	24.3	SW	Reddish brown c SAND and cmf Gravel
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.025	8	SW	Reddish brown c SAND and cmf Gravel @ 2.5 ft becoming CLAY, little f sand.
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.025	1.6	GW	Black cmf GRAVEL, moist
--	6.0 - 8.0	1.2	DP	Fill	N	N		0.035	6.5	GM	Black cmf GRAVEL @ 7 ft becoming Med brown f SAND and SILT, moist to saturated
--	8.0 - 10.0	2.0	DP	Fill/TMD	N	N		0.029	1.9	GW/PT	Med brown cmf GRAVEL, some mf Sand @ 9.5 ft becoming PEAT.
--	10.0 - 12.0	1.0	DP	TMD	N	N		--	--	PT	Peat
TLN-2											
7/19/2001	State Plane Coordinates (ft. NAD83): 647,001.4	572,252.4			G.S. Elev. (ft. NGVD29): 6.7						
TLN-2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.026	10.6	GW	Gray cmf GRAVEL, trace c sand
--	0.5 - 2.0	2.0	DP	Fill	N	N		>0.999	132	GW	Gray cmf GRAVEL, trace c sand
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.06	192.3	GW	Gray cmf GRAVEL, trace c sand @ 3 ft becoming Red CLAY, some mc Gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.028	13	GW	Black cmf GRAVEL, saturated
--	6.0 - 8.0	2.0	DP	Fill	N	N	0.024	7.2	GW	Black cmf GRAVEL, saturated
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.041	59.7	GW	Black cmf GRAVEL, saturated
--	10.0 - 12.0	1.5	DP	TMD	N	N	0.032	9.4	GW	Black cmf GRAVEL, saturated

TLN-3

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
7/17/2001	646,965.2	572,381.1	6.8

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
TLN-3-0-.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.02	--	GW	Med brown cmf GRAVEL, some c Sand
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.011	--	GW	Brown cmf GRAVEL, some cmf Sand
TLN-3-2-4	2.0 - 4.0	2.0	DP	Fill	N	N	0.033	--	CL	Red CLAY, little f gravel @ 3.5 ft becoming Black f GRAVEL and c SAND.
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.018	--	GW	Black mf GRAVEL, little c sand, saturated
--	6.0 - 8.0	2.0	DP	Fill	N	N	0.016	--	GW	Black mf GRAVEL, little c sand, saturated
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.019	--	GW	Black mf GRAVEL, little c sand, saturated
--	10.0 - 12.0	1.0	DP	TMD	N	N	0.022	--	CL	Black CLAY, little organics

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
TLN-4											
8/20/2001	State Plane Coordinates (ft. NAD83): 646,947.8	572,320.3			G.S. Elev. (ft. NGVD29): 6.8						
TLN-4 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.023	0.7	GW	Gray to med brown cmf GRAVEL, some cmf Sand
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.111	0.3	GW	Gray to med brown cmf GRAVEL, some cmf Sand @ 1.5 ft becoming Black f SAND.
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.028	1.3	SW	Reddish brown mf SAND, little f gravel
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.055	0.1	SW	Lt brown cmf SAND some c Gravel @ 4.5 ft becoming mf SAND, some Clay.
--	6.0 - 8.0	2.0	DP	Fill	N	N		0.044	1.1	SC	Lt brown mf SAND, some Clay @ 7 ft becoming Black mf GRAVEL, cinders, saturated
--	8.0 - 10.0	2.0	DP	Fill	N	N		0.056	3	SC	Med brown cmf SAND, some Clay, saturated
--	10.0 - 12.0	2.0	DP	Fill	N	N		0.036	11	SW	Black mf GRAVEL and c SAND, saturated
--	12.0 - 14.0	2.0	DP	Fill	N	N		0.037	3.4	SW	Med brown cmf SAND, little f gravel
--	14.0 - 16.0	2.0	DP	Fill/TMD	N	N		0.035	6.4	SW	Med brown cmf SAND, little f gravel @ 15.8 ft becoming PEAT.
TLN-5											
8/20/2001	State Plane Coordinates (ft. NAD83): 646,943.1	572,240.9			G.S. Elev. (ft. NGVD29): 7						
TLN-5 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.004	3	SW	Med brown mf SAND, some c Gravel

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
TLN-5 .5-2	0.5 - 2.0	1.5	DP	Fill	N	N		0.004	2	SW	Med brown mf SAND, some c Gravel @ 1 ft becoming Gray cmf GRAVEL, little cmf sand
--	2.0 - 4.0	2.0	DP	Fill	N	N		0.014	0.6	CL	Med brown CLAY and f SAND, very dense @ 2.7 ft Black f GRAVEL @ 3.2 ft Red CLAY, little f sand
TLN-5-4-6	4.0 - 6.0	2.0	DP	Fill	N	N		0.11	2	CL	Red CLAY, some mf c Gravel, very dense @ 5.5 ft becoming Red CLAY, soft
--	6.0 - 8.0	1.5	DP	Fill	N	N		0.007	2	CL	Red CLAY, soft @ 7 ft becoming Black mf GRAVEL, cinders
--	8.0 - 10.0	2.0	DP	Fill	N	N		0.015	2	SW	Med brown cmf SAND , some f Gravel @ 9.5 ft becoming Black c SAND and f GRAVEL
--	10.0 - 12.0	2.0	DP	Fill	N	N		0.016	13.2	SW	Black c SAND and f GRAVEL
--	12.0 - 14.0	0.0	DP	TMD	N	N		--	--	PT/PT	Peat
--	14.0 - 16.0	0.0	DP	TMD	N	N		--	--	PT	Peat

TLN-6

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/20/2001	646,963.3	572,176.2	7.1

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
TLN-6 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.028	9	SW	Med brown cmf SAND, some c Gravel, trace organics
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.004	5.2	SW	Med brown cmf SAND, some c Gravel, trace organics @ 1 ft becoming Gray mc GRAVEL, some mc Sand.
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.003	11	GW	Gray mc GRAVEL, some mc Sand @ 2.2 ft becoming Black mc SAND, some c Gravel.
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.011	2.1	SW	Black cmf SAND, little mc gravel @ 4 ft Orange CLAY, trace f gravel @ 5.8 ft Black cmf GRAVEL, moist.
--	6.0 - 8.0	2.0	DP	Fill	N	N		0	0	GW	Black cmf GRAVEL, moist

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	8.0 - 10.0	2.0	DP	Fill	N	N	0	0	GW	Black cmf GRAVEL
--	10.0 - 12.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

TLS-1

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/5/2001	646,892.8	572,182.3	8.9

TLS-1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0	3.8	GW	Med brown c GRAVEL, some cmf Sand
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.009	4	GW	Med brown mf GRAVEL, some cmf Sand @ 1 ft becoming Reddish brown CLAY
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0	3.6	CL	Reddish brown CLAY, little f gravel
--	6.0 - 8.0	1.0	DP	Fill	N	N	0.004	2.3	GP	Black f GRAVEL and c SAND
--	8.0 - 10.0	2.0	DP	Fill	N	N	0	2.5	CL	Med brown CLAY, some mf Gravel @ 9 ft becoming Black f GRAVEL and c SAND, cinders?
--	10.0 - 12.0	2.0	DP	Fill	N	N	0.005	3.4	GP	Black f GRAVEL and c SAND, cinders?
--	12.0 - 14.0	2.0	DP	Fill	N	N	0.04	2.9	GW	Black mf GRAVEL, some c Sand, cinders?
--	14.0 - 16.0	2.0	DP	Fill/TMD	N	N	0.15	8	CL/PT	Black CLAY, dense @ 15 ft becoming PEAT.

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
TLS-10											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/21/2001		646,799.7	572,211.5			8.3					
TLS-10 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.075	1.5	GW	Med brown cmf GRAVEL, little cmf sand
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.16	1.7	SW	Med brown cmf SAND, some mf Gravel @ 1.5 ft becoming Med reddish brown CLAY, trace organics.
--	2.0 - 4.0	1.0	DP	Fill	N	N		0.018	12	CL	Med reddish brown CLAY, trace organics
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.017	2.1	CL	Red CLAY, trace mc gravel
--	6.0 - 8.0	2.0	DP	Fill	N	N		0.028	11.5	GW	Black mf GRAVEL, moist
TLS-10 8-10	8.0 - 10.0	2.0	DP	Fill	N	N		0.091	321	GW	Black mf GRAVEL, saturated
--	10.0 - 12.0	2.0	DP	Fill/TMD	N	N		0.16	175	GW/PT	Black mf GRAVEL, saturated @ 11 ft becoming PEAT.
TLS-11											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/7/2001		646,780.3	572,151.3			8.6					
TLS-11-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.003	6.7	SC	Med brown cmf SAND, little mf gravel, little clay
--	0.5 - 2.0	1.5	DP	Fill	N	N		0	20.6	SC	Med brown cmf SAND, little mf gravel, little clay @ 1 ft becoming CLAY, little cmf sand, little f gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	4.0 - 6.0	0.3	DP	Fill	N	N	0	7	GW	Med brown mc GRAVEL, saturated
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	0.5	DP	Fill	N	N	0	8	SW	Med brown cmf SAND, some f Gravel, saturated
--	10.0 - 12.0	0.0	DP	Fill	--	--	--	--		NR

TLS-2

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
9/7/2001	646,895.3	572,219.2	7.8

TLS-2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.061	7	SW	Dk brown cmf SAND, some mc Gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.026	8	SW	Dk brown cmf SAND, some mc Gravel @ 1 ft becoming Reddish to dk brown CLAY, some cmf Sand, little cmf gravel
--	2.0 - 4.0	1.5	DP	Fill	N	N	0.023	5.6	CL	Reddish to dk brown CLAY, some cmf Sand, little f gravel
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.024	4.2	GW	Black mf GRAVEL, cinders, moist
TLS-2-6-8	6.0 - 8.0	1.5	DP	Fill	N	N	0.028	5.9	GW	Black mf GRAVEL, cinders, moist
--	8.0 - 10.0	2.0	DP	Fill	N	N	0.013	12.3	GW	Black f GRAVEL, cinders, saturated
--	10.0 - 12.0	0.5	DP	Fill/TMD?	N	N	0.007	12	GM/PT	Black f GRAVEL, cinders, saturated @ 11ft? becoming PEAT.
--	12.0 - 14.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR
--	14.0 - 16.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
TLS-3											
8/21/2001	State Plane Coordinates (ft. NAD83): 646,907.7	572,440.8			G.S. Elev. (ft. NGVD29): 7.5						
TLS-3 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.024	1.7	GW	Med brown mc GRAVEL, trace mc sand
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.071	25	GW	Med brown cmf GRAVEL, some mc Sand @ 1.8 ft becoming cmf SAND.
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.058	1.7	GW	Black mf GRAVEL and c SAND, moist
--	6.0 - 8.0	2.0	DP	Fill	N	N		0.112	2.6	GW	Black mf GRAVEL and c SAND, moist
--	8.0 - 10.0	2.0	DP	Fill	N	N		0.142	11.2	GW	Black mf GRAVEL and c SAND, moist
--	10.0 - 12.0	1.0	DP	TMD	N	N		--	--	PT	Peat
TLS-4											
9/7/2001	State Plane Coordinates (ft. NAD83): 646,867.4	572,412.7			G.S. Elev. (ft. NGVD29): 7.9						
TLS-4-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0	10	SW	Med brown cmf SAND and mf GRAVEL
--	0.5 - 2.0	1.5	DP	Fill	N	N		0	0	SW	Med brown cmf SAND and mf GRAVEL
--	2.0 - 4.0	1.0	DP	Fill	N	N		0	0	GW	Black c GRAVEL, little cmf sand

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	4.0 - 6.0	2.0	DP	Fill	N	N		0	2	CL	Red CLAY, some Organics, some mc Sand @ 4.5 ft becoming Black mf GRAVEL, saturated
--	6.0 - 8.0	1.0	DP	Fill	N	N		0	9	GW	Black mf GRAVEL, saturated
TLS-4-8-10	8.0 - 10.0	2.0	DP	Fill	N	N		0	16	GW	Black mf GRAVEL, saturated
--	10.0 - 12.0	0.4	DP	TMD	N	N		--	--	PT	Peat

TLS-5

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/21/2001	646,787.4	572,403.4	8.2

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
TLS-5 0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.267	1.3	GW	Med brown cmf GRAVEL, some cmf Sand
--	0.5 - 2.0	1.5	DP	Fill	N	N		>0.999	1.3	CL	Red brown CLAY, some cmf Gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N		0.009	0.2	GW	mf GRAVEL, some cmf SAND, trace silt @ 4.5 ft red-brn CLAY @ 5.5 ft cmf SAND and f GRAVEL, sat.
--	6.0 - 8.0	1.2	DP	Fill	N	N		0.03	0	SW	Black cmf SAND and f GRAVEL, saturated
TLS-5-8-10	8.0 - 10.0	2.0	DP	Fill	N	N		0.017	1	GW	Black cmf GRAVEL, some cmf Sand
--	10.0 - 12.0	1.2	DP	Fill/TMD	N	N		--	--	SW/PT	Black cmf SAND and f GRAVEL, saturated, @ 10.2 ft becoming PEAT.

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
TLS-6											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/21/2001		646,780.6	572,365.0			8.2					
TLS-6 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.007	0.4	GW	Med brown c GRAVEL and cmf SAND
--	0.5 - 2.0	0.0	DP	Fill	--	--		--	--		NR
--	2.0 - 3.0	0.0	DP	Fill	--	--		--	--		NR
TLS-6-3-5	3.0 - 5.0	2.0	DP	Fill	N	N		0.008	10.4	SC	Black cmf SAND and CLAY, some f Gravel
--	5.0 - 7.0	0.0	DP	Fill	--	--		--	--		Refusal @ 7 ft, NR.
TLS-7											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/21/2001		646,832.8	572,358.9			7.9					
TLS-7 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.037	0	GW	Med brown cmf GRAVEL, some mc Sand
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.714	0.4	GW	Med brown cmf GRAVEL, some mc Sand @ 1 ft becoming Reddish brown CLAY and mf SAND, little c gravel
--	2.0 - 4.0	0.0	DP	Fill	--	--		--	--		NR
TLS-8											
	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
9/7/2001		646,827.7	572,279.6			7.9					

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
TLS-8-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.003	6.2	SC	Dk brown cmf SAND, some c Gravel, little clay
--	0.5 - 2.0	0.5	DP	Fill	N	N	0	5	SC	Dk brown cmf SAND, some c Gravel, little clay
--	2.0 - 4.0	0.0	DP	Fill	--	--	--	--		NR
--	4.0 - 6.0	2.0	DP	Fill	N	N	0	13	CL	Med brown CLAY, little mf gravel, saturated
TLS-8-6-8	6.0 - 8.0	0.8	DP	Fill	N	N	0.004	8.2	GP	Black f GRAVEL
--	8.0 - 10.0	2.0	DP	Fill	N	N	0	10	GP	Black f GRAVEL
--	10.0 - 12.0	0.0	DP	Fill	--	--	--	--		NR
--	12.0 - 14.0	1.5	DP	Fill/TMD?	N	N	0	5	CL/PT	Med brown CLAY, little f gravel, saturated @ 13.5 ft probably PEAT - very soft.
--	14.0 - 16.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

TLS-9

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/21/2001	646,786.0	572,271.9	8.1

TLS-9 0-.5	0.0 - 0.5	0.5	DP	Fill	N	N	0.05	1.9	GW	Dk brown cmf GRAVEL, some c Sand
--	0.5 - 2.0	1.5	DP	Fill	N	N	0.053	1.9	GW	Dk brown cmf GRAVEL, some c Sand @ 1 ft becoming Black f GRAVEL and c SAND
--	2.0 - 4.0	0.5	DP	Fill	N	N	0.018	0	CL	Orange CLAY, little f gravel
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.02	16.1	CL	Reddish brown CLAY, some c Sand @ 5.8 ft becoming Black mc SAND and f GRAVEL, moist.

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	6.0 - 8.0	1.0	DP	Fill	N	N	0.022	4	SW	Black mc SAND and f GRAVEL, moist
--	8.0 - 10.0	2.0	DP	Fill/TMD	N	N	0.043	43.2	SW/PT	Black cmf SAND and f GRAVEL, saturated, @ 9.2 ft becoming PEAT.
--	10.0 - 12.0	0.5	DP	TMD	N	N	--	--	PT	Peat

WWT-1

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/23/2001	646,780.0	572,044.8	9.1

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
--	0.0 - 0.5	0.5	DP	Fill	N	N	>0.999	1.6	CL	Red CLAY, some mc Gravel, trace organics
--	0.5 - 2.0	1.5	DP	Fill	N	N	>0.999	1.6	SC	Med Brown cmf SAND, some mc Gravel, little red clay
--	2.0 - 4.0	1.5	DP	Fill	N	N	>0.999	5	SW	Med brown cmf SAND, some mc Gravel, dry to moist
--	4.0 - 6.0	2.0	DP	Fill	N	N	>0.999	1.8	GW	Med brown cmf GRAVEL, some f Sand, little silt
--	6.0 - 8.0	0.0	DP	Fill	--	--	--	--		NR
--	8.0 - 10.0	2.0	DP	Fill	N	N	>0.999	19	ML	Brown SILT, some mc Gravel, little cmf sand, saturated.
--	10.0 - 12.0	1.5	DP	Fill	N	Y	>0.999	133	ML	Brown SILT, some mc Gravel, little cmf sand @ 10.5 ft cmf SAND trace silt @ 11.2 ft Black mc SAND, sat.
WWT-1-12-14	12.0 - 14.0	1.0	DP	Fill	N	N	>0.999	194	GW	Med brown cmf GRAVEL, some mc Sand, little silt, saturated
--	14.0 - 16.0	0.0	DP	Fill?	--	--	--	--		NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
WWT-1A	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
7/19/2001	646,780.0	572,044.8			--						
WWT-1-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		0.62	5.1	SM	Red brown mf SAND, little silt, little cmf gravel
--	0.5 - 2.0	1.5	DP	Fill	N	N		0.68	4.2	SM	Red brown mf SAND, little silt, little cmf gravel @ 1 ft cement @ 1.3 ft becoming Black mc GRAVEL, some Silt & Clay
--	2.0 - 4.0	1.0	DP	Fill	N	N		>0.999	12.2	SM	Red brown mf SAND, some Silt, little mc gravel
--	4.0 - 6.0	2.0	DP	Fill	N	N		>0.999	--	GW	Brown to black cmf GRAVEL, some Silt
--	6.0 - 8.0	0.0	DP	Fill	--	--		--	--		NR
--	8.0 - 10.0	2.0	DP	Fill	N	N		>0.999	--	ML	Med brown SILT and c GRAVEL, saturated
--	10.0 - 12.0	1.5	DP	Fill	Y	N		>0.999	--	GW	Gray mc GRAVEL, some cmf Sand, saturated @ 11 ft becoming Black c SAND size particles, lustrous.
WWT-2	State Plane Coordinates (ft. NAD83)				G.S. Elev. (ft. NGVD29)						
8/23/2001	646,718.5	572,046.7			9.3						
WWT-2-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N		>0.999	1.4	GC	Med brown mc GRAVEL, some mc Sand, little clay
--	0.5 - 2.0	1.5	DP	Fill	N	N		>0.999	1	GC	Med brown mc GRAVEL, some mc Sand, little clay
--	2.0 - 4.0	1.0	DP	Fill	N	N		>0.999	4	GC	Med brown mc GRAVEL, some mc Sand, little clay

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
--	4.0 - 6.0	2.0	DP	Fill	N	N	>0.999	3.3		GC	mc GRAVEL, some mc Sand, little clay @ 4.7 ft become concrete @ 5.5 ft become mc GRAVEL, little cmf sand, moist
--	6.0 - 8.0	1.5	DP	Fill	N	N	>0.999	19		ML	SILT & CLAY @ 7.5 ft becoming Dk brown c GRAVEL and SILT, saturated
--	8.0 - 10.0	2.0	DP	Fill	N	N	>0.999	10.8		ML	Dk brown Clayey SILT, saturated
--	10.0 - 12.0	2.0	DP	Fill	N	N	>0.999	154		GW	c GRAVEL, little silt, @ 11.5 ft becoming Black mc SAND, some cmf Gravel
WWT-2-12-14	12.0 - 14.0	2.0	DP	Fill	N	N	>0.999	178		GM	Black c GRAVEL, some Silt @ 13 ft Dk brown mf SAND @ 13.9 ft Red CLAY, little mf gravel, saturated
--	14.0 - 16.0	0.0	DP	Fill?	--	--	--	--			NR

WWT-3

	State Plane Coordinates (ft. NAD83)		G.S. Elev. (ft. NGVD29)
8/23/2001	646,638.6	572,035.4	9.1

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids	Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
WWT-3-0-0.5	0.0 - 0.5	0.5	DP	Fill	N	N	>0.999	3		GC	Dk brown mc GRAVEL and mc SAND, little clay
--	0.5 - 2.0	1.5	DP	Fill	N	N	>0.999	7		GC	Dk brown mc GRAVEL and mc SAND, little clay
--	2.0 - 4.0	1.0	DP	Fill	N	N	0.358	1.6		GC	Dk brown mc GRAVEL and mc SAND, little clay
--	4.0 - 6.0	2.0	DP	Fill	N	N	0.317	15		GW	Dk brown mf GRAVEL and cmf SAND, moist
--	6.0 - 8.0	2.0	DP	Fill	N	N	0.468	110		CL	Orange CLAY, some mf Sand, trace m gravel
--	8.0 - 10.0	1.0	DP	Fill	N	N	0.618	121		CL	Orange CLAY, some mf Sand, trace m gravel
--	10.0 - 12.0	0.0	DP	Fill	--	--	--	--			NR

Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6")	Unit	Free Liquids Mercury	Free Liquids Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Soil Description Burmister
WWT-3-12-14	12.0 - 14.0	1.0	DP	Fill/TMD	N	N	0.243	--	GW/PT	Dk brown mc GRAVEL, some cmf Sand, trace silt @ 12.5 ft becoming PEAT.
--	14.0 - 16.0	0.0	DP	TMD?	--	--	--	--	PT	Peat?, NR

Abbreviations:

Blows: DP - Direct Push drilling method, blow counts are not applicable, WOH - weight of hammer, WOR - weight of rods
Unit: TMD - tidal marsh deposits, GF - glacial fluvial, GT - glacial till, BR - bedrock, DC Sed - drainage channel sediment, SBC Sed - South Branch Creek sedimen
Soil Description: NR - indicates no recovery of soil sample, no soil description provided.

Phase II Surficial Borings
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

230-B101

	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006										
Lab Sample ID	Depth (ft)	Recovery (ft)	Blows (per 6 ")	Unit	Free Liquids Mercury	Organics	MVA (mg/m3)	OVA (ppm)	Soil Description USCS	Burmister
230-B101-0-1	1	1	NA	FILL	N	N	NR	NR	ML CL	Wet, Gray brwn SILT & CLAY, some (+) organics, little (+) cmf gravel

231-102

	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006										
231-102-0-1	1	1	NA	FILL	N	N	NR	NR	ML CL	Dry, Brwn red SILT & CLAY, some (-) cmf Sand, trace (+) fmc gravel

DEP-101

	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006	646396.8		572002.8		8.2					
DEP-101-0-1	1	1	NA	FILL	N	N	NR	NR	SP	Dry, Blk gray cmf SAND, little (-) fm gravel

LHP-110

	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006	646916.5		571545.6		7.6					
LHP-110-0-1	1	1	NA	FILL	N	N	0	0	SP	Dry, Brwn blk cmf SAND, little (+) Silt & Clay, trace (+) fmc gravel

Phase II Surficial Borings
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

LHP-111

	State Plane Coordinates (ft. NAD83)		G.S. Elev (ft. NGVD29)
12/4/2006	646951.3	571644.6	8

LHP-111-0-1	1	1	NA	FILL	N	N	0	0	SP SM	Dry, cmf SAND, some (-) Silt & Clay, little (-) fmc gravel. Glass fragments

LHP-112

	State Plane Coordinates (ft. NAD83)		G.S. Elev (ft. NGVD29)
12/4/2006	646896.9	571632.8	7.7

LHP-112-0-1	1	1	NA	FILL	N	N	0	0.3	SP GP	Dry Blk cmf SAND, little (+/-) fmc gravel. @ 0.2' Red brwn SILT & CLAY, some (-) cmf Sand, little (-) Organics. Glass fragments

LHP-113

	State Plane Coordinates (ft. NAD83)		G.S. Elev (ft. NGVD29)
12/4/2006	646932.3	571767.9	8.3

LHP-113-0-1	1	1	NA	FILL	N	N	0	0	SP SM	Dry, Gray brwn cmf SAND, little (+) silt & clay, trace (+) fmc gravel. Glass fragments

LHP-114

	State Plane Coordinates (ft. NAD83)		G.S. Elev (ft. NGVD29)
12/4/2006	646822.9	571751.2	8.2

LhP-114-0-1	1	1	NA	FILL	N	N	0	0.4	SP GP	Dry, Gray brwn cmf SAND, some (-) fmc Gravel, little (+) silt & clay. Glass fragments

Phase II Surficial Borings
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

LHP-115										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006	646885.8		571816.3		8.2					
LHP-115-0-1	1	1	NA	FILL	N	N	0	0	SP GP	Dry Gray cmf SAND, little (+) Gravel, trace (+) silt & clay. Glass fragments
LHP-116										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006	646767.8		571837.7		7.8					
LHP-116-0-1	1	1	NA	FILL	N	N	0.015	0	ML CL	Dry Clayey SILT, some (-) cmf Sand, little (-) fmc Gravel. Glass fragments
LHP-117										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006	646751.5		571928.6		8					
LHP-117-0-1	1	1	NA	FILL	N	N	0	0	ML CL	Dry-moist, Red brwn Clayey SILT, some (-) cmf Sand, little (-) fm gravel.
LHP-118										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006	646863.4		571475		7.5					
LHP-118-0-1	1	1	NA	FILL	N	N	0	0	SM SC	Dry, cmf SAND, some (-) Silt & Clay, little (-) fmc gravel. Glass, cinders fragments.

Phase II Surficial Borings
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

LHP-119										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006	646765.8		571520.7		8.4					
LHP-119-0-1	1	1	NA	FILL	N	N	0	0	SP SM	Moist, Brwn blk cmf SAND, some (-) Silt & Clay, little (-) fmc gravel. Brick, glass fragments.
LHP-120										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006	646709.6		571474.7		8.1					
LHP-120-0-1	1	1	NA		N	N	0	0.1	SP	Moist, Black brwn cmf SAND, some (-) Silt & Clay, little (-) fm gravel. Brick fragments
LHP-121										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/6/2006	646671.7		571572.3		8.5					
LHP-121-0-1	1	1	NA		N	N	NR	NR	SP	Moist, cmf SAND, little (-) Silt & Clay, trace (+) fmc gravel
LHP-122										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/6/2006	646633.2		571702.8		8.8					
LHP-122-0-1	1	1	NA	FILL	N	N	NR	NR	SP	Blk gray cmf SAND, little (+) fm gravel.

Phase II Surficial Borings
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

LHP-123										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/6/2006	646537.1		571844.5		8.4					
LHP-123-0-1	1	1	NA	FILL	N	N	NR	NR	SP SM	Dry, Blk gray, red brwn, cmf SAND, some (+) Silt & Clay, little (-) gravel.
TES-2										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006	646312.8		572438		7.4					
TES-2-0-1	1	1	NA	FILL	N	N	NR	NR	ML CL	Wet Blk gray Clayey SILT, some (+) organics, little (+) cmf gravel.
TES-3										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/4/2006					9					
TES-3-0-1	1	1	NA	FILL	N	N	NR	NR	ML CL	Dry, Brwn SILT & CLAY, little (+/-) cmf Sand, trace (+) fmc gravel
TES-4										
	State Plane Coordinates (ft. NAD83)				G.S. Elev (ft. NGVD29)					
12/5/2006	646749		571723.9							
TES-4-0-1	1	1	NA	FILL	N	N	NR	NR	SP	Dry, cmf SAND, trace (+) gravel.

Appendix C-2: Previous Investigations

SYOSSET, NEW YORK 11791

WELL LOG

PROJECT N 418 LD-1
CLIENT LCP Chemicals Inc.
DATE PREPARED 10-8-81 BY J. DeMartin

DEPTH, ft		DESCRIPTION	L.S.
0		EXISTING GRADE EL. 7.7 Ft.	
#1.1	S.S.	Fill, Heterogeneous: slag, cinders and bricks	A
#1.2	S.S.	Clay, Black-Gray, Organic, Moist to Dry V. Cohesive; Wet From G.S. To 8 Ft.	B
10			
#1.3	S.S.	Peat, Brown (Layers 2 to 6 in. Thick) Organic Matter Disseminated Througnout; Strong H2S Ordor.	B
#1.4	S.S.	Silty, Red-Brown, Tight, Clayey, Dry; with Fine Sand and Embedded Pebble Gravel	D
20			
#1.5	S.S.	Clay, Red-Brown, Tight, Dry With Fine Sand and Embedded Gravel	D
#1.6	S.S.	Clay, Red-Brown with Embedded Pebbles; Tight.	D
30			
#1.7	S.S.	Clay, Red-Brown, Moist; Less Pebbly Than Above.	D
#1.8	S.S.	Clay, Silty, Red-Brown, Dry With Abundant Pebbles And Cobble, Gravel.	D
40			
#1.9	S.S.	Silty, Clayey, Dry, Red-Brown; Cobbles And Gravel.	D
		Bedrock @ 42.3 Ft. Boring Stopped	

L.S.=Land Surface
# - S.S.=Split Spoon Core Sample Number

OWNER LCP Chemicals Inc.
WELL NO. 1 State # 26-5293
LOCATION Lagoon Area
Linden, N.J. Plant
TOPO SETTING Filled Coastal Marsh
GROUND ELEV. 9.7 Ft.

DRILLING STARTED 9-29-81
DRILLING COMPLETED 9-29-81
DRILLER H. P. Drilling
TYPE OF RIG Drive Boring

WELL DATA

HOLE DIAM. 2 1/2 inch.
FINAL DEPTH 38.5 Ft.
CASING DIAM. 1 1/2 inch.
CASING LENGTH 20 Ft. (1.5 Ft. Above L
SCREEN DIAM. 1 1/2 inch.
SCREEN SETTING 18.5-38.5 Ft.
SCREEN SLOT & TYPE 20 Slot PVC
WELL STATUS Monitoring

DEVELOPMENT

TEST DATA

STATIC DEPTH TO WATER	4.78 Ft.	4.01 Ft.
DATE MEASURED	10-6-81	10-15-81
	Low Tide	High Tid

Measuring Point Top of PVC Pipe
Meas. Point Elevation 9.01 Ft.

DATE OF TEST
TYPE OF TEST
PUMP SETTING
SPECIFIC CAPACITY

FINAL PUMP CAPACITY
FINAL PUMP SETTING
AVERAGE PUMPAGE

WATER QUALITY

See Appendix

LITHOLOGY REMARKS SEE TABLE 1
A= Miscellaneous Fill Deposits
B= Dark Gray Organic Clay
C= Well Sorted Sands Etc.
D= Silts, Clays Etc. (Glacial Till)

94 of 390

R2-0003869

SYOSSET, NEW YORK 11791

WELL LOG

PROJECT N 418 LD-1
CLIENT LCP Chemicals Inc.
DATE PREPARED 10-6-81 BY J. DeMartin

DEPTH, ft		DESCRIPTION (EXISTING GRADE EL. 8.5 Ft.)	L.S.
0			
#2.1	S.S.	Fill, Loose Brown Silt and Sand; Abundant Organic Matter	A
#2.2	S.S.	Clay, Silty, Gray; Moist to Dry Organic Matter Disseminated Throughout. Strong H2S. Smell	B
10 #2.3	S.S.	Clay, Silty, Gray, Dry with Strong H2S smell; 0.5 Ft. Layer of Brown Peat	B
#2.4	S.S.	Clay, Silty, Red-Brown, Dry with Fine Sand and Gravel Pockets; Basalt Clasts. Green Staining; Reducing Conditions	D
20 #2.5	S.S.	Clay, Silty, Dry, Red-Brown, Tight with Metamorphic and Ignegous rock fragments.	D
#2.6	S.S.	Clay, Red-Brown, Dry with Sparse Gravel	D
30 #2.7	S.S.	Clay, Red-Brown, Dry, Soft	D
#2.8	S.S.	Clay, Red-Brown, Dry with Embedded Gravel	D
40 #2.9	S.S.	Clay, Red-Brown, Dry with Abundant Gravel; Granite Fragments	D
		Bedrock @ 43 Ft. Boring Stopped	

L. S.=Land Surface
-S. S. = Split Spoon Core Sample Number

OWNER LCP Chemicals Inc.
WELL NO. 2 State # 26-5294
LOCATION Lagoon Area
Linden, N.J. Plant
TOPO SETTING Filled Coastal Marsh
GROUND ELEV. 8.5 Ft.

DRILLING STARTED 9-30-81
DRILLING COMPLETED 10-1-81
DRILLER H.P. Drilling
TYPE OF RIG Drive Boring

WELL DATA

HOLE DIAM. 2 1/2 inch
FINAL DEPTH 28 Ft
CASING DIAM. 1 1/2 inch
CASING LENGTH 20 Ft. (2Ft. Above L.S.)
SCREEN DIAM. 1 1/2 inch
SCREEN SETTING 18-28 Ft.
SCREEN SLOT & TYPE 20 Slot PVC
WELL STATUS Monitoring

DEVELOPMENT

TEST DATA

STATIC DEPTH TO WATER 5.29 Ft. 3.68 Ft
DATE MEASURED 10-6-81 10-15-81
Measuring Point Top of PVC Pipe
Measuring Point Elevation 8.25 Ft.

DATE OF TEST
TYPE OF TEST
PUMP SETTING
SPECIFIC CAPACITY

FINAL PUMP CAPACITY
FINAL PUMP SETTING
AVERAGE PUMPAGE

WATER QUALITY

See Appendix

LITHOLOGY REMARKS SEE TABLE 1
A=Miscellaneous Fill Deposits
B=Dark Gray Organic Clay
C=Well sorted Sands Etc.
D=Silts, Clays Etc. (Glacial Till)

35 of 390

R2-0003870

5800 JERICHO TURNPIKE
SYOSSET, NEW YORK 11791

WELL LOG

PROJECT N 418 LD-1
CLIENT LCP Chemical Inc
DATE PREPARED 10-9-81 BY J. DeMartin

DEPTH, ft		DESCRIPTION	L.S.
		EXISTING GRADE EL. 12.1 Ft.	
0 #3.1	S.S.	Fill: Gravel and silt, Brown to Black: Slag and Traprock	A
#3.2	S.S.	Fill: Medium Sand and Gravel: Yellow to Gray: Clean	A
		Clay, Gray-Black, Orange, Dry H2S Odor	B
10 #3.3	S.S.	Clay, Gray, Black, Dry, Organic (Plant Material): Thin (1-2 inch) Layers of Brown Peat	B
#3.4	S.S.	As Above W/6 inch Peat Layer Base	B
20 #3.5	S.S.	Sand, Fine to Medium, Gray, Wet Grading into Silty sands, Clays with Layers of Gray Organic Clay and Brown Peat and Red-Brown, Sandy Silt.	B-C
#3.6	S.S.	Sand, Fine to Medium, Red-Brown, Well Sorted with Poorly Sorted Gravelly Layers 2-6 inches Thick	C
30 #3.7	S.S.	Clay, Silty, Dry, Cohesive	D
#3.8	S.S.	Clay, Stiff, Dry with Embedded Pebbles	D
40 #3.9	S.S.	Dry Pebbles in Tight Clay Matrix	D
#3.10	S.S.	Clay, Dry, Silty with Pebbles	D
		Bedrock @ 47.5 Ft. Boring Stopped	

L. S. = Land Surface
- S. S. = Split Spoon Core Sample Number

OWNER LCP Chemicals Inc.
WELL NO. 3 State # 26-5295
LOCATION Lagoon Area Linden, N.J. Plant
TOPO SETTING Filled Coastal Marsh
GROUND ELEV. 12.1 Ft.

DRILLING STARTED 10-1-81
DRILLING COMPLETED 10-1-81
DRILLER H.P. Drilling
TYPE OF RIG Drive Boring

WELL DATA

HOLE DIAM. 2 1/2 inch
FINAL DEPTH 30 Feet
CASING DIAM. 1 1/2 inch
CASING LENGTH 17 Ft. (2Ft. Above L.S.)
SCREEN DIAM. 1 1/2 inch
SCREEN SETTING 15-30 Ft.
SCREEN SLOT & TYPE 20 Slot PVC
WELL STATUS Monitoring

DEVELOPMENT

TEST DATA

STATIC DEPTH TO WATER 7.83 Ft. 7.72 Ft.
DATE MEASURED 10-6-81 10-15-81
PUMPING DEPTH TO WATER Low Tide High Tide
Measuring Point Top of PVC Pipe
Measuring Point Elevation 13.85 Ft.
DATE OF TEST
TYPE OF TEST
PUMP SETTING
SPECIFIC CAPACITY

FINAL PUMP CAPACITY
FINAL PUMP SETTING
AVERAGE PUMPAGE

WATER QUALITY

See Appendix

LITHOLOGY REMARKS SEE TABLE 1
A= Miscellaneous Fill Deposits
B= Dark Gray Organic Clay
C= Well sorted sands Etc.
D= Silts, Clays Etc. (Glacial Till)

36 of 390

R2-0003871

SYOSSET, NEW YORK 11791

WELL LOG

PROJECT N 418 LD-1
CLIENT ICP Chemicals Inc.
DATE PREPARED 10-9-81 BY J. DeMarrais

DEPTH, ft		DESCRIPTION	L.S.
		EXISTING GRADE EL. 10.3 Ft.	
0 #4.1	S.S.	Fill, Redish Brown; sand and Gravel	A
#4.2	S.S.	Fill, Heterogengeous, Brown, wet At Base	A
10 #4.3	S.S.	Much, wet, organic changing to dry organic clay with thin layers of brown Peat and Reeds; H2S Smell	A
#4.4	S.S.		
20 #4.5	S.S.	Sand, Fine, Green, wet, Well Sorted Feldspathic wiht Organic materials present; H2S odor grades to Coarser; Brown at Bottom	C
#4.6	S.S.	Clay, Red-Brown, Dry with Embedded pebbles	D
30 #4.7	S.S.		
#4.8	S.S.	Clay, Red-Brown, Dry with Abundant Cobbles	D
40 #4.9	S.S.	Clay, Red-Brown, Dry and Pebbles in clay matrix in alternating layers	D
#4.10	S.S.	Clay, Dense, Dry with Siltstone Clasts	D
		Bedrock @ 48.5 Ft. Boring Stopped	

L.S. = Land Surface

-S.S.= Split Spoon Core Sample Number

OWNER ICP Chemical Inc.
WELL NO. 4 State # 25-5296
LOCATION Lagoon Area
Linden, N.J. Plant
TOPO SETTING Filled Coastal Marsh
GROUND ELEV. 10.3 Ft.

DRILLING STARTED 10-1-81
DRILLING COMPLETED 10-1-81
DRILLER H. P. Drilling
TYPE OF RIG Auger

WELL DATA

HOLE DIAM. 8 inch.
FINAL DEPTH 38 Feet
CASING DIAM. 1 1/2 inch
CASING LENGTH 20 Feet (2' above L.S.)
SCREEN DIAM. 1 1/2 inch
SCREEN SETTING 18-38 Feet
SCREEN SLOT & TYPE 20 Slot PVC
WELL STATUS Monitoring

DEVELOPMENT

TEST DATA

STATIC DEPTH TO WATER 6.64 Ft 6.30 F
DATE MEASURED 10-6-81 10-15-81
Low Tide High Tid
Measuring Point Top of PVC pipe
Measuring Point Elevation 12.31 Ft.
DATE OF TEST
TYPE OF TEST
PUMP SETTING
SPECIFIC CAPACITY

FINAL PUMP CAPACITY
FINAL PUMP SETTING
AVERAGE PUMPAGE

WATER QUALITY

See Appendix

REMARKS

A= Miscellaneous Fill Deposits
B= Dark Gray Organic Clay
C= Well Sorted Sands Etc.
D= Silts, Clays Etc. (Glacial Till)

37 of 390

R2-0003872

SYOSSET, NEW YORK 11791

WELL LOG

PROJECT N 418 LD-1
CLIENT LCP Chemical Inc.
DATE PREPARED 10-9-81 BY J. DeMartir

DEPTH, ft		DESCRIPTION (EXISTING GRADE EL. 12.5 Ft)	S.
♦5.1	S.S.	Fill: Bricks on top 1 ft. with clean brown sand and abundant traprock cobbles below	A
♦5.2	S.S.	Fill: Loose, brown, silty sand with cobbles grading to loose gravish-brown silt and sand; wet at 11.8 Ft.	A
10 ♦5.3	S.S.		
♦5.4	S.S.	Sand, Silty, organic; dark gravish-brown with Holusck shells; moist	B-C
20 ♦5.5	S.S.	Sand, gravish-Brown, moist with organic matter	C
♦5.6	S.S.	Clay, moist, organic and dry, red-brown silty clay with pebbles	B
30 ♦5.7	S.S.	Sand, silty, gray, organic, moist alternating with poorly sorted, red, wet, gravelly sands	C
♦5.8	S.S.	Clay, red-brown, dry, stiff	D
40 ♦5.9	S.S.	Red-Brown, pebbles gravel in clay matrix grading to a dry cobble and pebbles gravel	D
♦5.10	S.S.	Bedrock @ 45 Ft. Boring Stopped	

OWNER LCP Chemical Inc.
WELL NO. 5 State #26-5297
LOCATION Lagoon Area Linden, N.J. Plant
TOPO SETTING Filled Coastal Marsh
GROUND ELEV. 12.5 Ft.

DRILLING STARTED 10-2-81
DRILLING COMPLETED 10-2-81
DRILLER H. P. Drilling
TYPE OF RIG Auger

WELL DATA

HOLE DIAM. 8 Inch
FINAL DEPTH 38 Feet
CASING DIAM. 1 1/2 inch
CASING LENGTH 8 Feet
SCREEN DIAM. 1 1/2 inch
SCREEN SETTING 8-38 Ft.
SCREEN SLOT & TYPE 20 Slot PVC
WELL STATUS Monitoring

DEVELOPMENT

TEST DATA

STATIC DEPTH TO WATER 5.99 Ft. 6.99 Ft
DATE MEASURED 10-6-81 10-15-81
Low Tide High Tide
Measuring Point Top of PVC Pipe
Measuring Point Elevation 12.49 Ft.
DATE OF TEST
TYPE OF TEST
PUMP SETTING
SPECIFIC CAPACITY

FINAL PUMP CAPACITY
FINAL PUMP SETTING
AVERAGE PUMPAGE

WATER QUALITY

REMARKS

A= Miscellaneous Fill Deposits
B= Dark Gray Organic Clay
C= Well Sorted Sands Etc.
D= Silts, Clays Etc. (Glacial Till)

BORING REPOR

eder associates, consulting engineers p. c.
85 FOREST AVENUE LOCUST VALLEY, N.Y. 11560
2317 INTERNATIONAL LANE MADISON, WI. 53704

SHEET 1 OF 1

DATE STARTED :	DATE FINISHED :	BORING No. MW6
CLIENT :		PROJECT No : 625-
PROJECT NAME & LOCATION :		
REMARKS:		

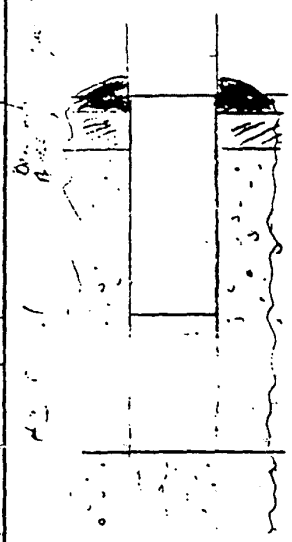
DRILLING CONTRACTOR :	DRILLER :	DRILLER :

EQUIPMENT :	CASING :	SOIL SAMPLER :		CORE BARREL	AUGER	MON. WELL (MW)		DRILL RIG AND METHOD
		SPLIT SPOON				PIPE	CAP	
TYPE :						P.		
SIZE :								
HAMMER WT / FALL				BIT				

SURFACE ELEVATION :

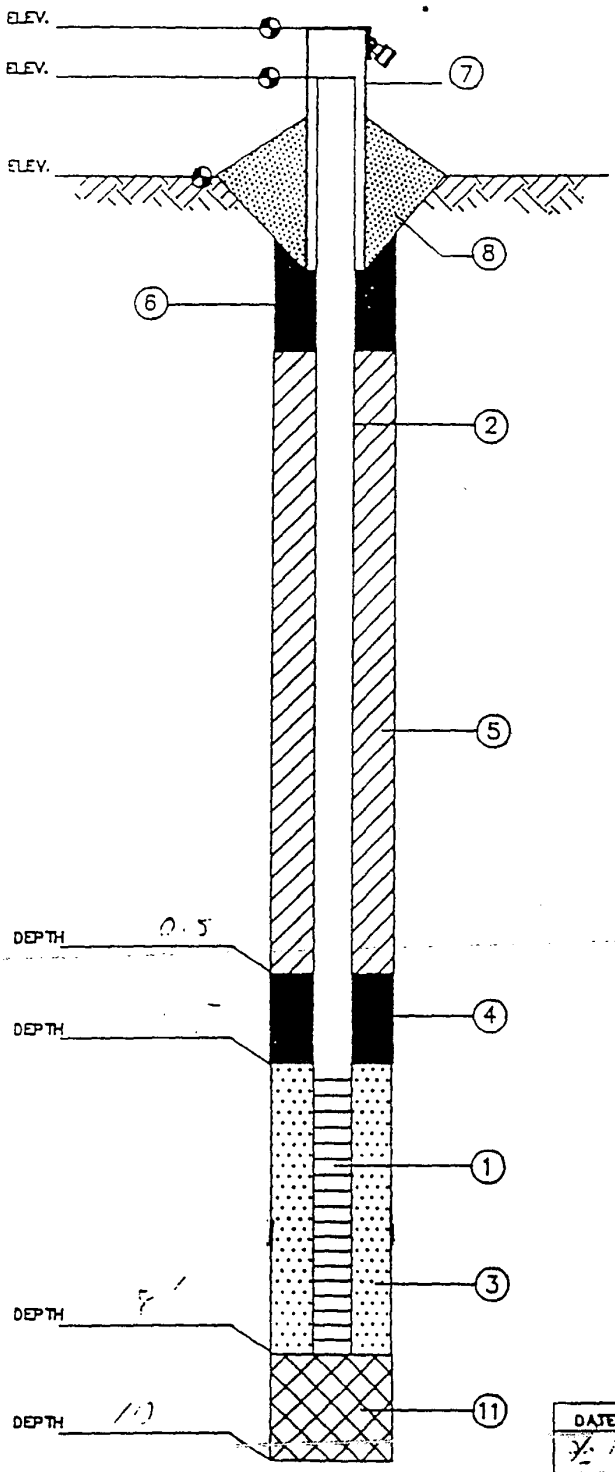
SURFACE CONDITIONS :

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE = 0–10% LITTLE = 10–20% SOME = 20–30% AND = 35–50%	MONITORING WELL CONSTRUCTION
					0	FILL, BN/GN, M-C SAND, COARSE PEBBLES, BRICK, CINDERS.	
5					5	C-PEBBLES W/SAND + SILT	
					6	ORGANIC MATL. (PEAT) W/BN/GN CLAY. STRONG SOLVENT-LIKE + H_2S ODOR.	
					10	EOB	

29 of 390

ALL DEPTHS MEASURED
FROM GROUND SURFACE



eder associates consulting engineers

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 5- CLIENT

LOCATION

DATE WELL No. 6

HYDROGEOLOGIST

DRILLING CONTRACTOR

1.) SCREEN TYPE

SLOTTED LENGTH

SLOT SIZE 10

2.) SOLID PIPE TYPE

SOLID PIPE LENGTH

PIPE & SCREEN DIA. 4

JOINT TYPE – SLIP/GLUED ____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN

4.) TYPE OF LOWER SEAL (IF INSTALLED)

5.) TYPE OF BACKFILL —

HOW INSTALLED —

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

7.) PROTECTIVE CASING – YES ✓ NO ____

LOCKING CAP YES ____ NO ____

8.) CONCRETE SEAL – YES ✓ NO ____

9.) DRILLING METHOD

10.) ADDITIVES USED (IF ANY) —

11.) TYPE OF BACKFILL —

WATER LEVEL CHECKS *

DATE	TIME	DEPTH TO WATER	REMARKS
		7- .541	

* FROM TOP OF WELL CASING : PVC

40 of 390

R2-0003875

BORING REPORT

eder associates, consulting engineers p. c.
65 FOREST AVENUE LOCUST VALLEY, N.Y. 11560
2317 INTERNATIONAL LANE MADISON, WI. 53704

SHEET 1 OF 1

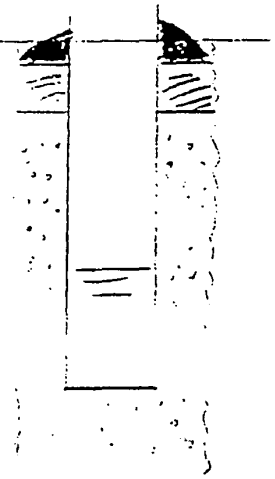
DATE STARTED : 3/1/	DATE FINISHED : 3/1/	BORING No. MW 7
CLIENT :		PROJECT No : 6-
PROJECT NAME & LOCATION :		
REMARKS:		
DRILLING CONTRACTOR :	DRILLER :	DRILLER :

EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON	SOIL SAMPLER :	CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :						PVC		HSA
SIZE :						4"		
HAMMER WT / FALL				BIT.				

SURFACE ELEVATION :

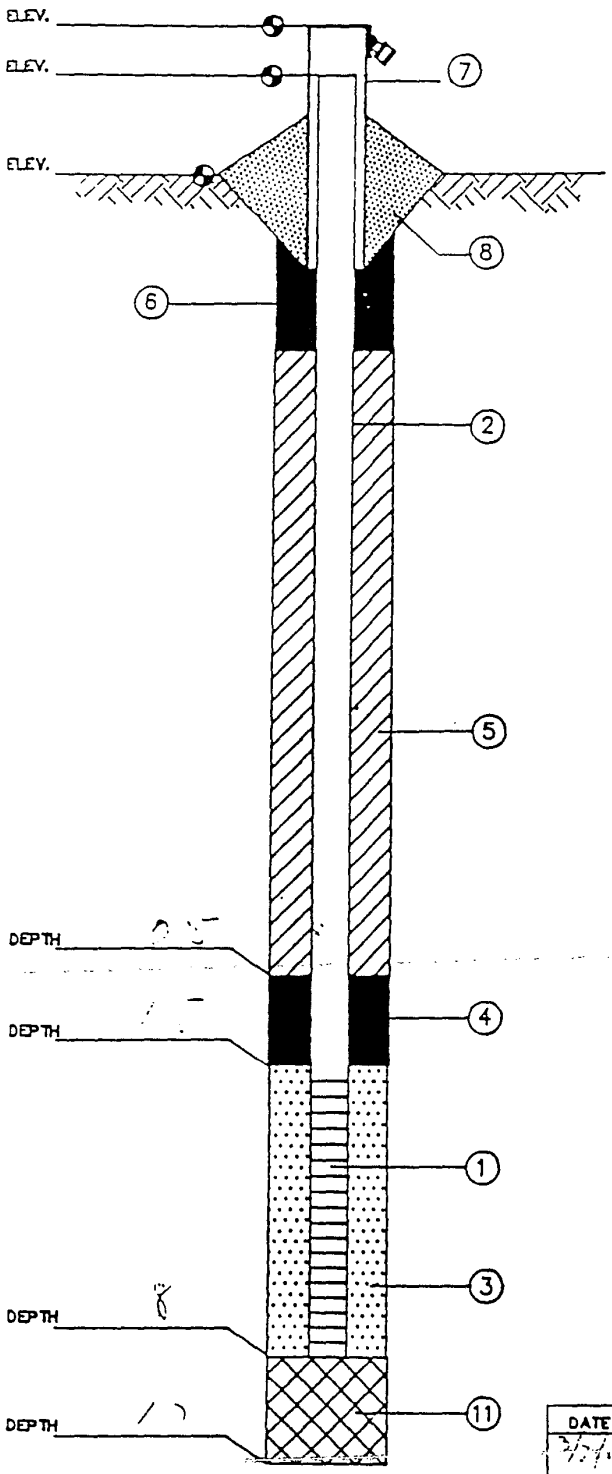
SURFACE CONDITIONS :

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE =0–10% LITTLE=10–20% SOME=20–30% AND=35–50%	MONITORING WELL CONSTRUCTION
0							
5						FILL, BN-GN M-C SAND W/ C-PEBBLES, CINDERS	
10						ORGANIC MATL. (PEAT) W/ GN CLAY, SOME F-M SAND. STRONG H_2S ODOR.	

R2-0003876

ALL DEPTHS MEASURED
FROM GROUND SURFACE



MONITORING WELL CONSTRUCTION INFORMATIC

JOB No. _____ CLIENT _____

LOCATION _____

DATE _____ WELL No. 7

HYDROGEOLOGIST _____

DRILLING CONTRACTOR _____

1.) SCREEN TYPE _____

SLOTTED LENGTH _____

SLOT SIZE _____

2.) SOLID PIPE TYPE _____

SOLID PIPE LENGTH _____

PIPE & SCREEN DIA. _____

JOINT TYPE – SLIP/GLUED _____ THREADED _____

3.) TYPE OF BACKFILL AROUND SCREEN _____

4.) TYPE OF LOWER SEAL (IF INSTALLED)

5.) TYPE OF BACKFILL _____

HOW INSTALLED _____

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

7.) PROTECTIVE CASING – YES ✓ NO _____

LOCKING CAP YES _____ NO _____

8.) CONCRETE SEAL – YES ✓ NO _____

9.) DRILLING METHOD _____

10.) ADDITIVES USED (IF ANY) _____

11.) TYPE OF BACKFILL _____

WATER LEVEL CHECKS *

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL CASING

BORING REPORT

eder associates, consulting engineers p. c.
85 FOREST AVENUE LOCUST VALLEY, N.Y. 11560
2317 INTERNATIONAL LANE MADISON, WI. 53704

SHEET 1 OF 1

DATE STARTED :	DATE FINISHED :	BORING No.
CLIENT :		PROJECT No :
PROJECT NAME & LOCATION :		
REMARKS:		
DRILLING CONTRACTOR :	DRILLER :	DRILLER :

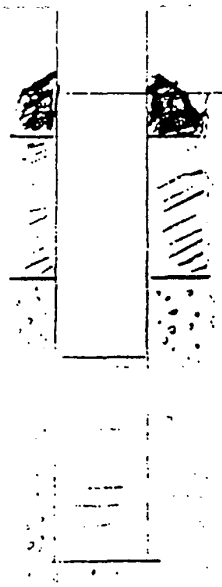
EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON	SOIL SAMPLER :	CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :						PVC		HSA
SIZE :						4"		
HAMMER WT / FALL				BIT.				

SURFACE ELEVATION :

SURFACE CONDITIONS :

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

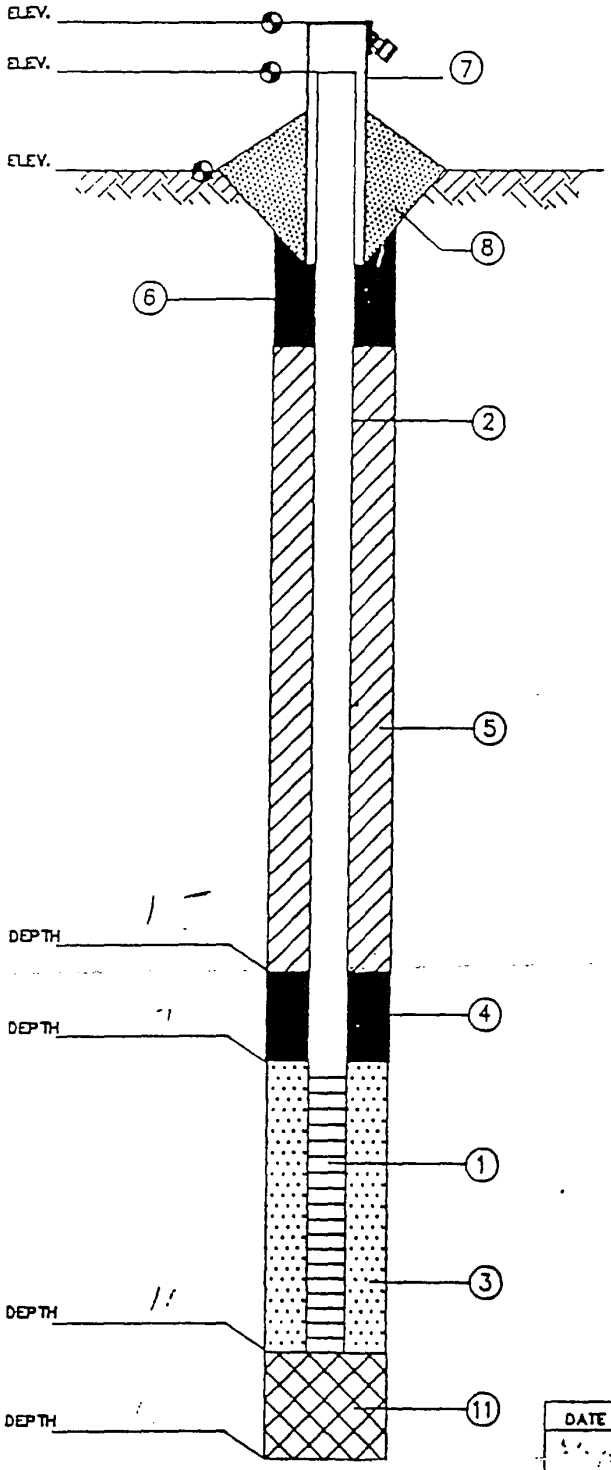
DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE =0–10% LITTLE=10–20% SOME=20–30% AND=35–50%	MONITORING WELL CONSTRUCTION
0							
5						FILL, BN-TN M-C SAND W/ C-PEBBLES, CINDERS.	
10						ORGANIC MATL. (PEAT) W/GN CLAY, SOME F-SAND. STRONG H_2S ODOR.	



43 of 390

R2-0003878

ALL DEPTHS MEASURED
FROM GROUND SURFACE



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. _____ CLIENT _____

LOCATION _____

DATE _____ WELL No. 8

HYDROGEOLOGIST _____

DRILLING CONTRACTOR _____

1.) SCREEN TYPE _____

SLOTTED LENGTH _____ f

SLOT SIZE _____

2.) SOLID PIPE TYPE _____

SOLID PIPE LENGTH _____ f

PIPE & SCREEN DIA. _____ i

JOINT TYPE – SLIP/GLUED _____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN _____

4.) TYPE OF LOWER SEAL (IF INSTALLED)

5.) TYPE OF BACKFILL —

HOW INSTALLED —

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

7.) PROTECTIVE CASING – YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL – YES ✓ NO _____

9.) DRILLING METHOD _____

10.) ADDITIVES USED (IF ANY) _____

11.) TYPE OF BACKFILL —

WATER LEVEL CHECKS *

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL CASING

44 of 390

R2-0003879

BORING REPORT

eder associates, consulting engineers p. c.
85 FOREST AVENUE LOCUST VALLEY, N.Y. 11560
2317 INTERNATIONAL LANE MADISON, WI. 53704

SHEET 1 OF 1

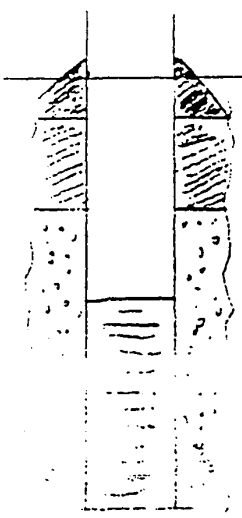
DATE STARTED : [illegible]	DATE FINISHED : [illegible]	BORING No. [illegible] 9
CLIENT : [illegible]		PROJECT No : [illegible]
PROJECT NAME & LOCATION : [illegible]		
REMARKS:		
DRILLING CONTRACTOR : [illegible]	DRILLER : [illegible]	DRILLER :

EQUIPMENT :	CASING :	SOIL SAMPLER : SPLIT SPOON	SOIL SAMPLER :	CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE :						[illegible]		[illegible]
SIZE :						[illegible]		
HAMMER WT / FALL				BIT.				

SURFACE ELEVATION :

SURFACE CONDITIONS :

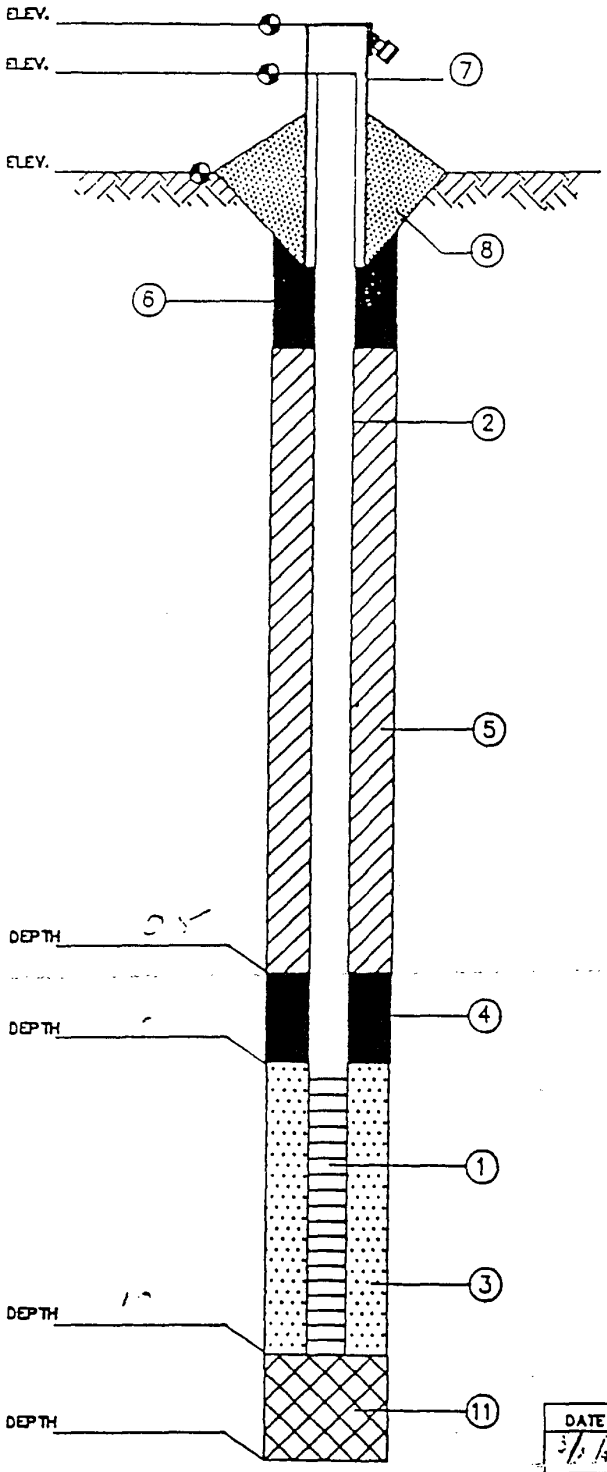
WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND No.	SAMPLE DEPTH (FROM - TO)	BLOWS / 6" OR CORE TIME	STRATA DEPTH / ELEV.	DESCRIPTION AND REMARKS TRACE =0-10% LITTLE=10-20% SOME=20-30% AND=35-50%	MONITORING WELL CONSTRUCTION
0	—				0	FILL, BN/GN M-C SAND w/ C-PEBBLES, CINDERS	
5					5	GR F-M SAND, SILT. SOME C-PEBBLES	
10					6	ORGANIC MATL (PEAT) W/GN CLAY, STRONG H_2S ODOR,	
					10	[illegible]	

45 of 390

R2-0003880

ALL DEPTHS MEASURED
FROM GROUND SURFACE



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. _____ CLIENT _____

LOCATION _____

DATE _____ WELL No. 9

HYDROGEOLOGIST _____

DRILLING CONTRACTOR _____

1.) SCREEN TYPE _____

SLOTTED LENGTH 5 f

SLOT SIZE _____

2.) SOLID PIPE TYPE _____

SOLID PIPE LENGTH _____ f

PIPE & SCREEN DIA. _____ in

JOINT TYPE – SLIP/GLUED _____ THREADED _____

3.) TYPE OF BACKFILL AROUND SCREEN _____

4.) TYPE OF LOWER SEAL (IF INSTALLED)

5.) TYPE OF BACKFILL _____

HOW INSTALLED _____

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

7.) PROTECTIVE CASING – YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL – YES ✓ NO _____

9.) DRILLING METHOD _____

10.) ADDITIVES USED (IF ANY) –

11.) TYPE OF BACKFILL –

WATER LEVEL CHECKS *

DATE	TIME	DEPTH TO WATER	REMARKS
3/14			

* FROM TOP OF WELL CASING

46 of 390

R2-0003881

Appendix C-3: Off-Site Ditch Logs

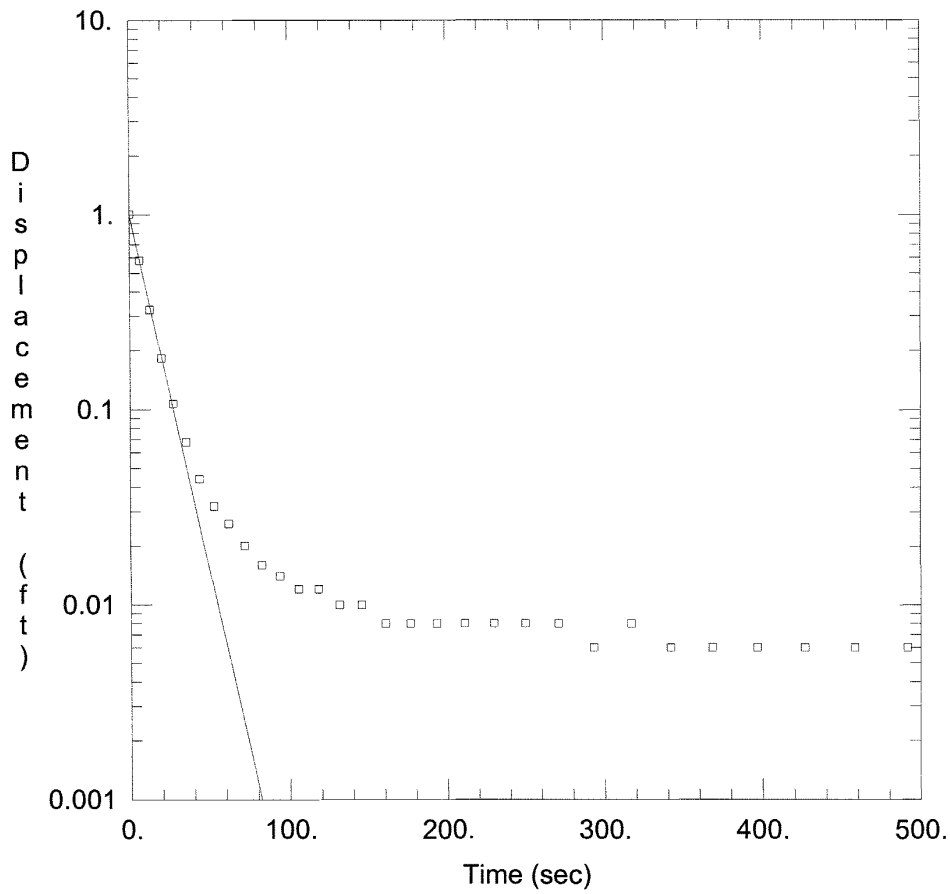
Appendix C-3
SEDIMENT SAMPLE PHYSICAL DESCRIPTIONS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample Location	Top Depth	Bottom Depth	Burmeister Description	% Gravel	%Sand	% Fines
South Branch Creek						
SED-7	0	0.5	Black SILT, some f sand, some organic matter, saturated	13.8	75.9	10.2
SED-8	0	0.5	Black SILT, some fm sand, some organic matter, saturated	0.78	86.7	12.6
SED-9	0	0.5	Black SILT, mfc sand, some organic matter, little gravel and pebbles, saturated	9.2	86.3	4.5
SED-A-1	0	0.5	Black, fine ClayeySILT, trace (+/-) fine sand, some organic, saturated	7	75.6	17.5
SED-A-2	0	0.5	Dark grey to black, SILT, some fmSand, little odd shaped (ceramic) stones, wet. Petroleum like smell.	15.8	70.2	14
SED-A-2	0.5	1	Dark grey, SiltyCLAY, trace fmsand, trace(-) pebbles, some organic matter, moist	0	78.9	21.1
SED-A-2	1	1.5	Dark grey CLAY, some silt.	0.47	75.7	23.9
SED-A-3	0	0.5	Black, fine ClayeySILT, little fine sand, some organic, saturated	3	74.7	22.3
SED-B-1	0	0.5	Black, very fine SILT, trace mcsand, saturated	50.7	42.9	6.4
SED-B-2	0	0.5	Black, fm SILT, some fmsand, little gravel, saturated	1.6	95.3	3.1
SED-B-2	0.5	1	Black, CLAYandSILT, fmsilt, some (-)fmsand, saturated	4.7	91.5	3.9
SED-B-2	1	1.5	Dark grey, Silty CLAY, fine Silt, trace sand, little organic matter, moist	11	62.1	26.9
SED-B-2	1.5	2	Light grey, Silty CLAY, Silt, trace f sand, trace organic matter, moist	1.6	54	44.5
SED-B-3	0	0.5	Black, fine to medium SILT, some msand, saturated	4	87.3	8.7
SED-C-1	0	0.5	Black, SILT, some mSand, some organic matter, saturated	0.72	74.1	25.2
SED-C-2	0	0.5	Dark grey to black, SiltyClay, some f Sand, little organic matter, moist	1.9	78.6	19.5
SED-C-2	0.5	1	Dark grey, SiltyClay, some fsand, little organic matter, moist	0	67.5	32.5
SED-C-2	1	1.5	Dark grey, CLAY, some silt, trace fsand, trace organic matter	0	69.8	30.2
SED-C-3	0	0.5	Black, fine SILT, some fSand, little organic matter, saturated	4.8	82.3	12.9
SED-D-1	0	0.5	Black to dark grey, Silt&Clay, some f Sand, some organic matter, wet	1.1	82	16.9
SED-D-2	0	0.5	Black SILT, some f Sand, some organic matter, saturated	0	79	21
SED-D-2	0.5	1	Black SILT, some f Sand, little organic matter, saturated	1.3	82.8	15.9
SED-D-2	1	1.5	Black SILT, some f Sand, little organic matter, saturated	6.5	77.2	16.3
SED-D-2	1.5	2	Black SILT, f Sand, saturated	0.84	92.7	6.5
SED-D-2	2	2.5	Black SiltyClay, some f Sand, some organic matter	0	88	12
SED-D-3	0	0.5	Black to dark grey, Silt&Clay, some f Sand, some organic matter, saturated	26.1	65.6	8.4
SED-E-1	0	0.5	Dark grey to black, SILT&ORGANICS, some clay, some sand, wet	3.2	89.2	7.6
SED-E-2	0	0.5	Dark grey to black, SiltyClay, some f Sand, little organic matter, moist	0.5	85.9	13.7
SED-E-2	0.5	1	Dark grey to black, SiltyClay, some f Sand, little organic matter, wet	0.46	94.6	4.9
SED-E-2	1	1.5	Dark grey to black, CLAY, some Silt, little organic matter	0	86.7	11.1
SED-E-2	1.5	2	Dark grey CLAY, some Silt, trace organic matter	0	86.3	13.7
SED-E-3	0	0.5	Dark grey to black, SILT&ORGANICS, some fine sand, wet	0.15	86.8	13
Arthur Kill						
SED-F-1	0	0.5	Dark grey to black, SandySILT, some pebbles, some organic matter, wet	5.4	92.1	2.6
SED-F-2	0	0.5	Dark grey to black, Clay & fmSandy, some pebbles, some organic matter, wet	15	80	5
SED-F-3	0	0.5	Dark grey to black, SandySILT, some pebbles, some organic matter, wet	3.2	94.3	2.5
SED-G-1	0	0.5	Dark grey to black, SILT, little Clay, moist	39.2	54	6.4
SED-G-2	0	0.5	Dark grey to black, SILT, little Clay, moist	46.9	46	7.5
SED-G-3	0	0.5	Dark grey to black, SILT, little Clay, moist	59.6	33	7.6
Old Place Creek						
SED-W-1	0	0.5	Dark grey to black, SILT&CLAY, some fSand, some organic matter, wet	59.3	38	2.6
SED-W-3	0	0.5	Dark grey to black, ClayeySILT, trace sand, trace f gravel, some organic matter, wet	83.3	12	4.3
SED-X-1	0	0.5	Dark grey to black, SILT&CLAY, trace fine sand, some organic matter, wet	9.1	69.9	21
SED-X-3	0	0.5	Dark grey to black, SILT&CLAY, trace fine sand, some organic matter, wet	0	81.8	18.2
SED-Y-1	0	0.5	Dark grey to black, SILT&CLAY, trace fine sand, some organic matter, wet	0.16	76.7	23.1
SED-Y-3	0	0.5	Dark grey to black, SILT&CLAY, trace fine sand, some organic matter, wet	0	79.1	20.9
SED-Z-1	0	0.5	Dark grey to black, SILT&CLAY, trace fine sand, some organic matter, wet	0	72.7	27.3
SED-Z-2	0	0.5	Dark grey to black, SILT&CLAY, trace fine sand, some organic matter, wet	1.4	14	85
SED-Z-3	0	0.5	Dark grey to black, SILT&CLAY, trace fine sand, some organic matter, wet	2.3	73.2	24.6

Appendix D: Hydrogeologic Data

D-1 – Hydraulic Conductivity Reports
D-2 - Hydrographs

Appendix D-1: Hydraulic Conductivity Reports



MW-6

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-6.aqt
Date: 08/20/02 Time: 12:43:31

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-6
Test Date: 12/5/01

AQUIFER DATA

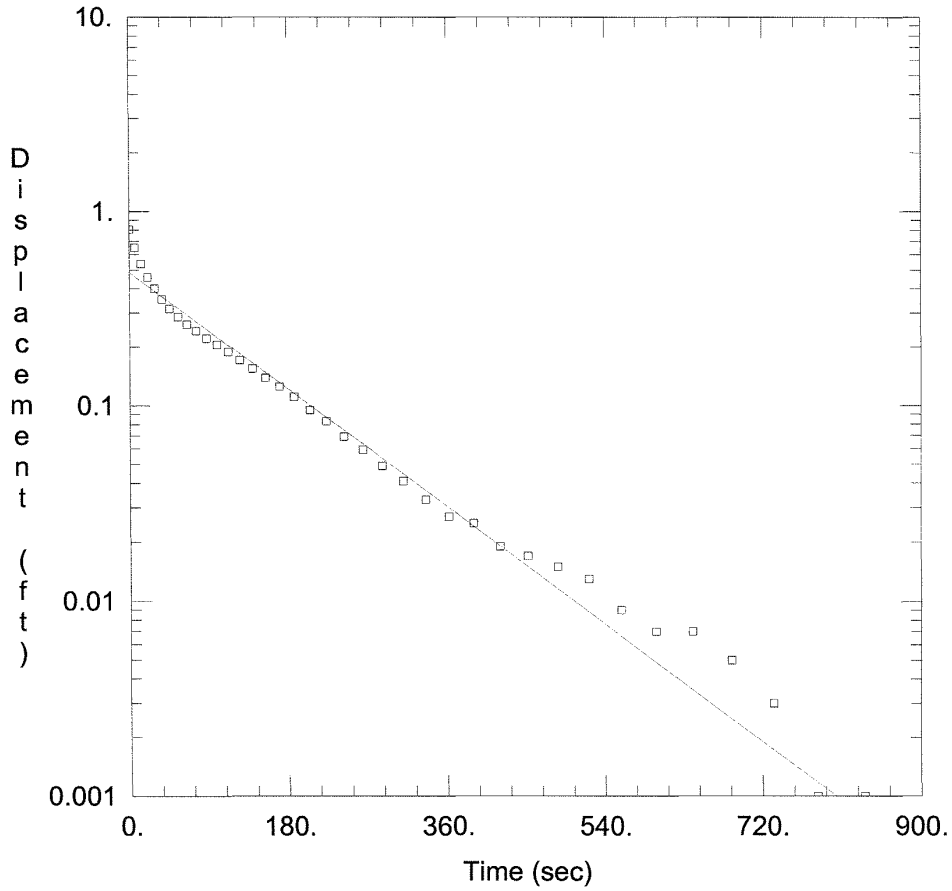
Saturated Thickness: 5.07 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-6)

Initial Displacement: 1.003 ft
Casing Radius: 0.083 ft
Screen Length: 5. ft
Water Column Height: 5.07 ft
Wellbore Radius: 0.177 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.01218 cm/sec
y0 = 0.9965 ft



MW-7

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-7.aqt
Date: 08/20/02 Time: 12:43:36

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-7
Test Date: 12/5/01

AQUIFER DATA

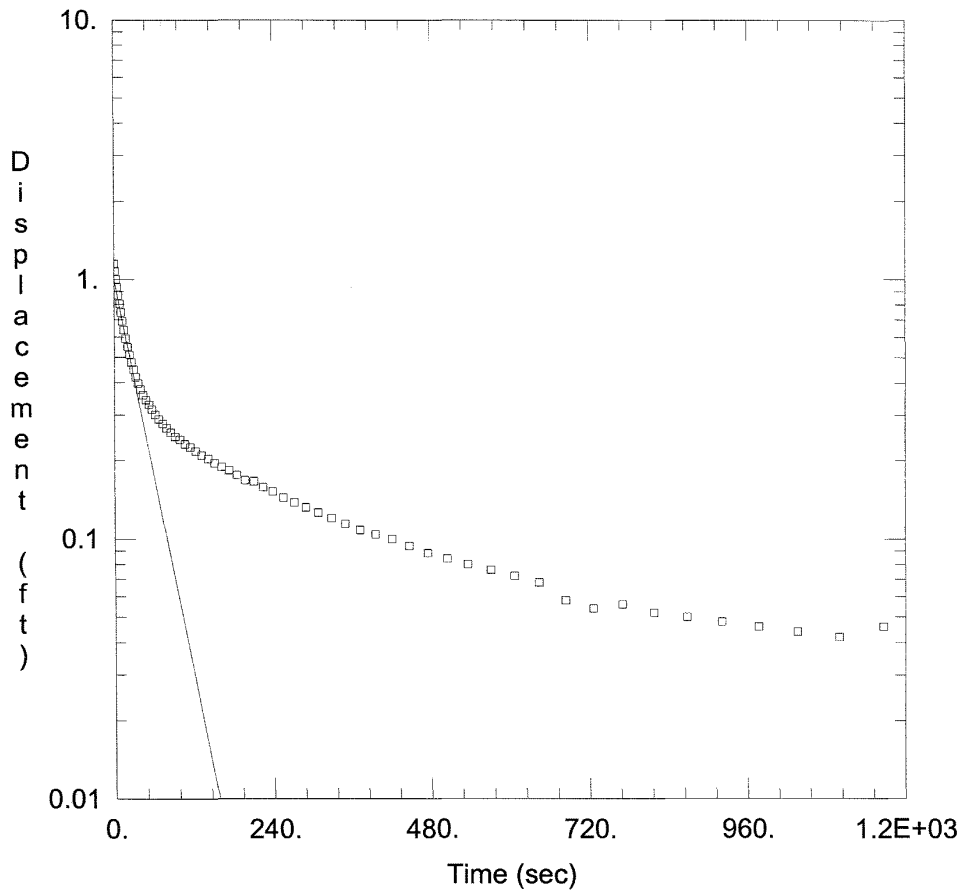
Saturated Thickness: 5.46 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-7)

Initial Displacement: 0.804 ft
Casing Radius: 0.083 ft
Screen Length: 5. ft
Water Column Height: 5.46 ft
Wellbore Radius: 0.177 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.001115 cm/sec
y0 = 0.4856 ft



MW-8

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-8.aqt
Date: 08/20/02 Time: 12:43:40

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-8
Test Date: 12/5/01

AQUIFER DATA

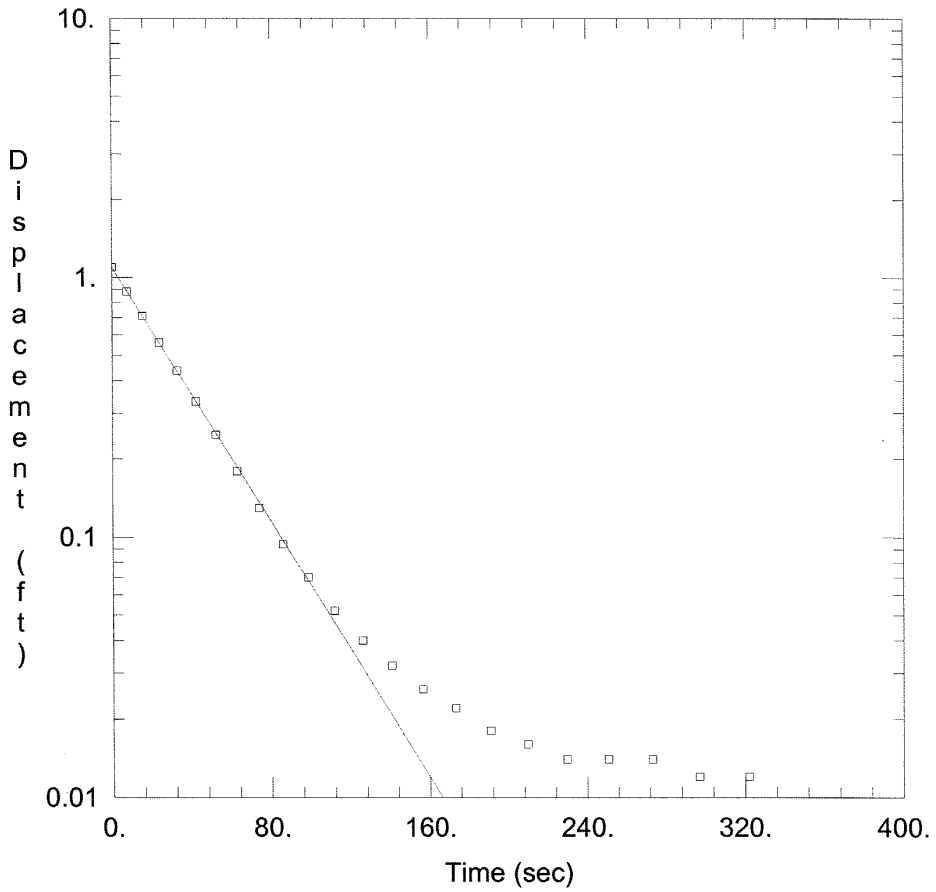
Saturated Thickness: 6.41 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-8)

Initial Displacement: 1.149 ft
Casing Radius: 0.083 ft
Screen Length: 5. ft
Water Column Height: 6.41 ft
Wellbore Radius: 0.177 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.004275 cm/sec
y0 = 1.002 ft



MW-9

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-9.aqt
Date: 08/20/02 Time: 12:43:46

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-9
Test Date: 12/5/01

AQUIFER DATA

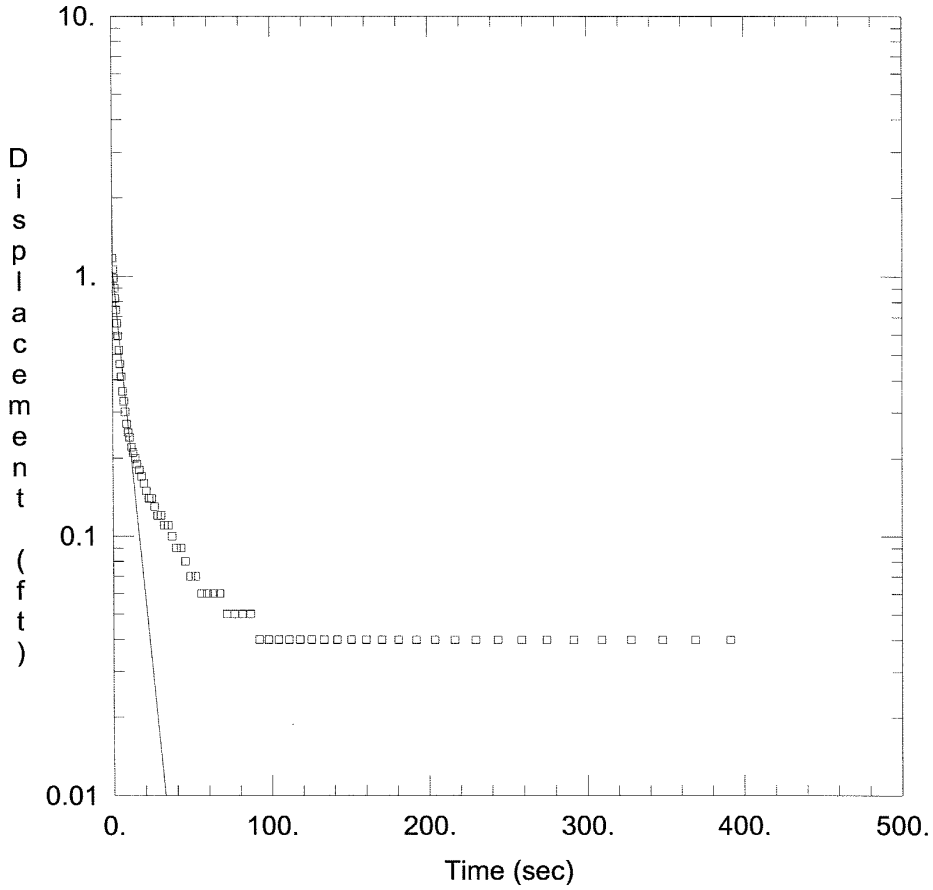
Saturated Thickness: 4.59 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-9)

Initial Displacement: 1.095 ft
Casing Radius: 0.083 ft
Screen Length: 5. ft
Water Column Height: 4.59 ft
Wellbore Radius: 0.177 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.004089 cm/sec
y0 = 1.093 ft



MW-10

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-10.aqt
Date: 08/20/02 Time: 12:42:17

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-10
Test Date: 12/5/01

AQUIFER DATA

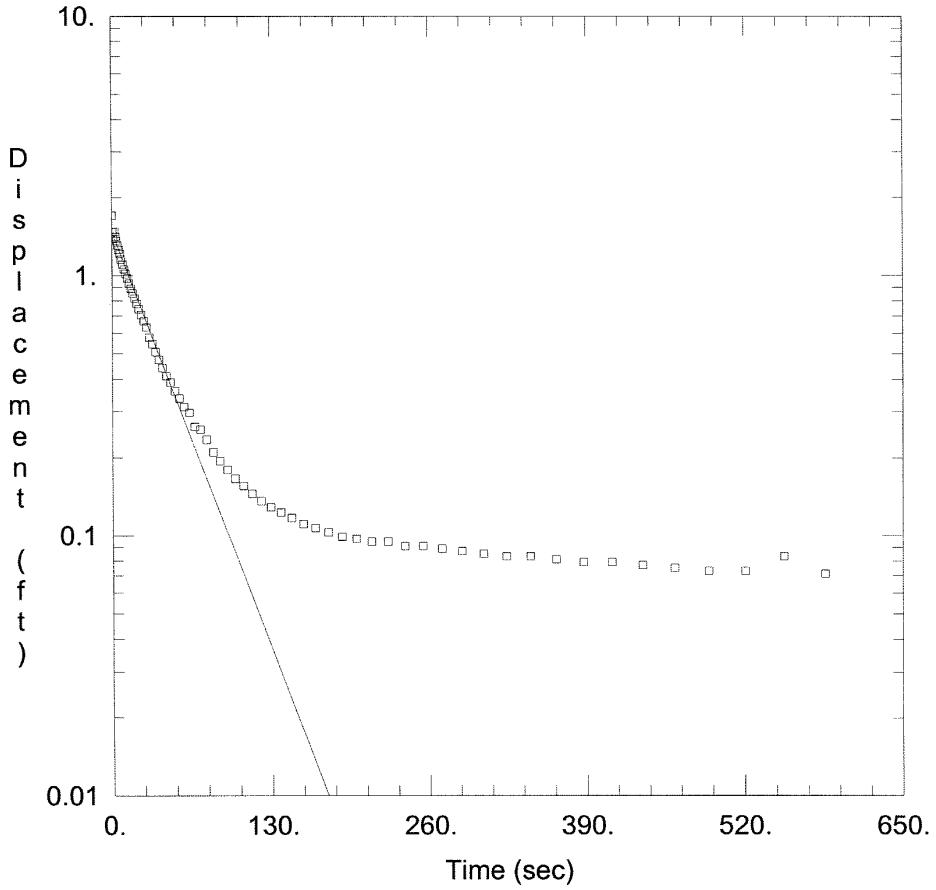
Saturated Thickness: 3.79 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-10)

Initial Displacement: 1.17 ft
Casing Radius: 0.083 ft
Screen Length: 6. ft
Water Column Height: 3.79 ft
Wellbore Radius: 0.177 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.01826 cm/sec
y0 = 1.068 ft



MW-11

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-11.aqt
Date: 08/20/02 Time: 12:42:27

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-11
Test Date: 12/4/01

AQUIFER DATA

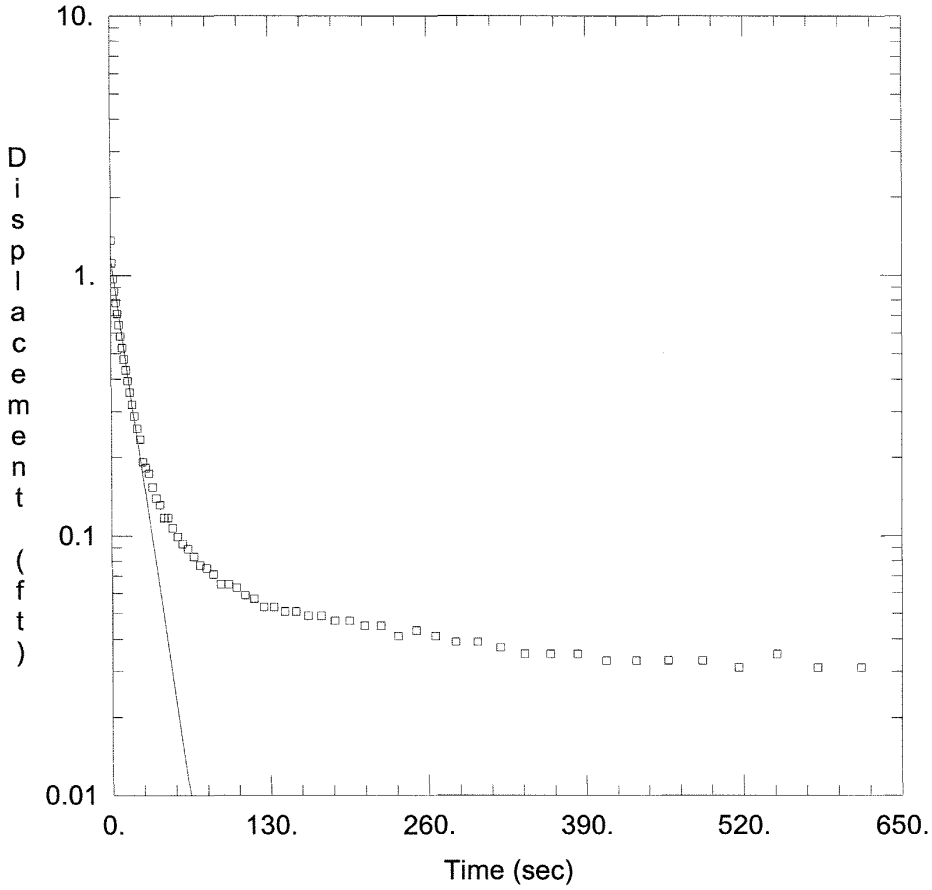
Saturated Thickness: 7.66 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-11)

Initial Displacement: 1.702 ft
Water Column Height: 8.66 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.177 ft
Screen Length: 5.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.003843 cm/sec
y0 = 1.472 ft



MW-12

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-12.aqt
Date: 08/20/02 Time: 12:42:34

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-12
Test Date: 12/4/01

AQUIFER DATA

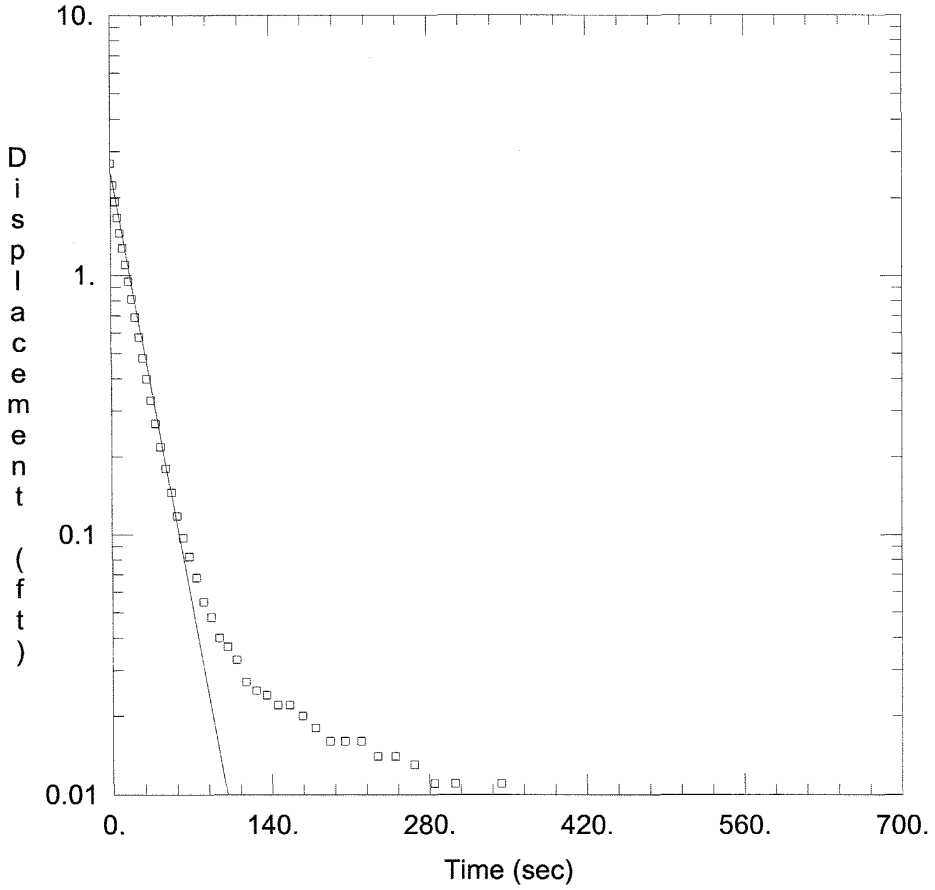
Saturated Thickness: 8.52 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-12)

Initial Displacement: 1.36 ft
Casing Radius: 0.083 ft
Screen Length: 8. ft
Water Column Height: 8.82 ft
Wellbore Radius: 0.177 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.007658 cm/sec
y0 = 1.151 ft



MW-13

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-13.aqt
Date: 08/20/02 Time: 12:42:45

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-13
Test Date: 12/4/01

AQUIFER DATA

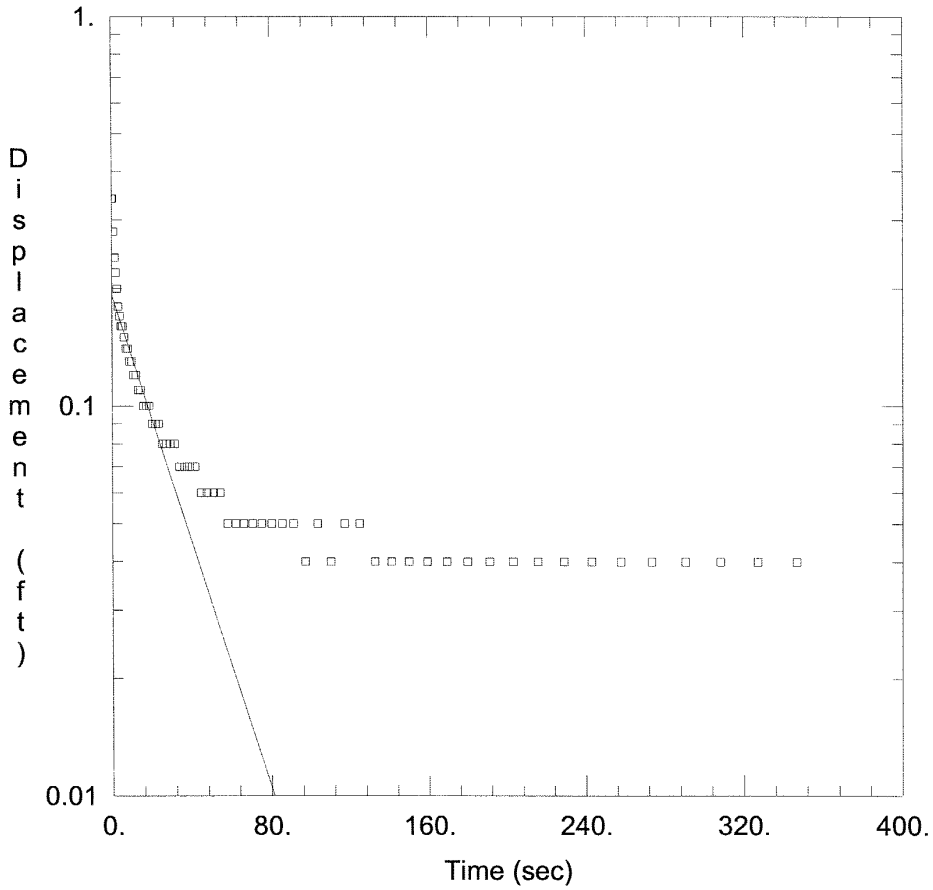
Saturated Thickness: 6.77 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-13)

Initial Displacement: 2.699 ft
Water Column Height: 6.77 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.177 ft
Screen Length: 5. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.007962 cm/sec
y0 = 2.504 ft



MW-14

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-14.aqt
Date: 08/20/02 Time: 12:42:51

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-14
Test Date: 12/4/01

AQUIFER DATA

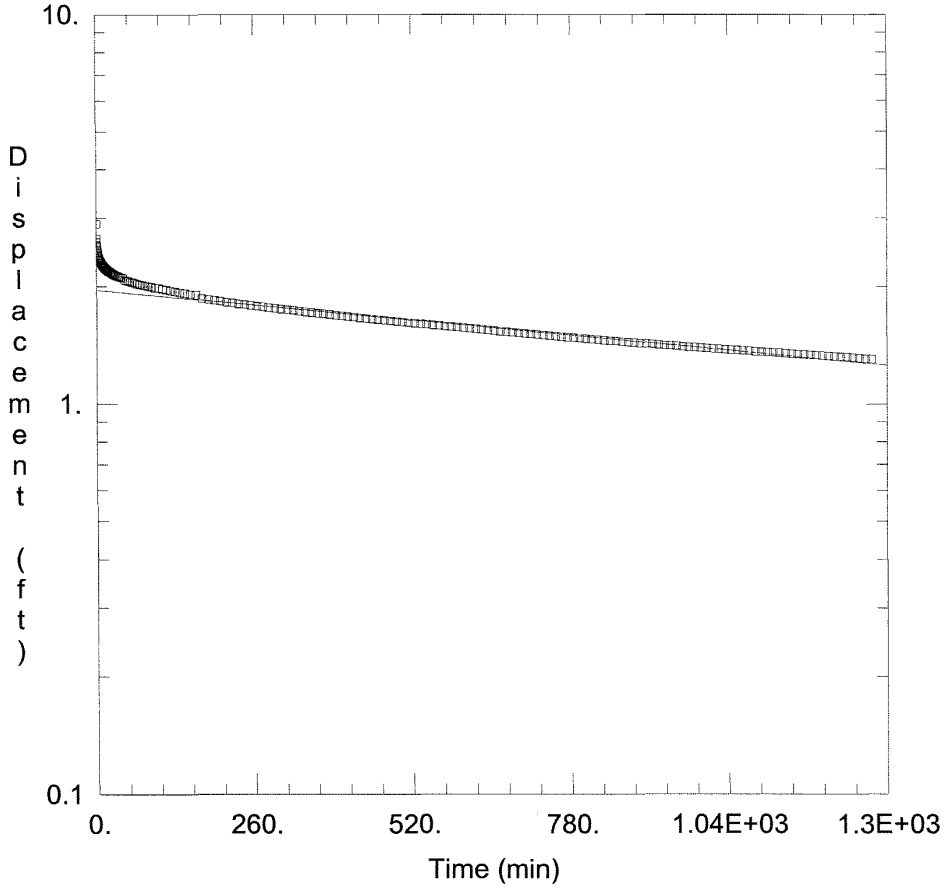
Saturated Thickness: 1.61 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-14)

Initial Displacement: 0.34 ft
Casing Radius: 0.083 ft
Screen Length: 3.5 ft
Water Column Height: 1.61 ft
Wellbore Radius: 0.177 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.006717 cm/sec
y0 = 0.192 ft



MW-15

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-15.aqt
Date: 08/20/02 Time: 12:42:56

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-15
Test Date: 12/5/01

AQUIFER DATA

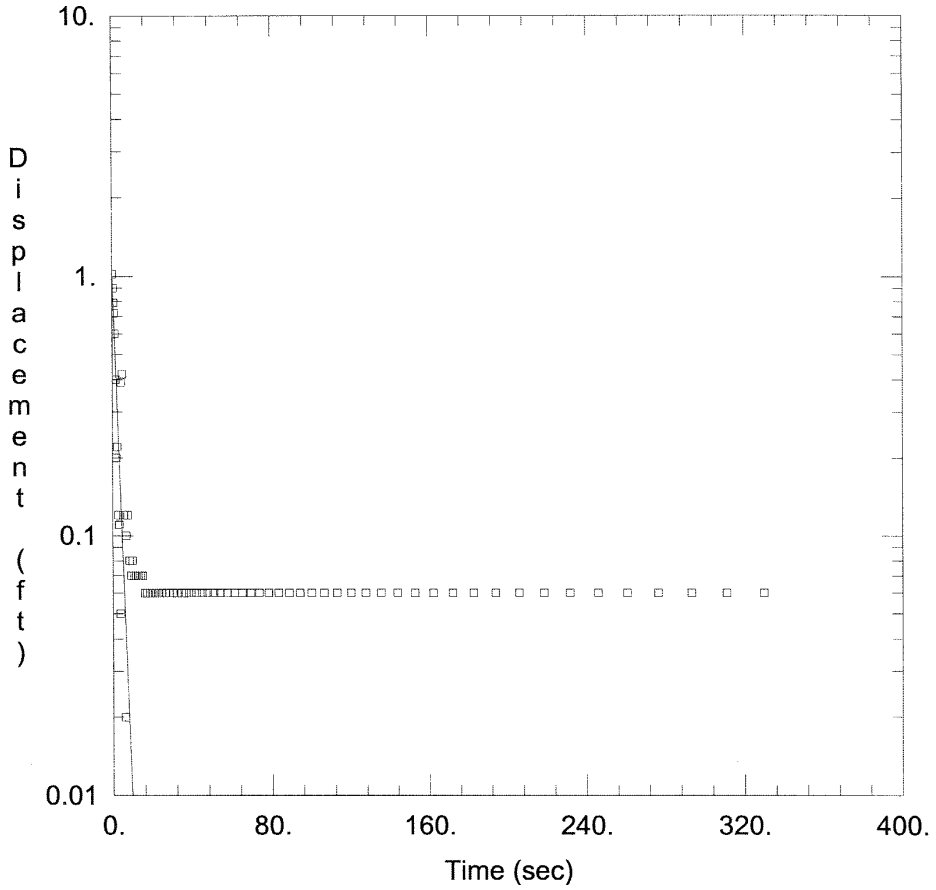
Saturated Thickness: 3.42 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-15)

Initial Displacement: 2.895 ft
Water Column Height: 3.92 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.177 ft
Screen Length: 8.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 5.602E-07 cm/sec
y0 = 1.957 ft



MW-16

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-16.aqt
Date: 08/20/02 Time: 12:43:01

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-16
Test Date: 12/4/01

AQUIFER DATA

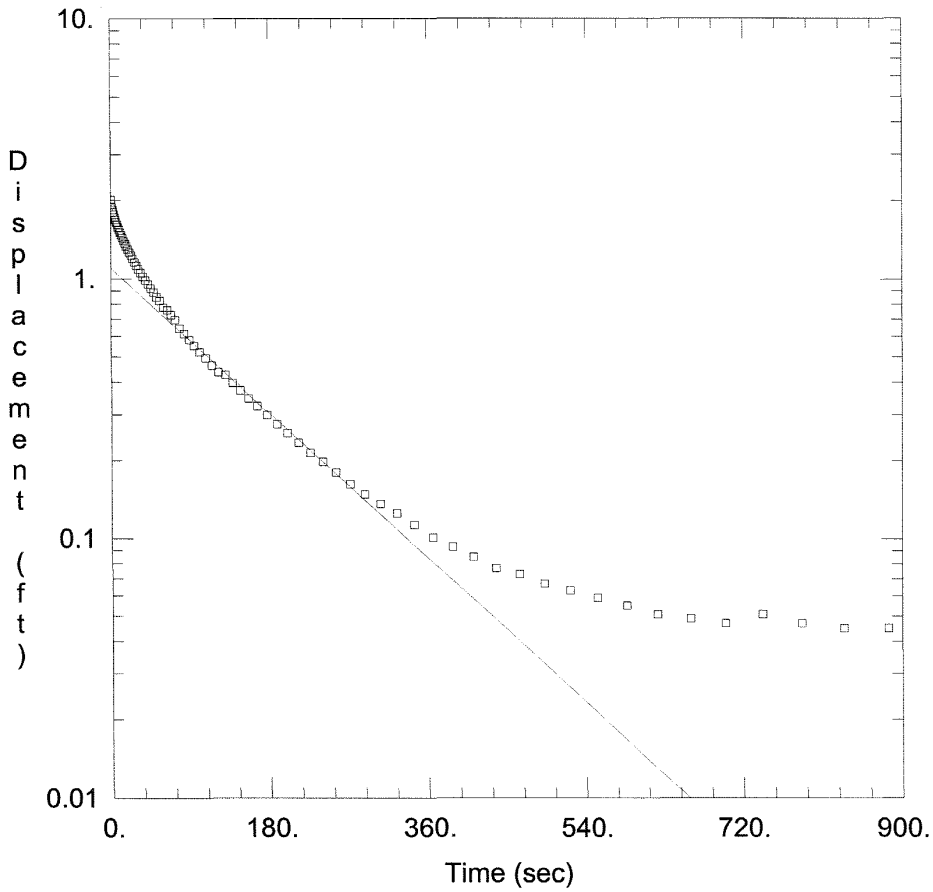
Saturated Thickness: 10.39 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-16)

Initial Displacement: 1.019 ft
Casing Radius: 0.083 ft
Screen Length: 9. ft
Water Column Height: 10.39 ft
Wellbore Radius: 0.177 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.0467 cm/sec
y0 = 1.019 ft



MW-17

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-17.aqt
Date: 08/20/02 Time: 12:43:08

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-17
Test Date: 12/4/01

AQUIFER DATA

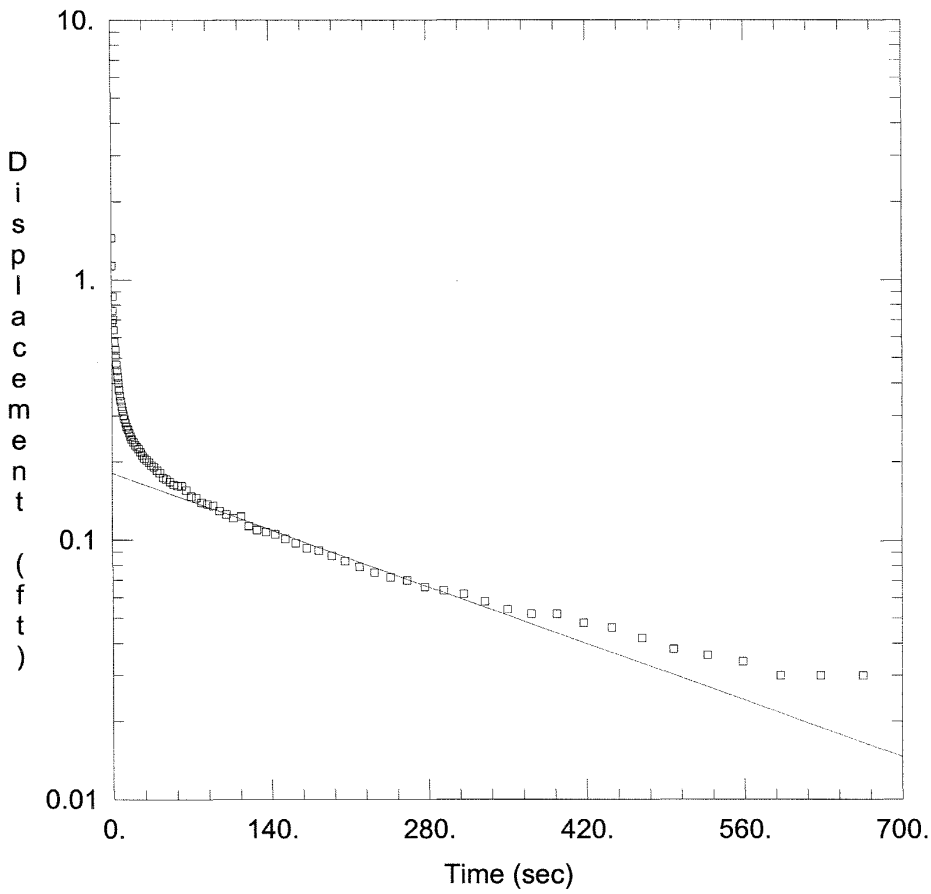
Saturated Thickness: 9.1 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17)

Initial Displacement: 2.008 ft
Casing Radius: 0.083 ft
Screen Length: 8. ft
Water Column Height: 9.1 ft
Wellbore Radius: 0.177 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.0007374 cm/sec
y0 = 1.097 ft



MW-18

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-18.aqt
Date: 08/20/02 Time: 12:43:13

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-18
Test Date: 12/4/01

AQUIFER DATA

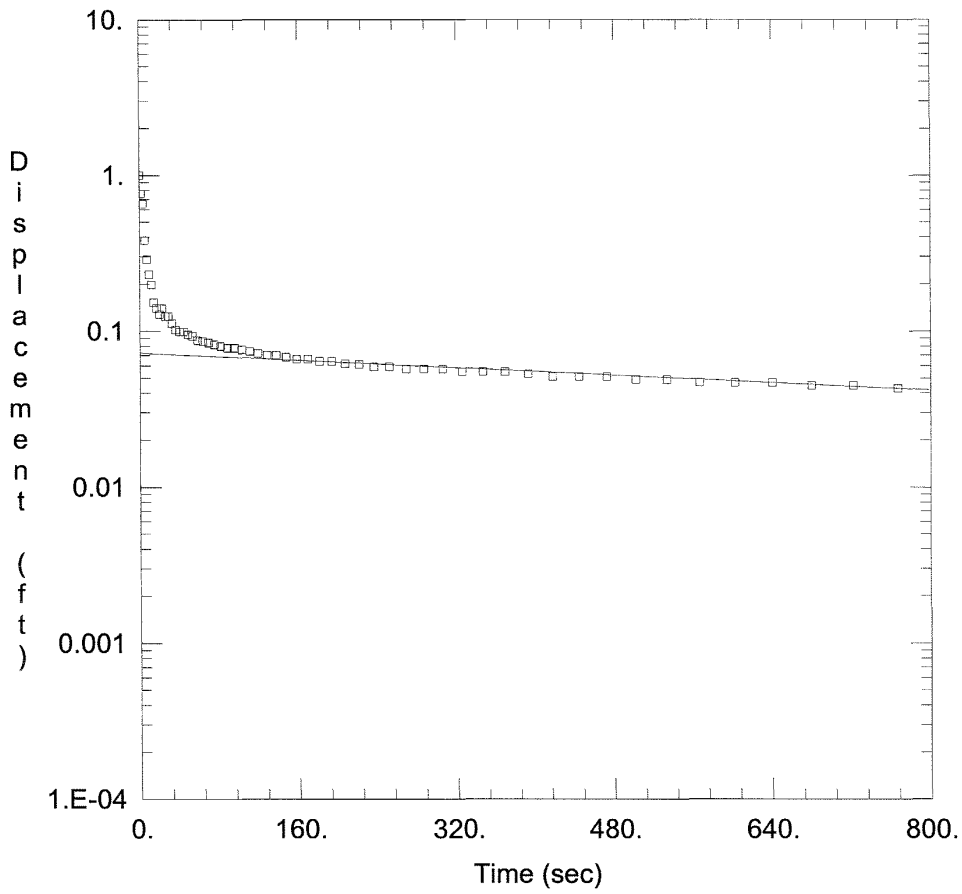
Saturated Thickness: 8.51 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-18)

Initial Displacement: 1.447 ft
Water Column Height: 8.51 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.177 ft
Screen Length: 9. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.0003399 cm/sec
y0 = 0.1803 ft



MW-19

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-19.aqt
Date: 08/20/02 Time: 12:43:20

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-19
Test Date: 12/4/01

AQUIFER DATA

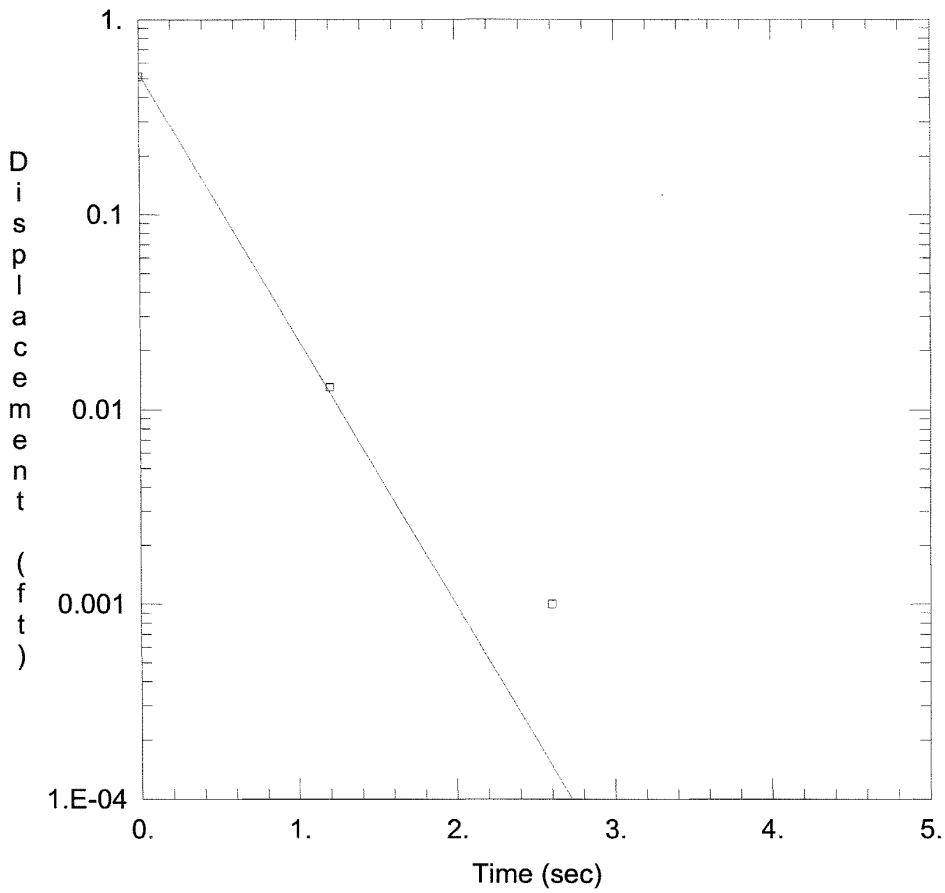
Saturated Thickness: 9.1 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-19)

Initial Displacement: 0.998 ft
Casing Radius: 0.083 ft
Screen Length: 9. ft
Water Column Height: 9.1 ft
Wellbore Radius: 0.177 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 6.404E-05 cm/sec
y0 = 0.07235 ft



MW-20

Data Set: P:\LCP\21405\Data\Slug_Test_Data\mw-20.aqt
Date: 08/20/02 Time: 12:43:26

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP Environmental Services Inc
Project: LCP Superfund Site
Test Location: Linden, NJ
Test Well: MW-20
Test Date: 12/4/01

AQUIFER DATA

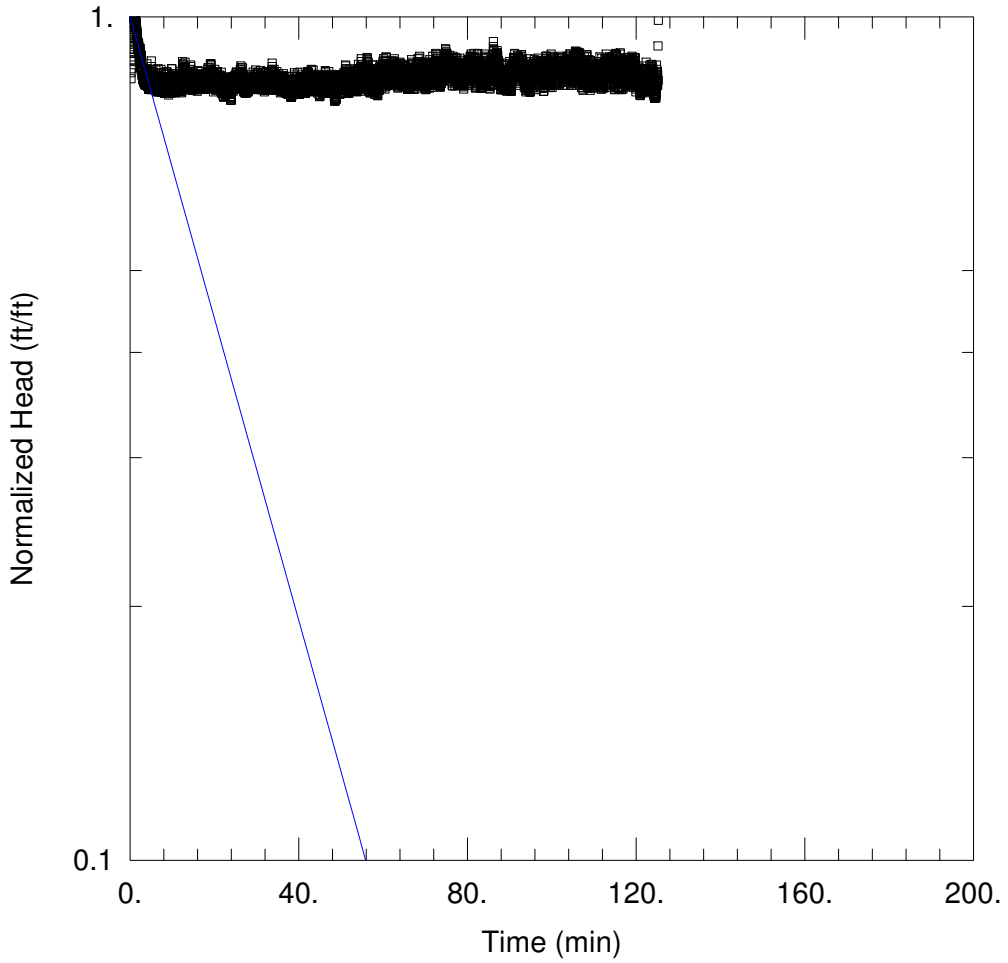
Saturated Thickness: 2.88 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-20)

Initial Displacement: 0.509 ft
Water Column Height: 2.88 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.177 ft
Screen Length: 5. ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.456 cm/sec
y0 = 0.5337 ft



RISING

Data Set: P:\...\MW-6D-RISING.aqt
Date: 07/25/07 Time: 07:47:29

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-6D
Test Date: 2/20/07

AQUIFER DATA

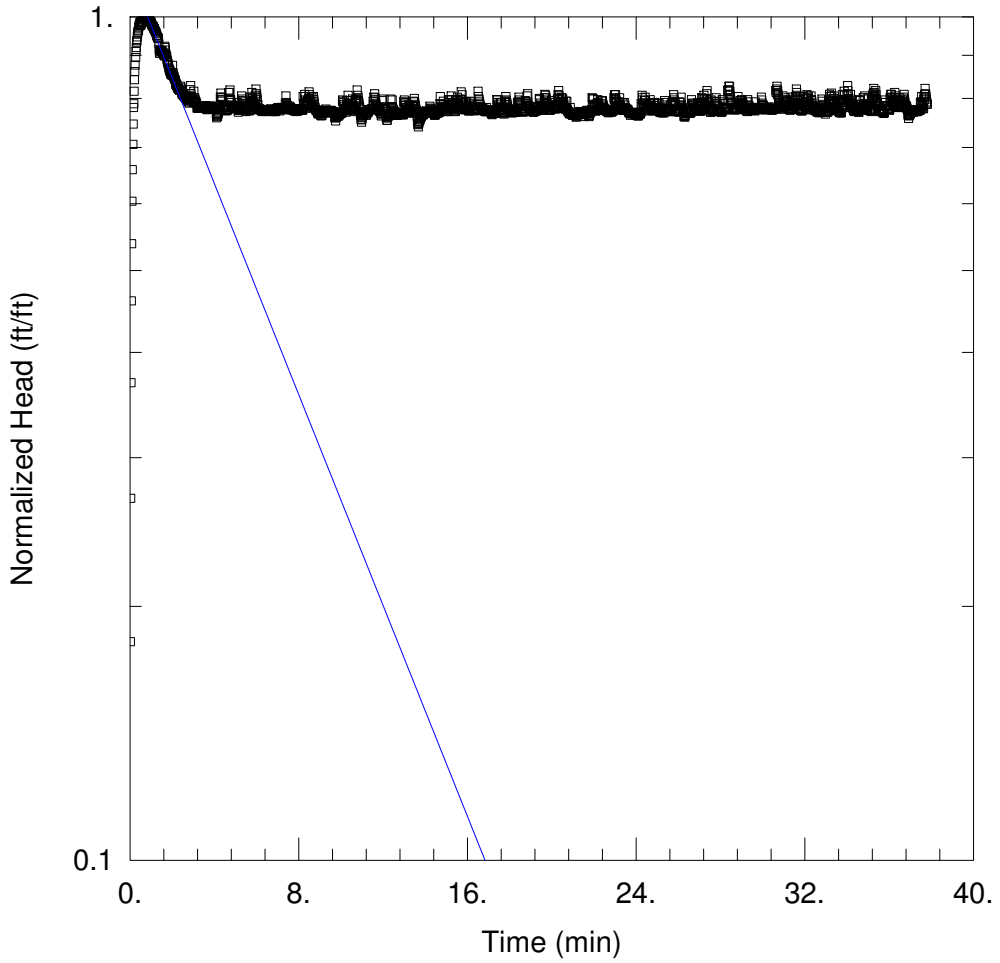
Saturated Thickness: 12. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-6D)

Initial Displacement: -0.598 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 13.05 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 3.955E-5 cm/sec
y0 = -0.5984 ft



RISING

Data Set: P:\...\MW-11D-RISING.aqt
Date: 07/25/07 Time: 07:52:00

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-11D
Test Date: 2/20/07

AQUIFER DATA

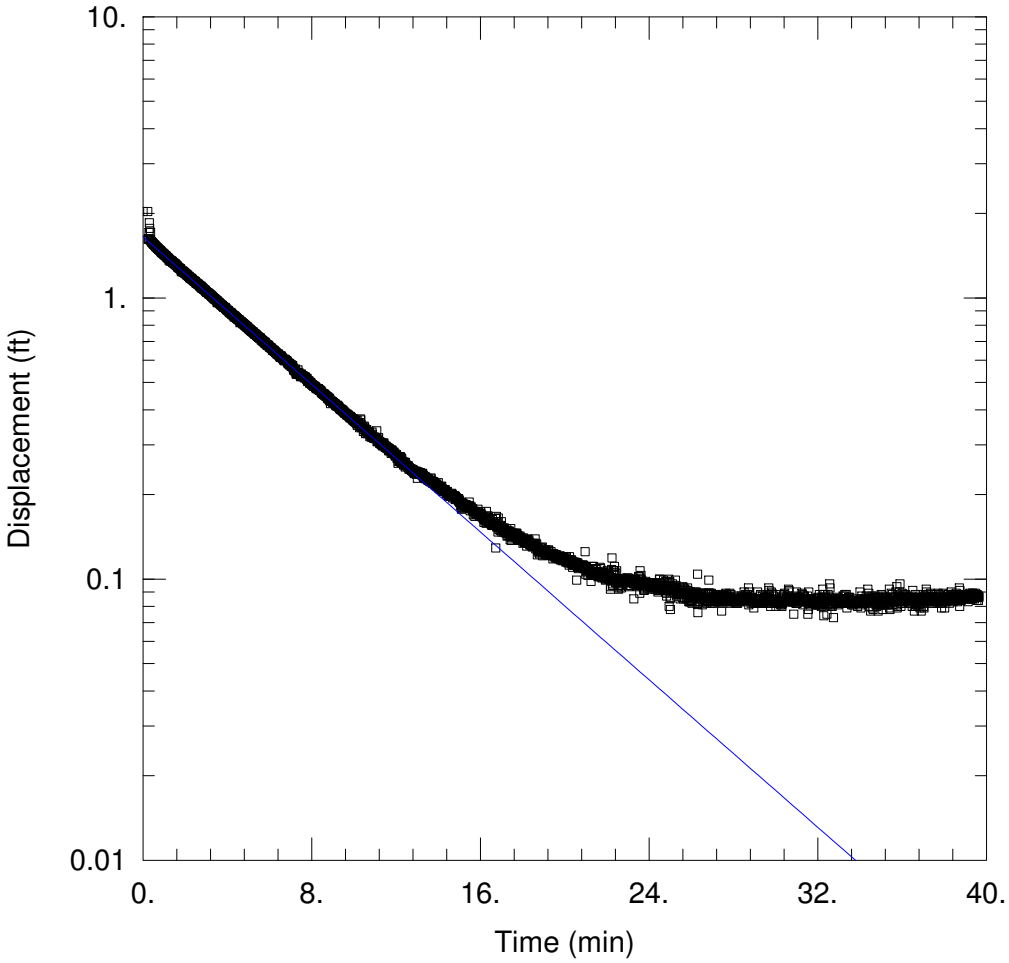
Saturated Thickness: 21. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-11D)

Initial Displacement: -0.771 ft
Total Well Penetration Depth: 21. ft
Casing Radius: 0.083 ft
Static Water Column Height: 11.17 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.0001381 cm/sec
y0 = -0.8692 ft



RISING

Data Set: P:\...\MW-14D-RISING.aqt
Date: 07/25/07 Time: 07:53:27

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-14D
Test Date: 1/22/07

AQUIFER DATA

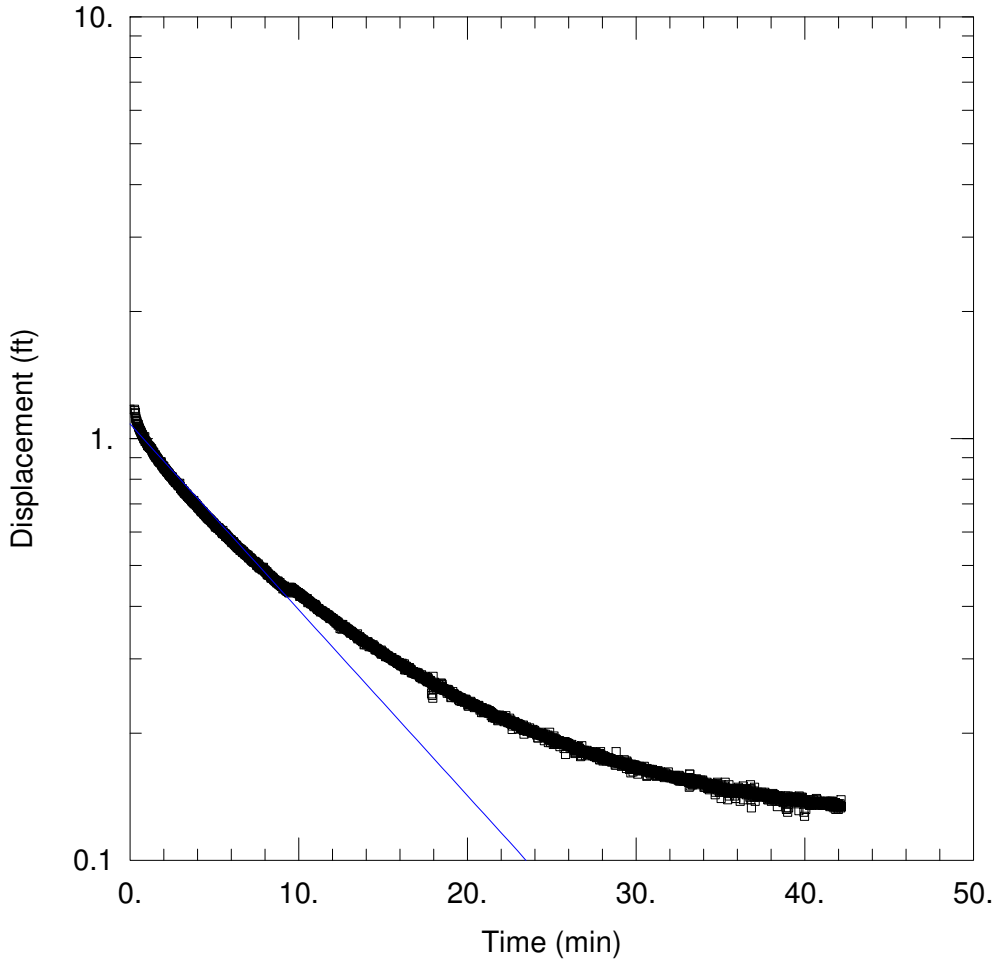
Saturated Thickness: 16. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-14D)

Initial Displacement: 2.028 ft
Total Well Penetration Depth: 16. ft
Casing Radius: 0.083 ft
Static Water Column Height: 43.34 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.000145 cm/sec
y0 = 1.648 ft



RISING

Data Set: P:\...\MW-16D-RISING.aqt
Date: 07/25/07 Time: 08:37:13

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-16D
Test Date: 1/22/07

AQUIFER DATA

Saturated Thickness: 23. ft
Anisotropy Ratio (Kz/Kr): 1.

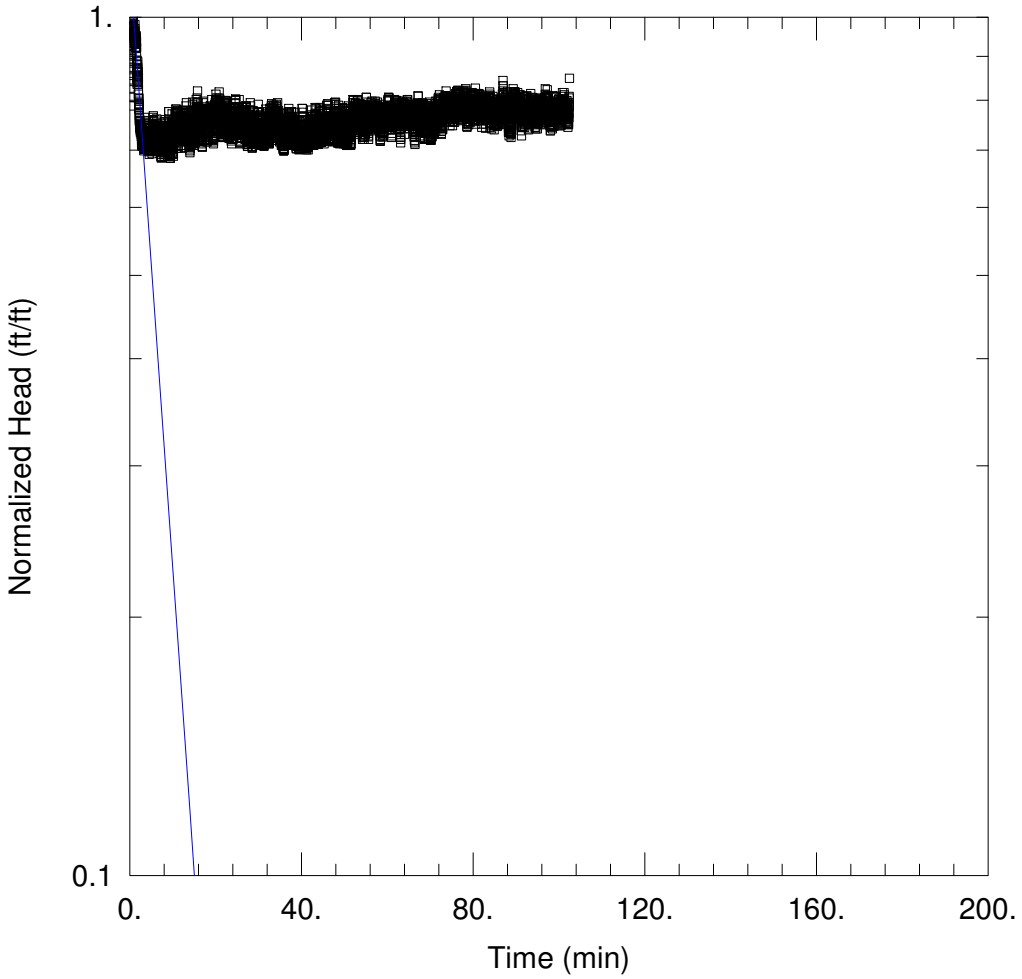
WELL DATA (MW-16D)

Initial Displacement: 1.172 ft
Total Well Penetration Depth: 23. ft
Casing Radius: 0.083 ft
Static Water Column Height: 50.26 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev

K = 9.734E-5 cm/sec
y0 = 1.082 ft



RISING

Data Set: P:\...\MW-17D-RISING.aqt
Date: 07/25/07 Time: 07:58:42

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-17D

AQUIFER DATA

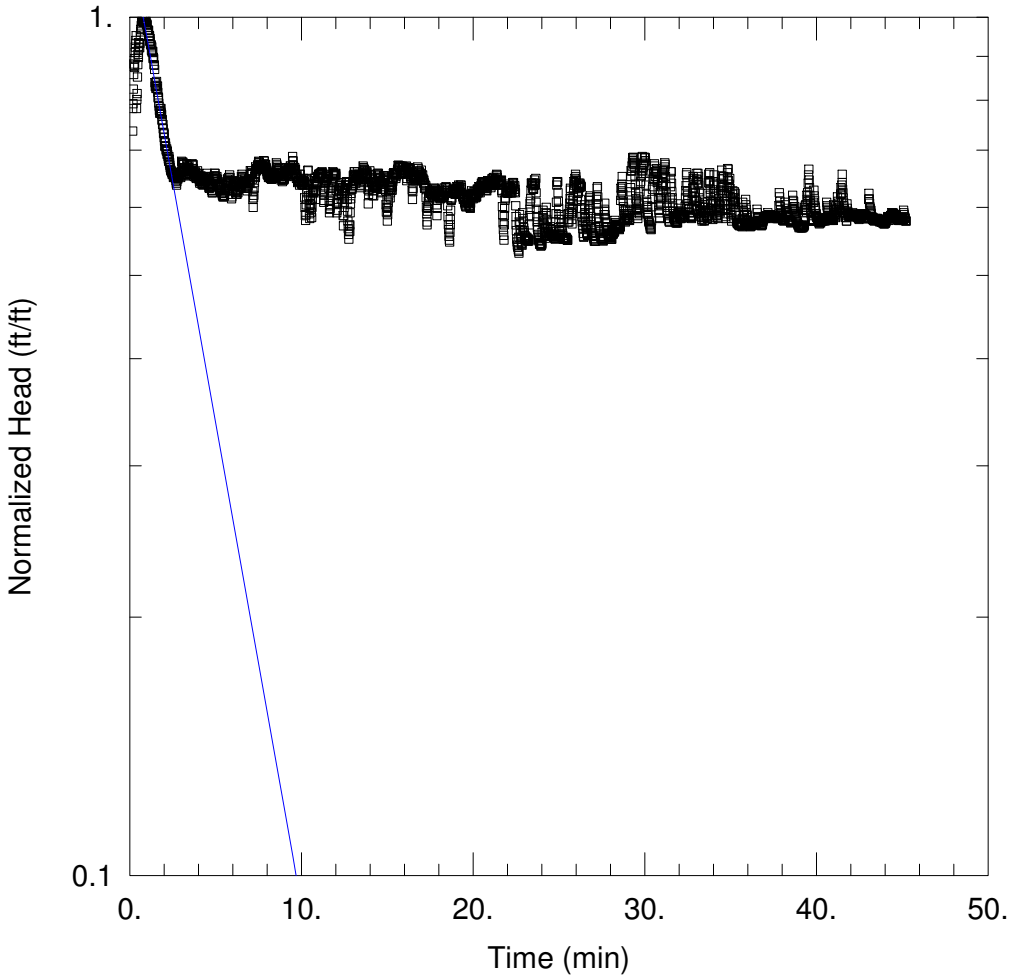
Saturated Thickness: 12. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-17D)

Initial Displacement: -0.594 ft
Total Well Penetration Depth: 12. ft
Casing Radius: 0.083 ft
Static Water Column Height: 12.01 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.0001561 cm/sec
y0 = -0.6897 ft



RISING

Data Set: P:\...\MW-18D-RISING.aqt
Date: 07/25/07 Time: 08:00:38

PROJECT INFORMATION

Company: Brown and Caldwell
Client: LCP
Project: 131369.003
Location: Linden. NJ
Test Date: 2/8/07

AQUIFER DATA

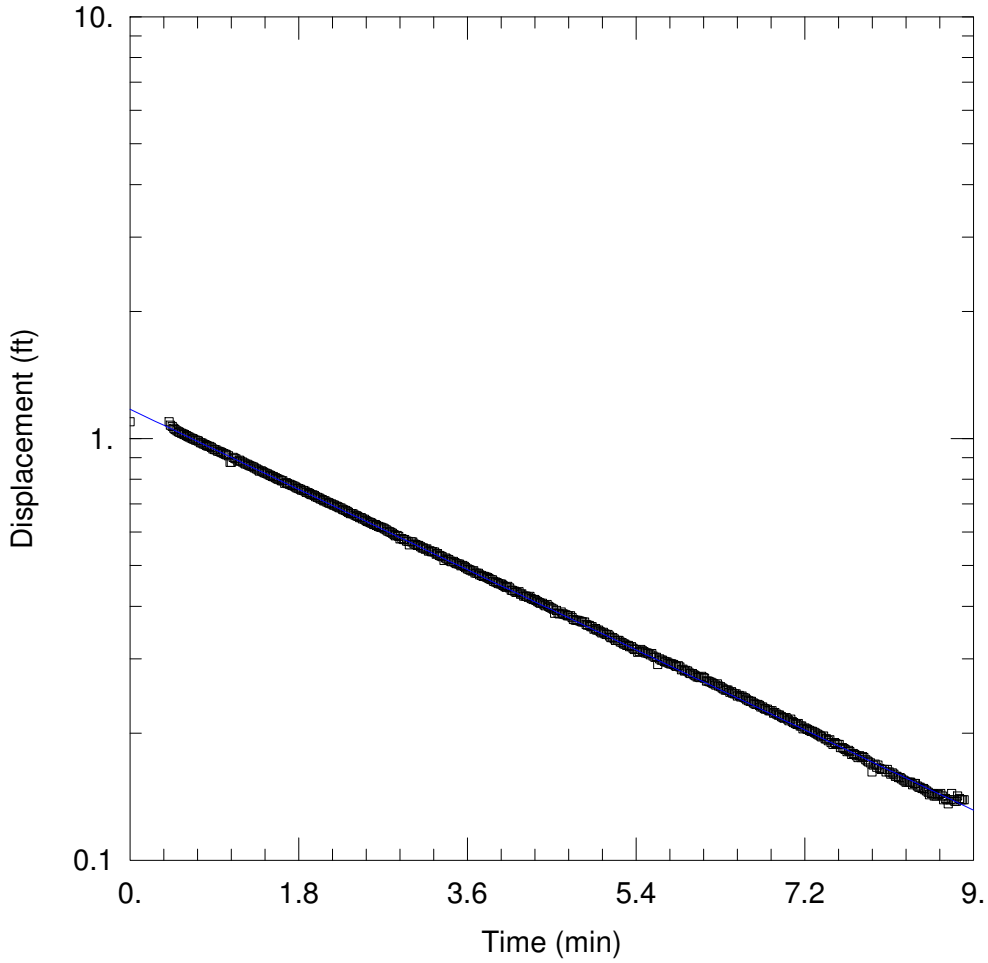
Saturated Thickness: 14. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-18D)

Initial Displacement: -0.695 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.083 ft
Static Water Column Height: 13.25 ft
Screen Length: 1. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.001129 cm/sec
y0 = -0.8526 ft



RISING

Data Set: P:\...\MW-20D-RISING.aqt
Date: 07/25/07 Time: 08:03:00

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-20D
Test Date: 1/22/07

AQUIFER DATA

Saturated Thickness: 20. ft
Anisotropy Ratio (Kz/Kr): 1.

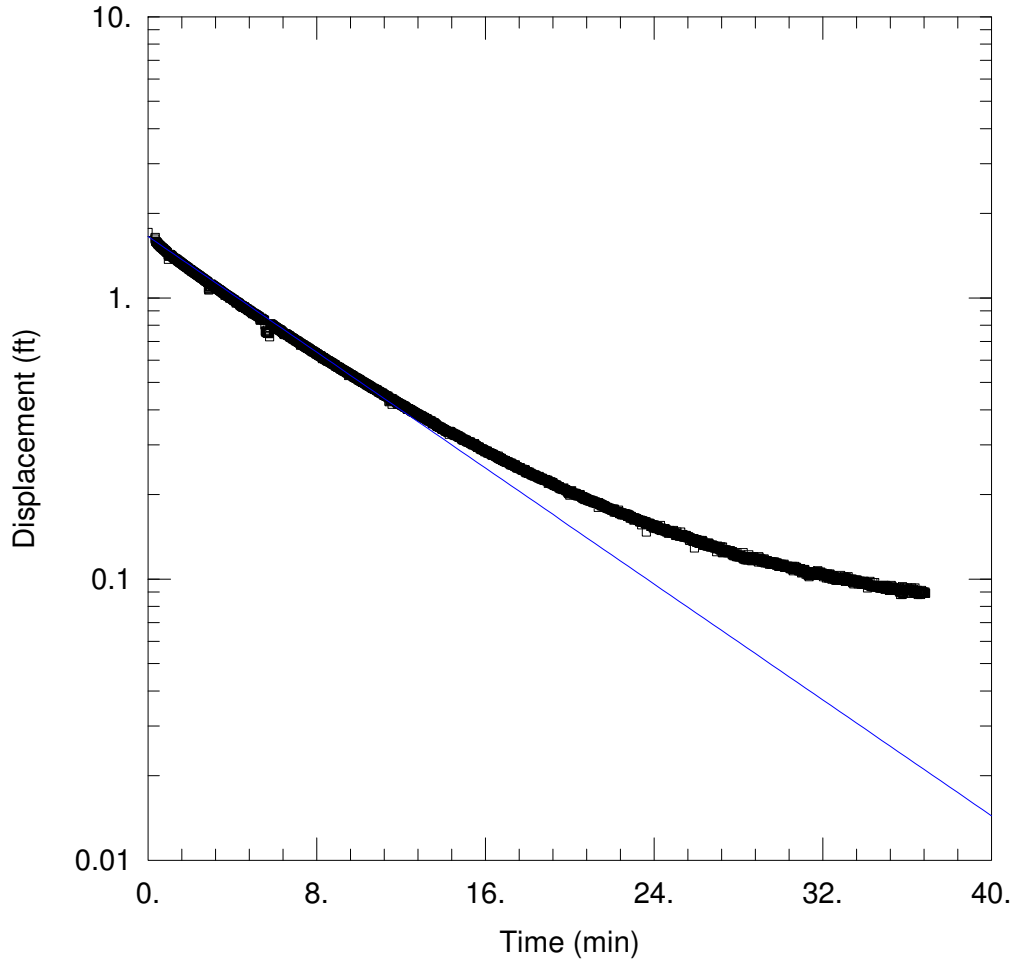
WELL DATA (MW-20D)

Initial Displacement: 1.095 ft
Total Well Penetration Depth: 20. ft
Casing Radius: 0.083 ft
Static Water Column Height: 41.44 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev

K = 0.0002333 cm/sec
y0 = 1.173 ft



RISING

Data Set: P:\...\MW-21D-RISING.aqt
Date: 07/25/07 Time: 08:04:48

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-21D
Test Date: 1/22/07

AQUIFER DATA

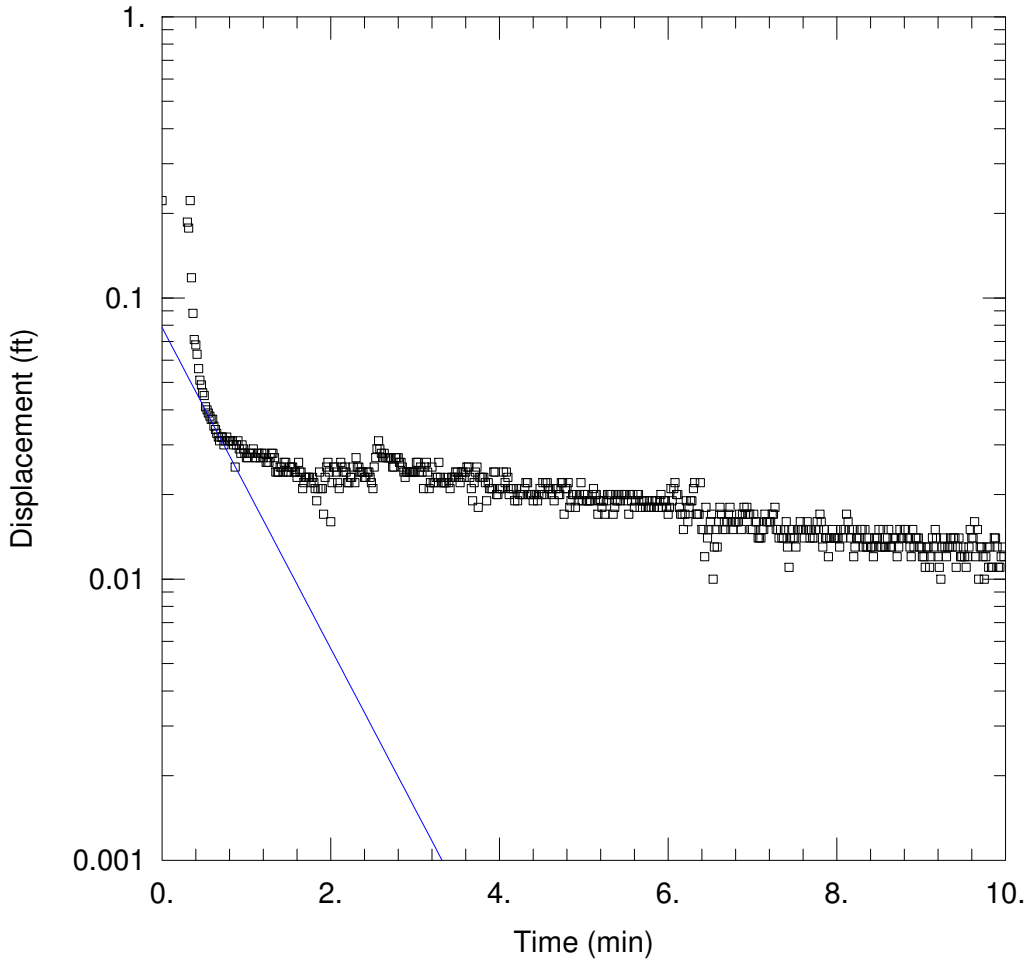
Saturated Thickness: 19. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-21D)

Initial Displacement: 1.711 ft
Total Well Penetration Depth: 19. ft
Casing Radius: 0.083 ft
Static Water Column Height: 53.03 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev
K = 0.0001138 cm/sec
y0 = 1.655 ft



RISING

Data Set: P:\...\MW-21S-RISING.aqt
Date: 07/25/07 Time: 08:08:32

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-21S
Test Date: 1/29/07

AQUIFER DATA

Saturated Thickness: 1.63 ft
Anisotropy Ratio (Kz/Kr): 1.

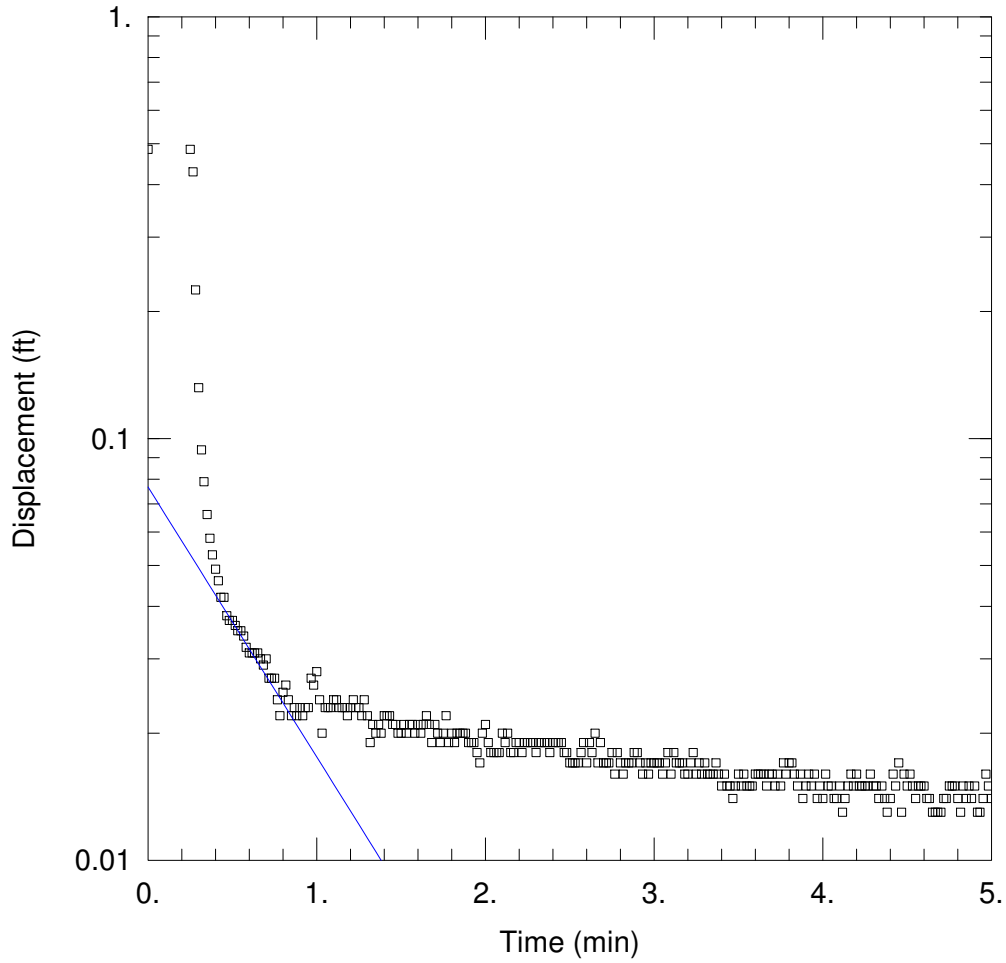
WELL DATA (MW-21S)

Initial Displacement: 0.222 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.083 ft
Static Water Column Height: 1.63 ft
Screen Length: 5. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.002437 cm/sec
y0 = 0.07844 ft



RISING

Data Set: P:\...\MW-22S-RISING.aqt
Date: 07/25/07 Time: 08:11:06

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-22S
Test Date: 1/29/07

AQUIFER DATA

Saturated Thickness: 2.4 ft
Anisotropy Ratio (Kz/Kr): 1.

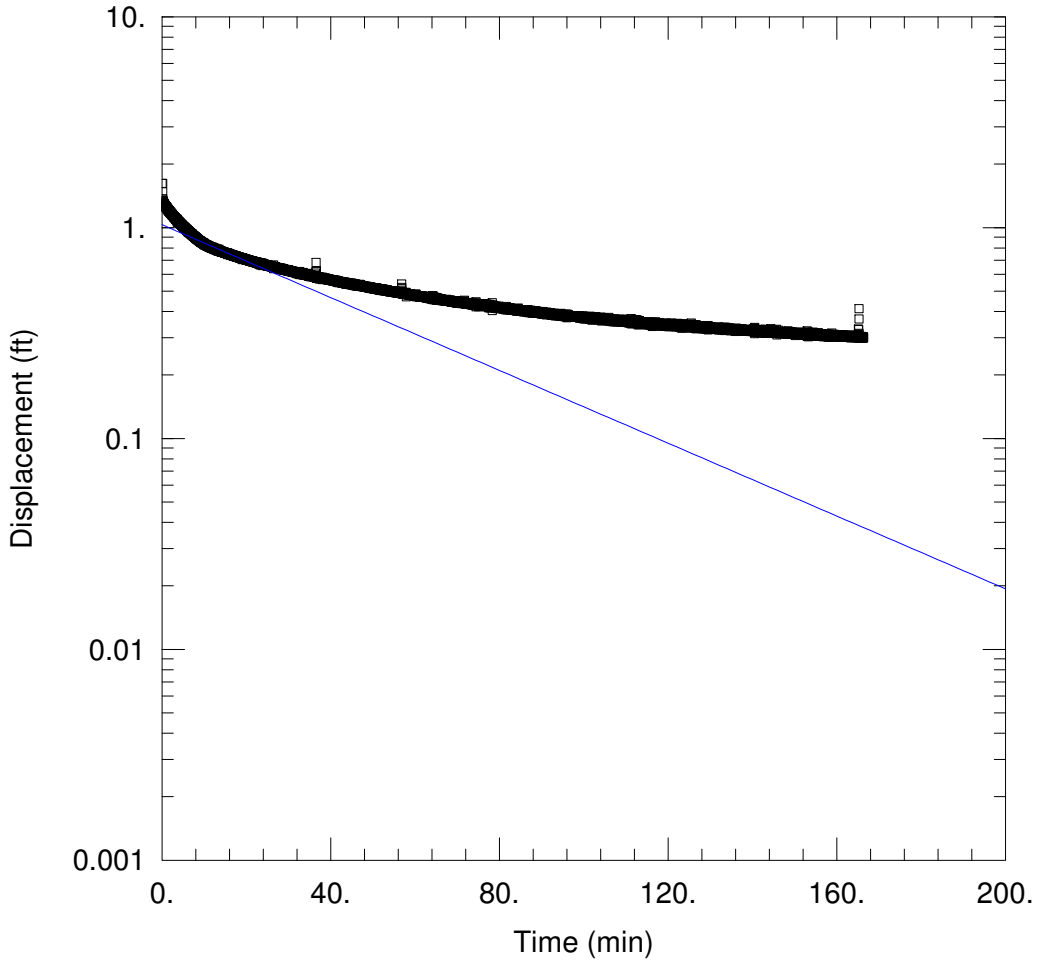
WELL DATA (MW-22S)

Initial Displacement: 0.485 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.083 ft
Static Water Column Height: 2.4 ft
Screen Length: 5. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.002733 cm/sec
y0 = 0.07669 ft



RISING

Data Set: P:\...\MW-23S-RISING.aqt
Date: 07/25/07 Time: 08:12:12

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-23S
Test Date: 1/29/07

AQUIFER DATA

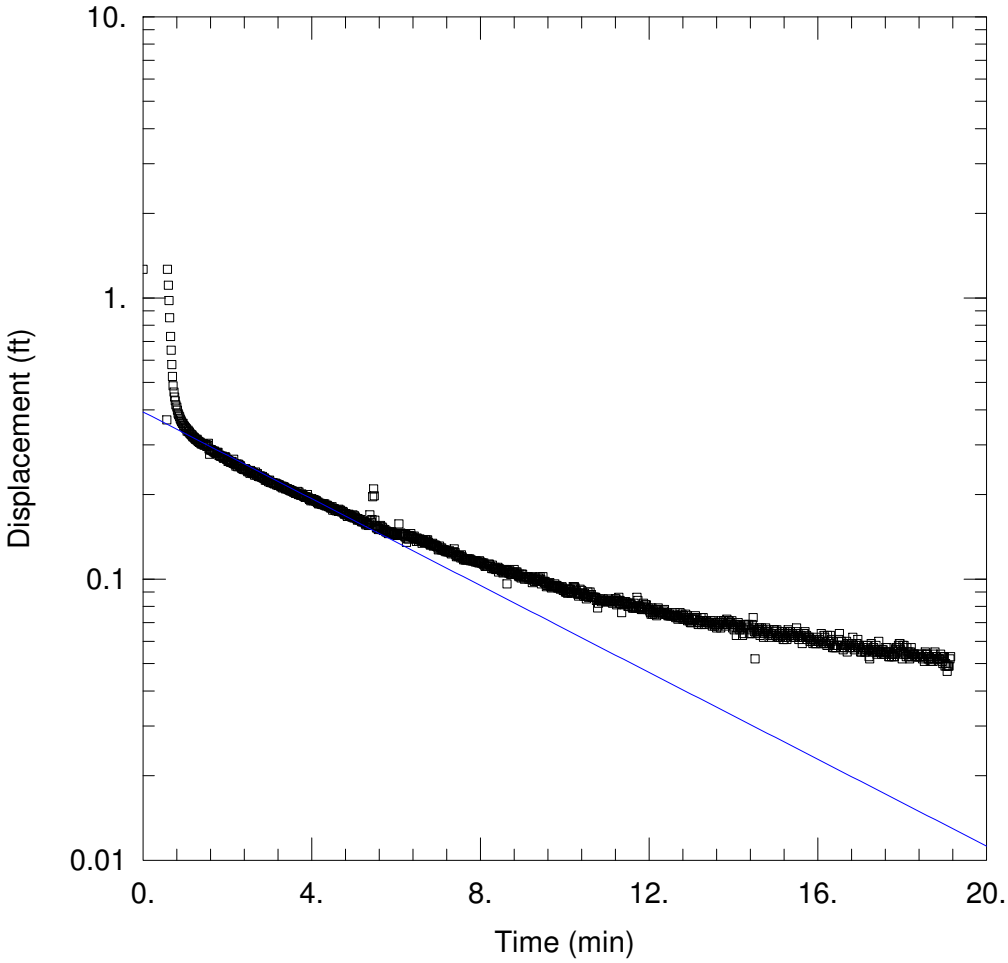
Saturated Thickness: 6.38 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-23S)

Initial Displacement: 1.623 ft
Total Well Penetration Depth: 7. ft
Casing Radius: 0.083 ft
Static Water Column Height: 6.38 ft
Screen Length: 7. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 2.633E-5 cm/sec
y0 = 1.031 ft



RISING

Data Set: P:\...\MW-24S-RISING.aqt
Date: 07/25/07 Time: 08:13:33

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-24S
Test Date: 1/29/07

AQUIFER DATA

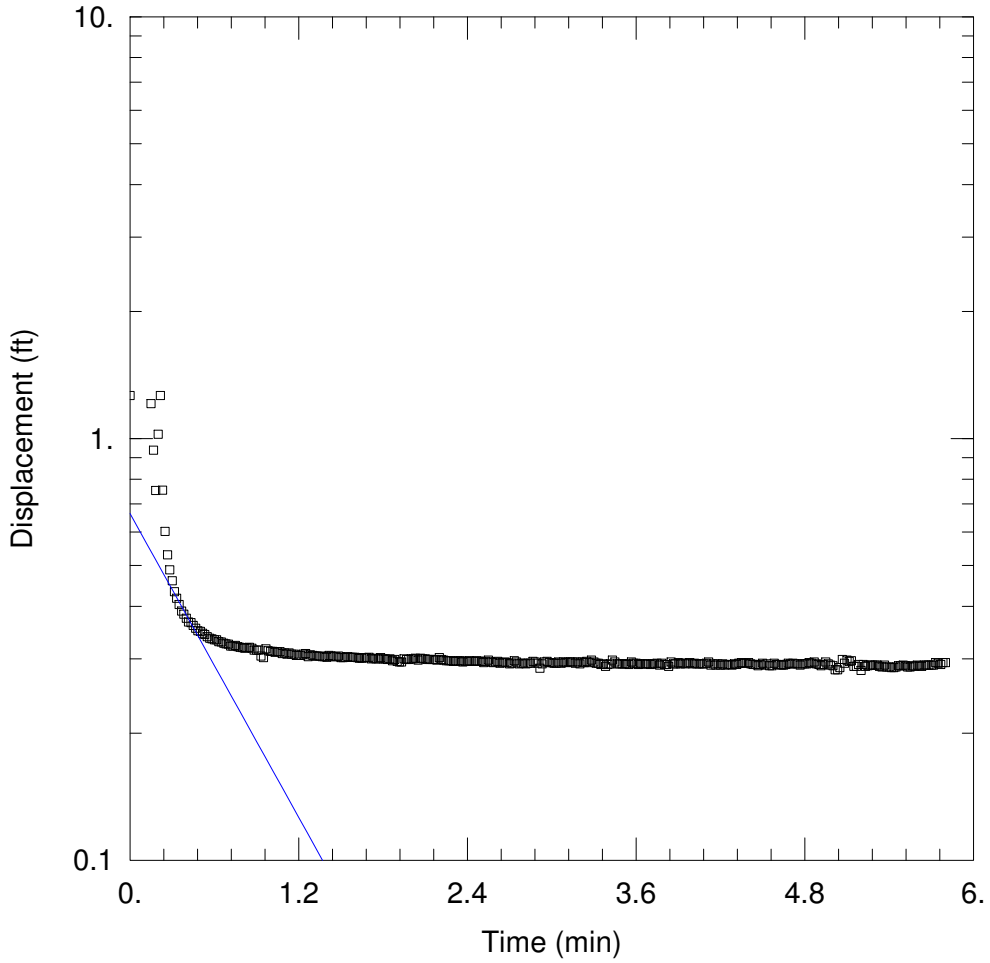
Saturated Thickness: 7.94 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-24S)

Initial Displacement: 1.263 ft
Total Well Penetration Depth: 10. ft
Casing Radius: 0.083 ft
Static Water Column Height: 7.94 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.0001648 cm/sec
y0 = 0.393 ft



RISING

Data Set: P:\...\MW-25D-RISING.aqt
Date: 07/25/07 Time: 08:06:03

PROJECT INFORMATION

Company: Brown and Caldwell
Client: ISP-ESI
Project: 131369.107
Location: LCP Superfund
Test Well: MW-25D
Test Date: 1/22/07

AQUIFER DATA

Saturated Thickness: 16. ft
Anisotropy Ratio (Kz/Kr): 1.

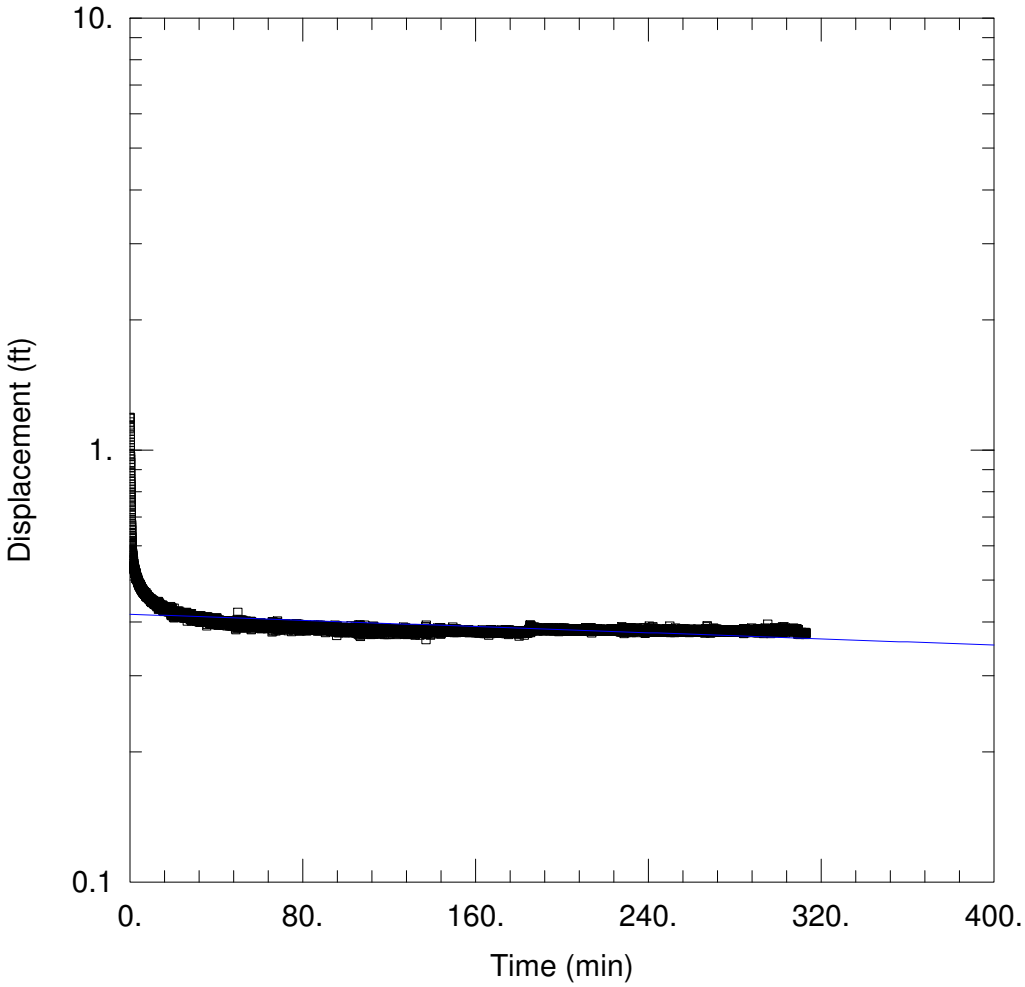
WELL DATA (MW-25D)

Initial Displacement: 1.265 ft
Total Well Penetration Depth: 16. ft
Casing Radius: 0.083 ft
Static Water Column Height: 47.2 ft
Screen Length: 10. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined
Solution Method: Hvorslev

K = 0.001326 cm/sec
y0 = 0.663 ft



RISING

Data Set: P:\...\MW-26S-RISING.aqt
Date: 07/19/07 Time: 15:18:58

PROJECT INFORMATION

Company: Brown and Caldwell
Client: LCP
Project: 131369
Location: Linden, NJ

AQUIFER DATA

Saturated Thickness: 0.75 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-26S)

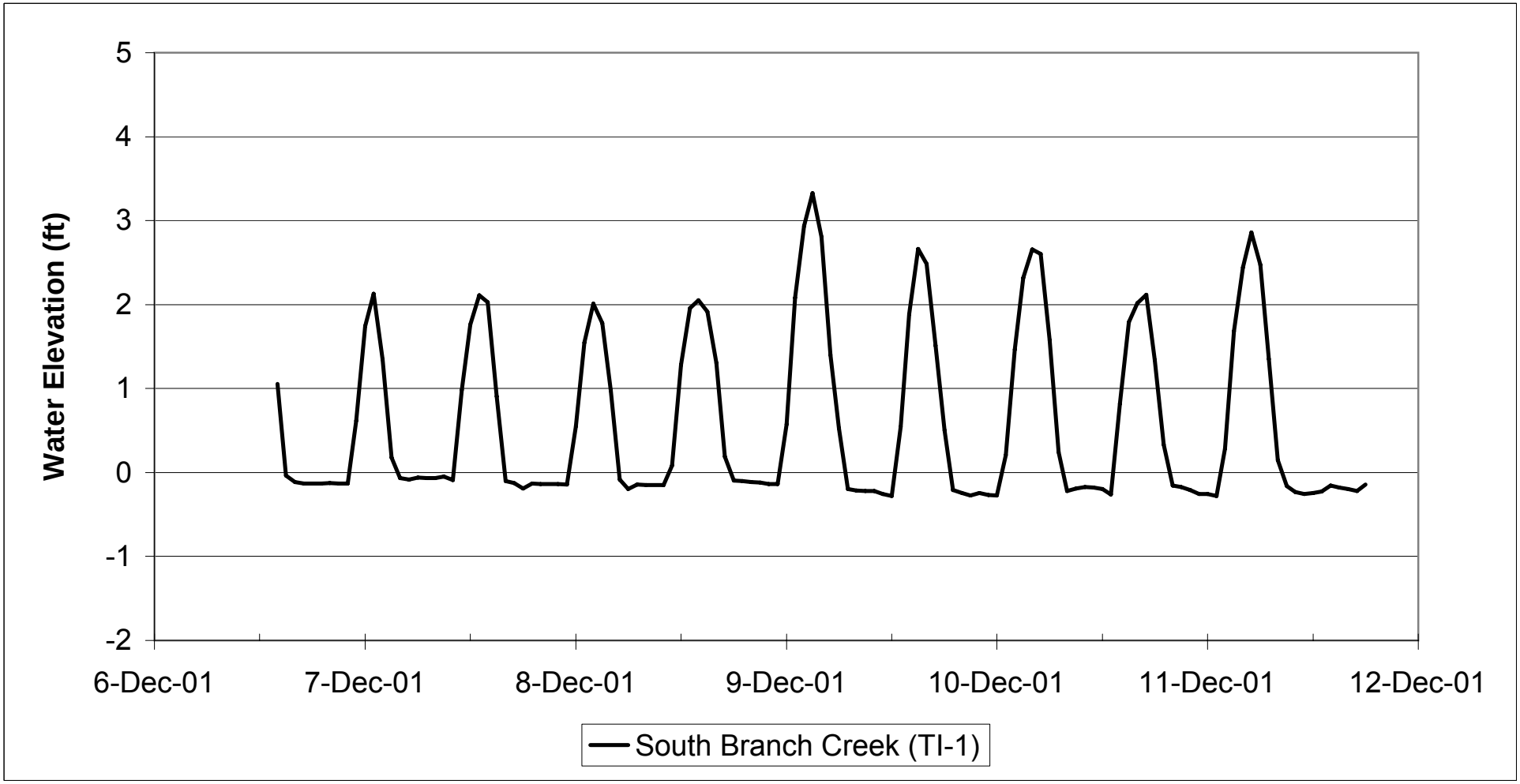
Initial Displacement: 1.189 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.083 ft
Static Water Column Height: 4.05 ft
Screen Length: 5. ft
Well Radius: 0.083 ft
Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.0006591 m/day
y0 = 0.4168 ft

Appendix D-2: Hydrographs

131369



HYDROGRAPH FOR
South Branch Creek (TI-1)

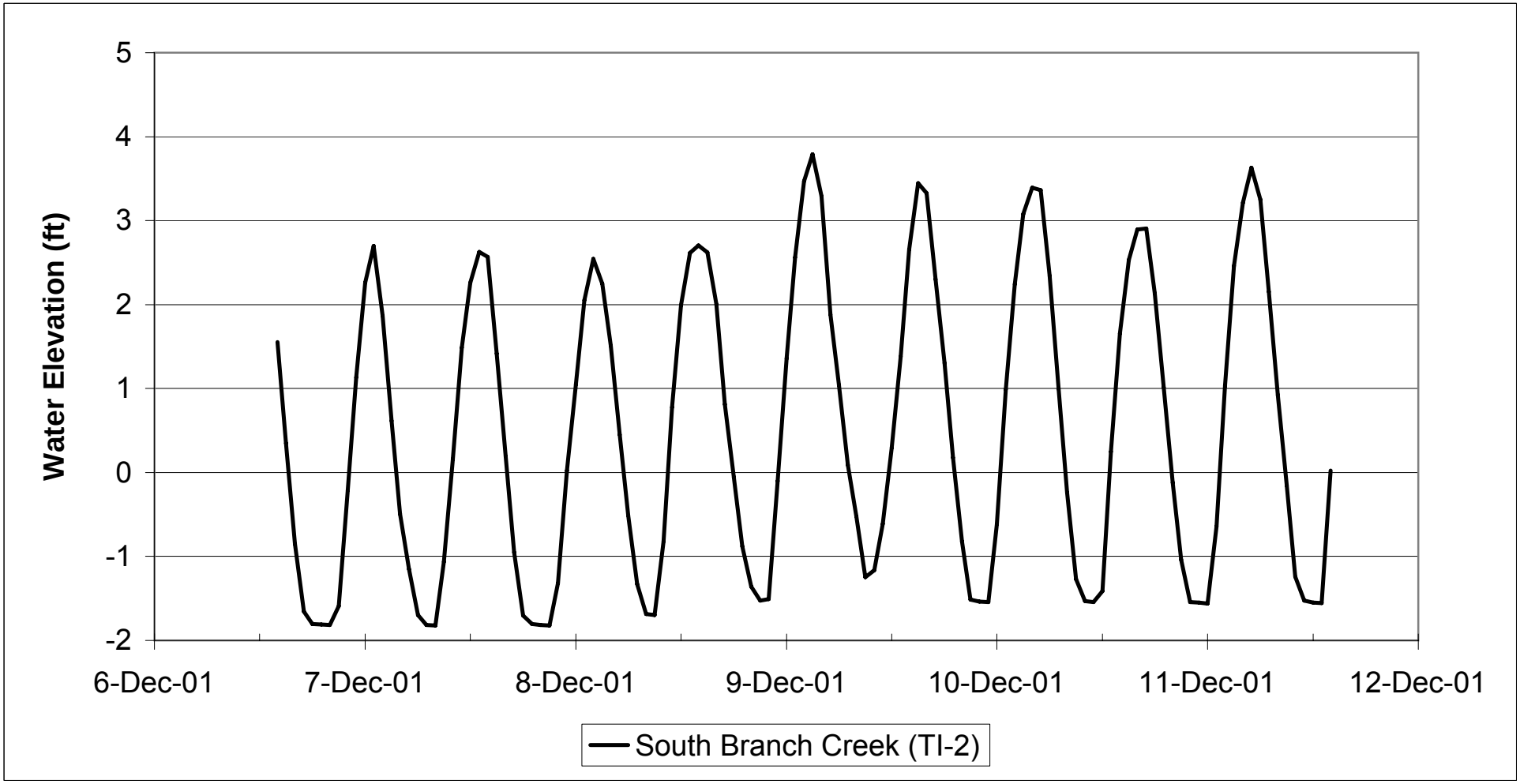
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhI_Hydrograph_.xls\SBC (TI-1)
9/5/2007

131369



HYDROGRAPH FOR
South Branch Creek (TI-2)

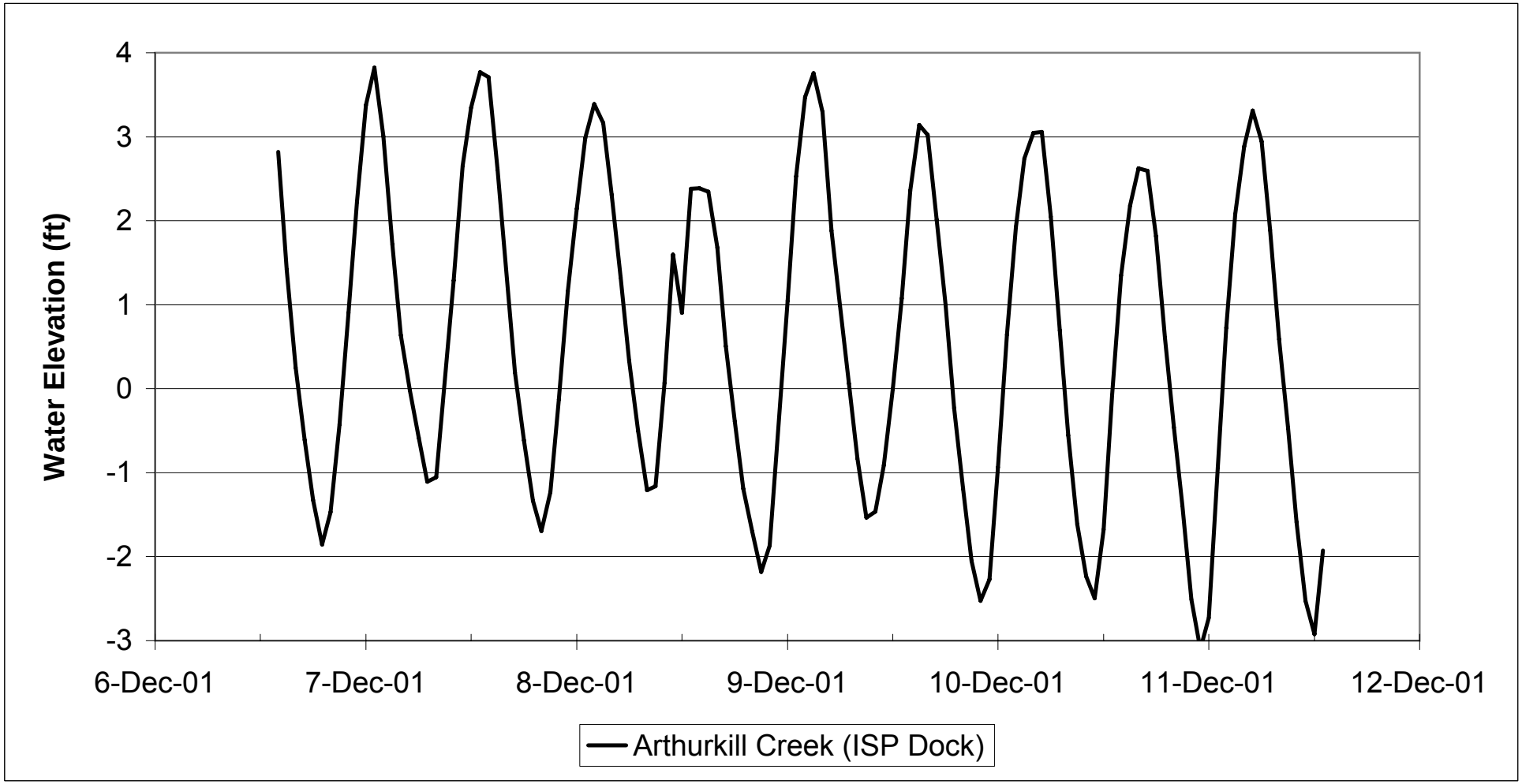
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhI_Hydrograph_.xls\SBC (TI-2)
9/5/2007

131369



HYDROGRAPH FOR
Arthur Kill (ISP Dock)

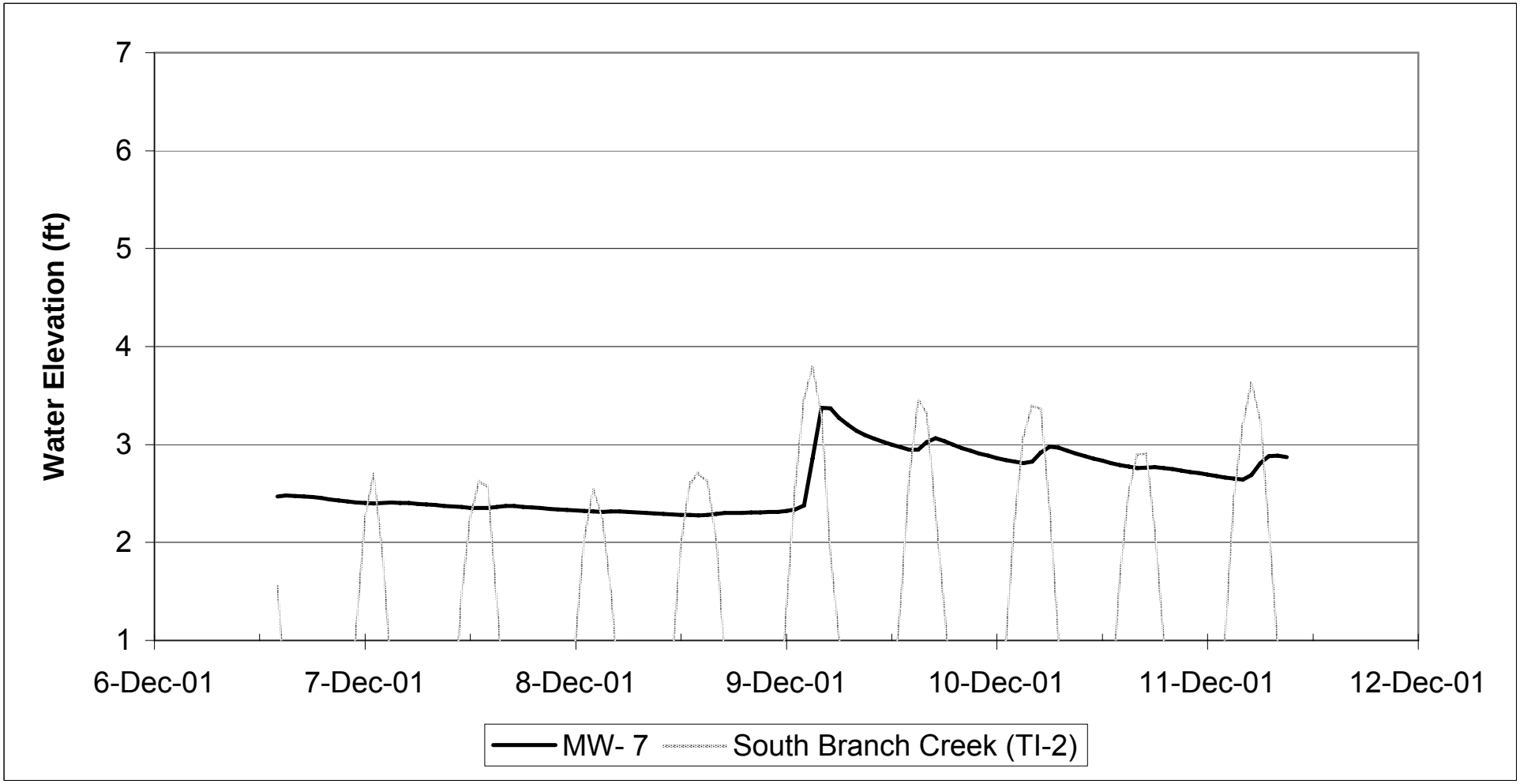
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhI_Hydrograph_.xls\Arthurkill Creek (ISP Dock)
9/5/2007

131369



HYDROGRAPH FOR MW-7

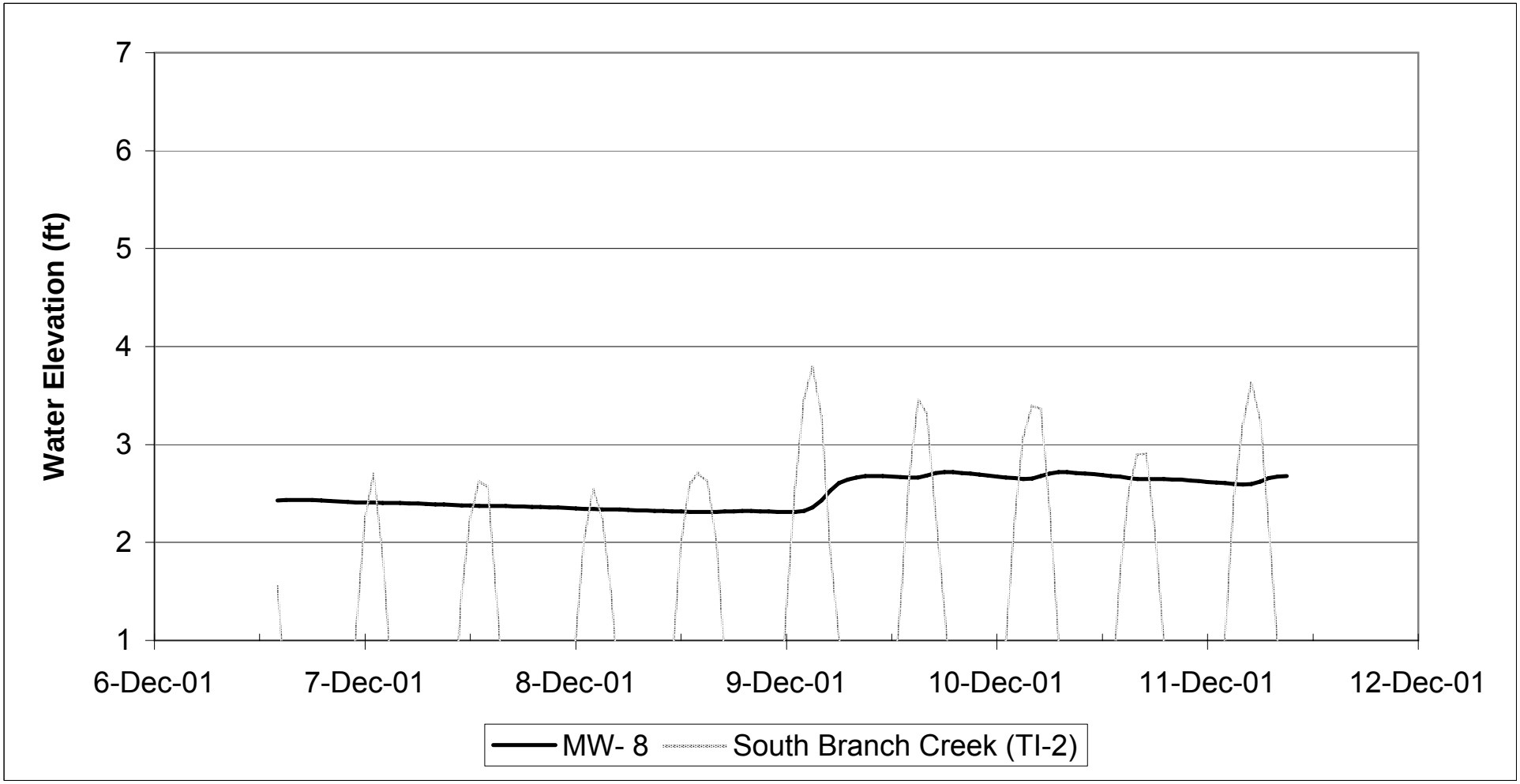
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhI_Hydrograph_.xls\MW-7
9/5/2007

131369



HYDROGRAPH FOR MW-8

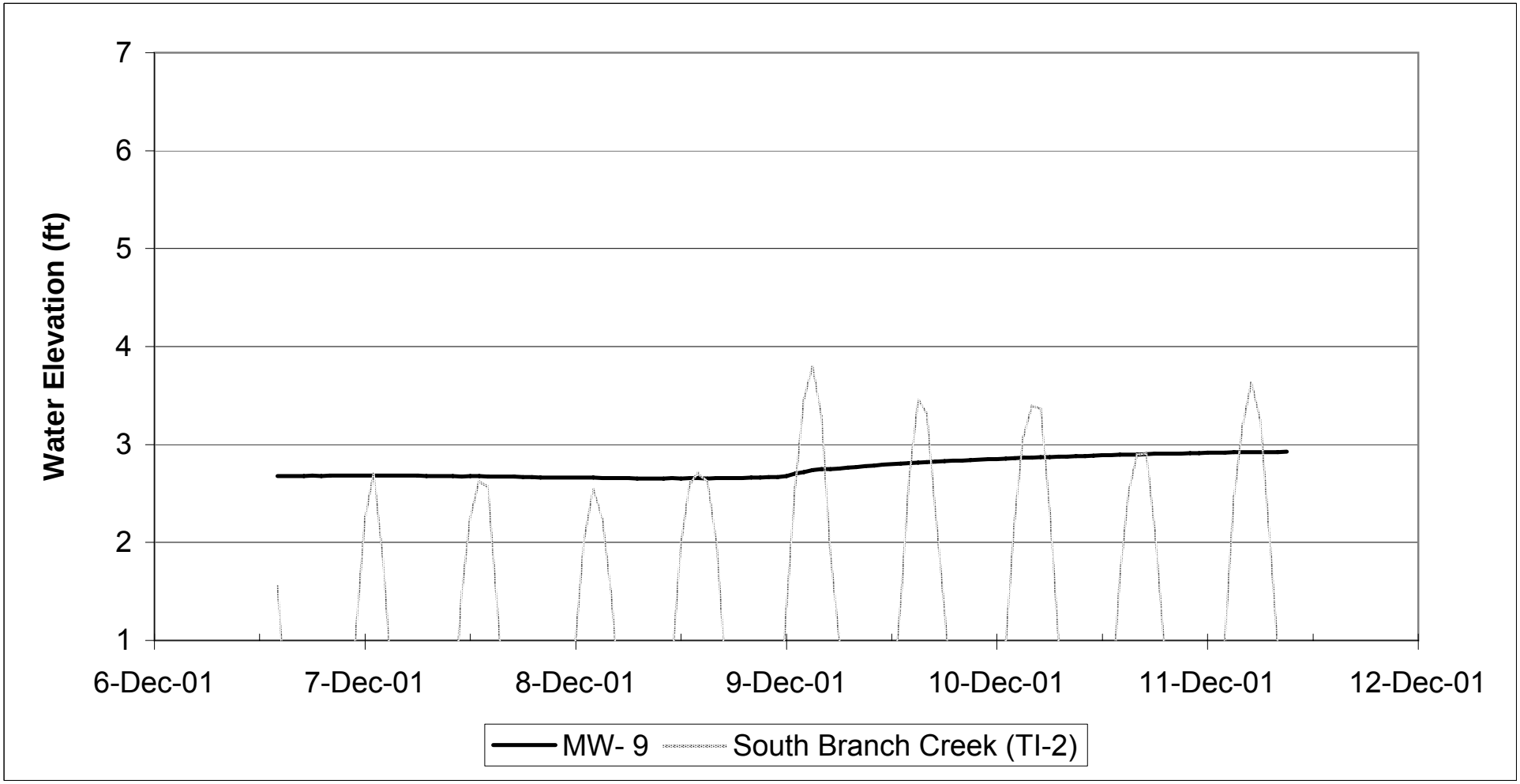
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhI_Hydrograph_.xls\MW-8
9/5/2007

131369



HYDROGRAPH FOR MW-9

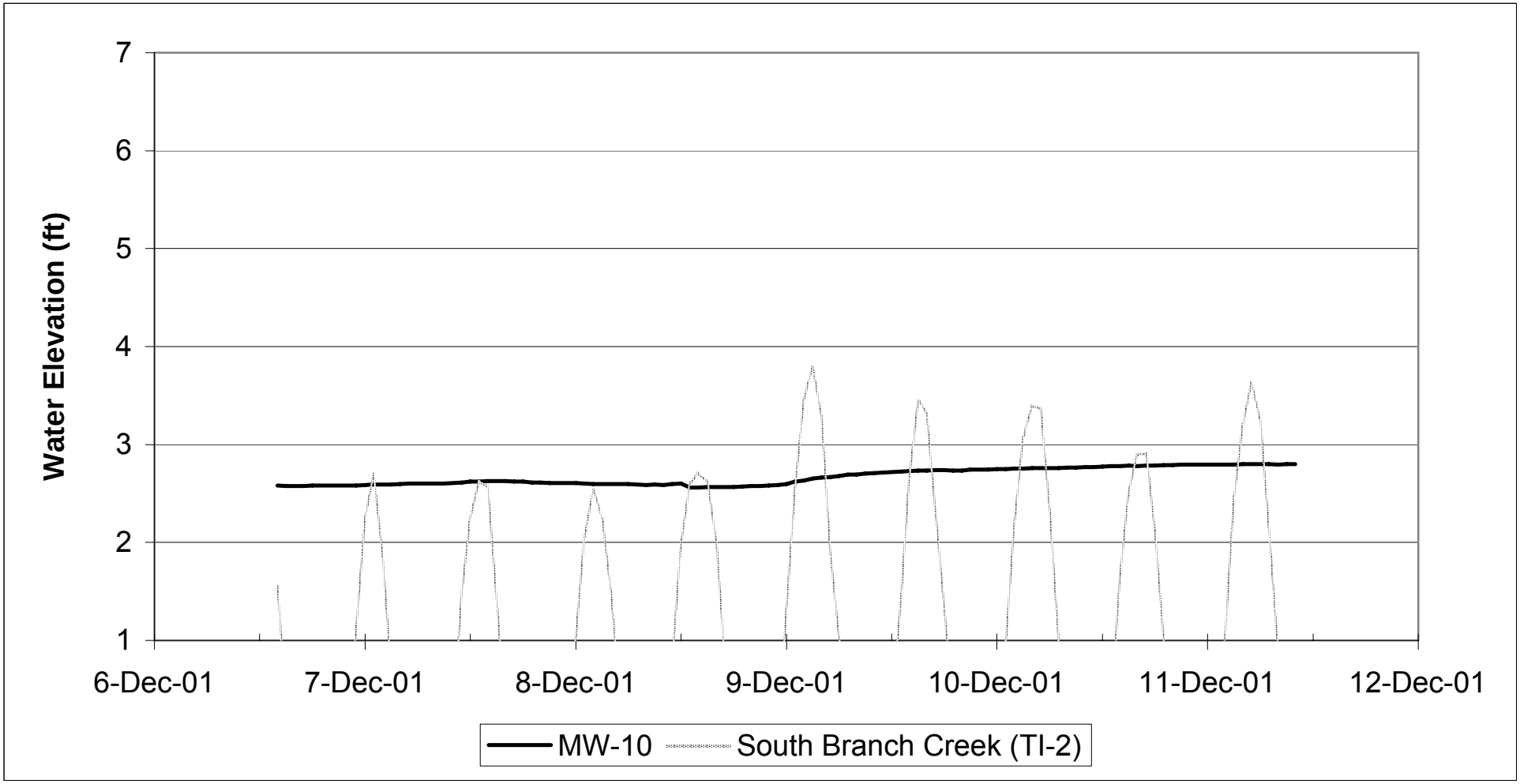
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhI_Hydrograph_.xls\MW-9
9/5/2007

131369



HYDROGRAPH FOR MW-10

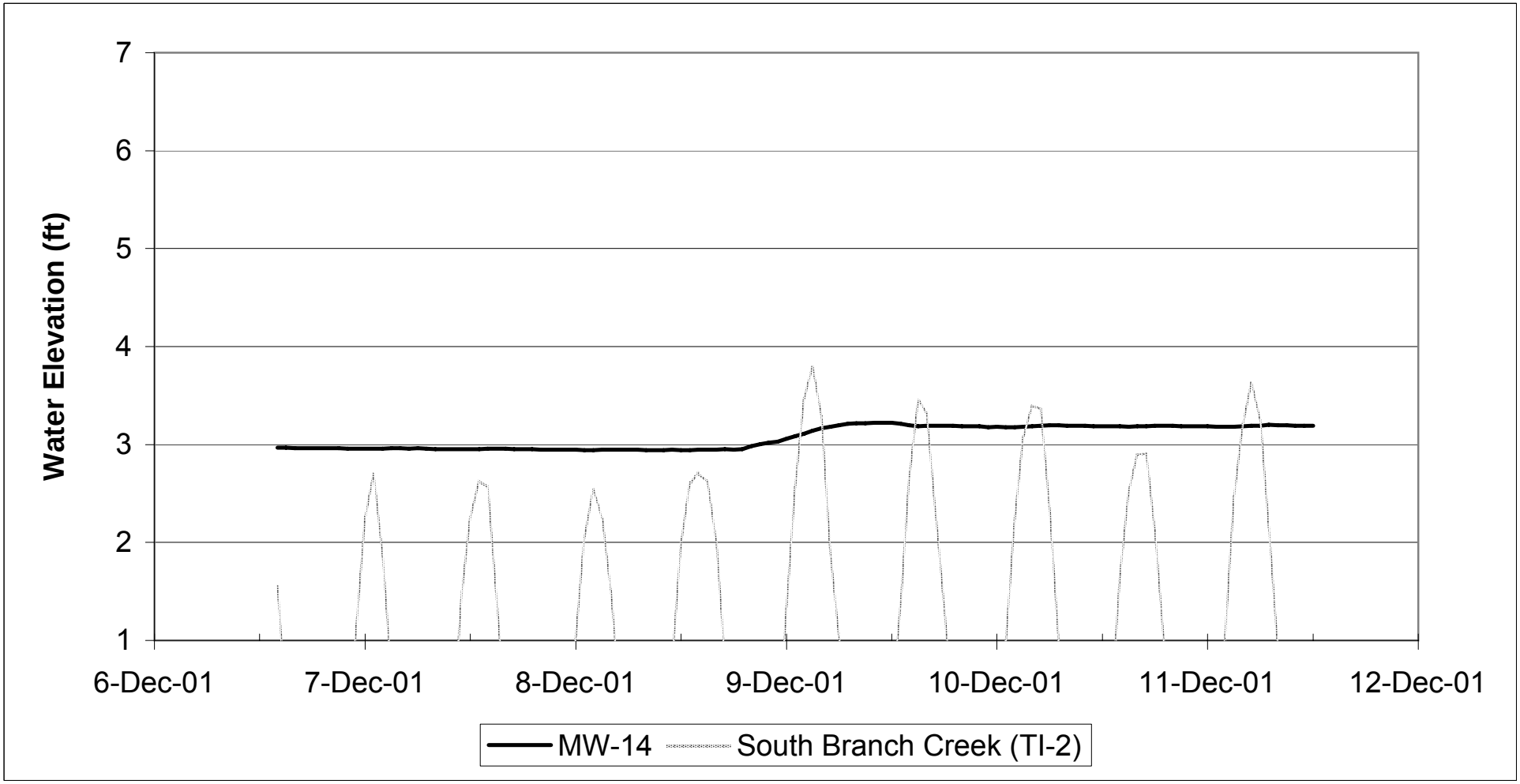
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhI_Hydrograph_.xls\MW-10
9/5/2007

131369



HYDROGRAPH FOR MW-14

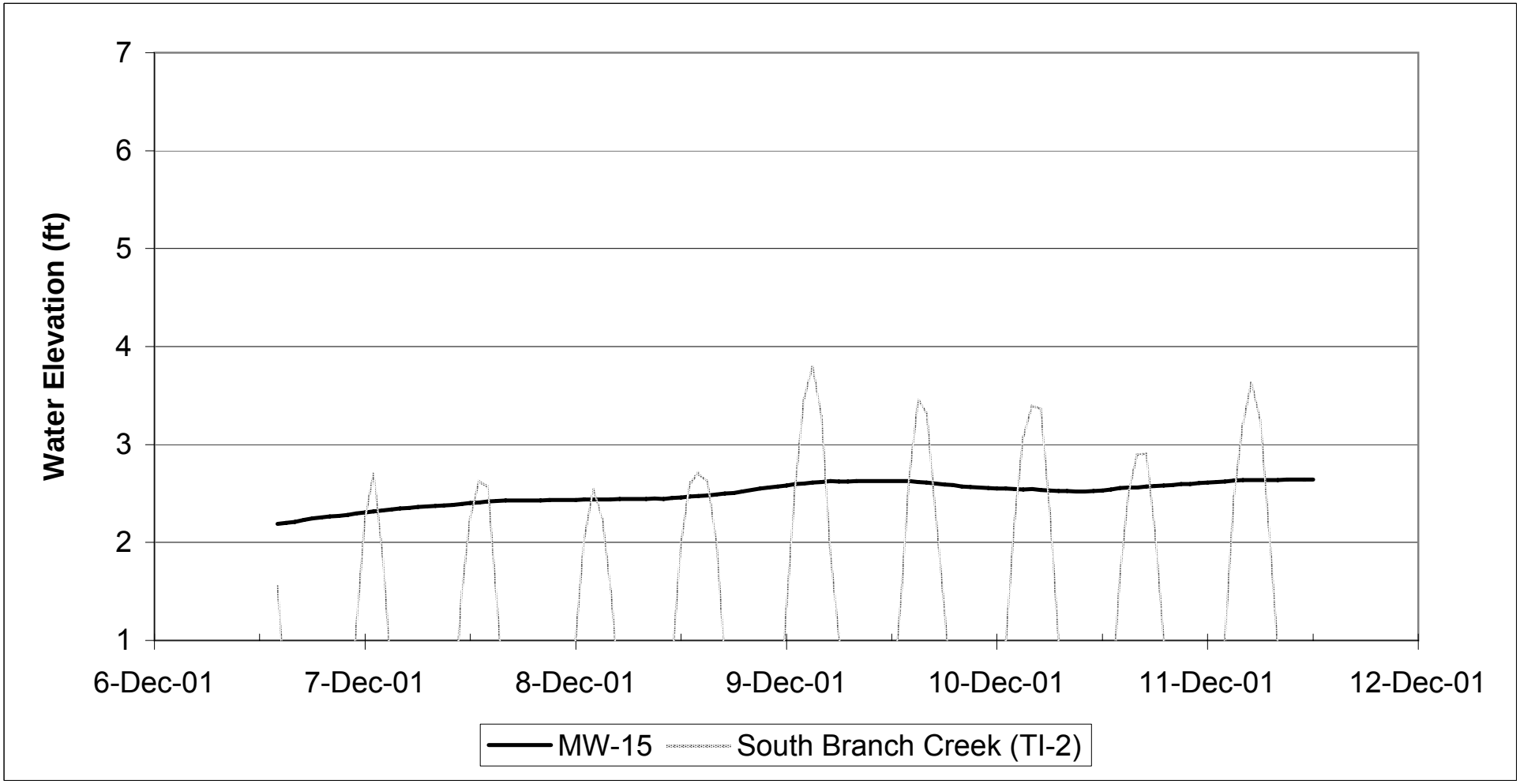
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhI_Hydrograph_.xls\MW-14
9/5/2007

131369



HYDROGRAPH FOR MW-15

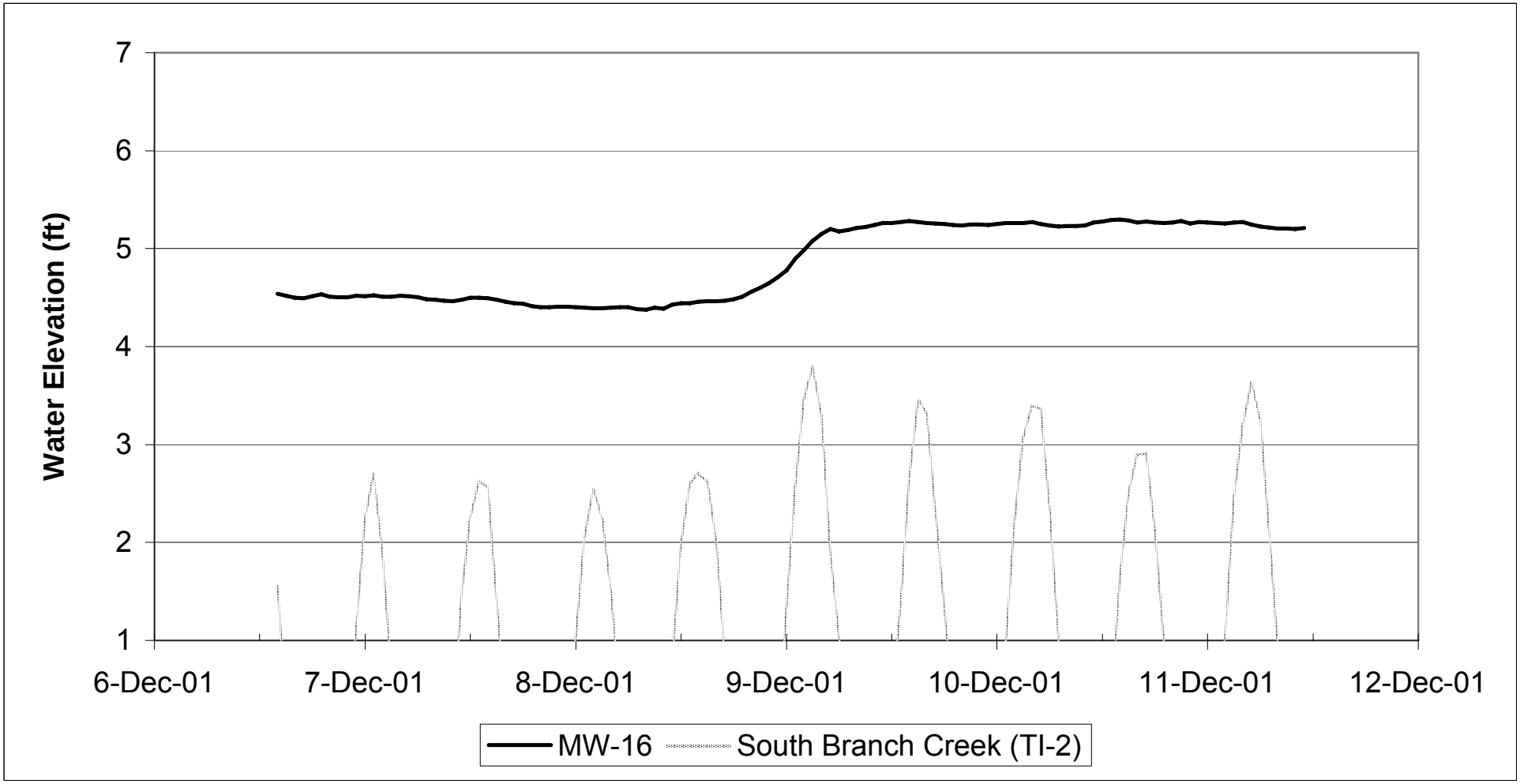
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhI_Hydrograph_.xls\MW-15
9/5/2007

131369



HYDROGRAPH FOR MW-16

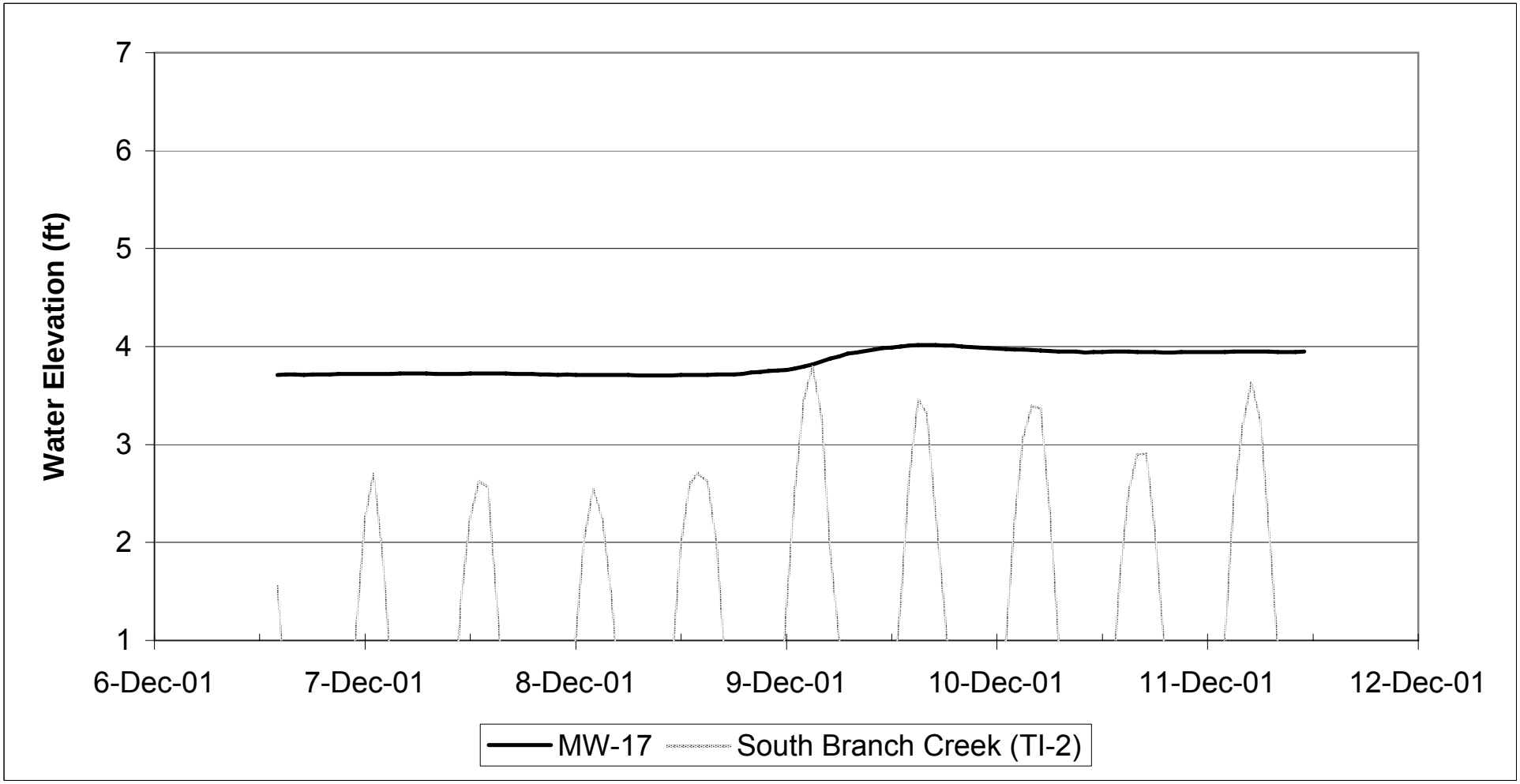
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhI_Hydrograph_.xls\MW-16
9/5/2007

131369



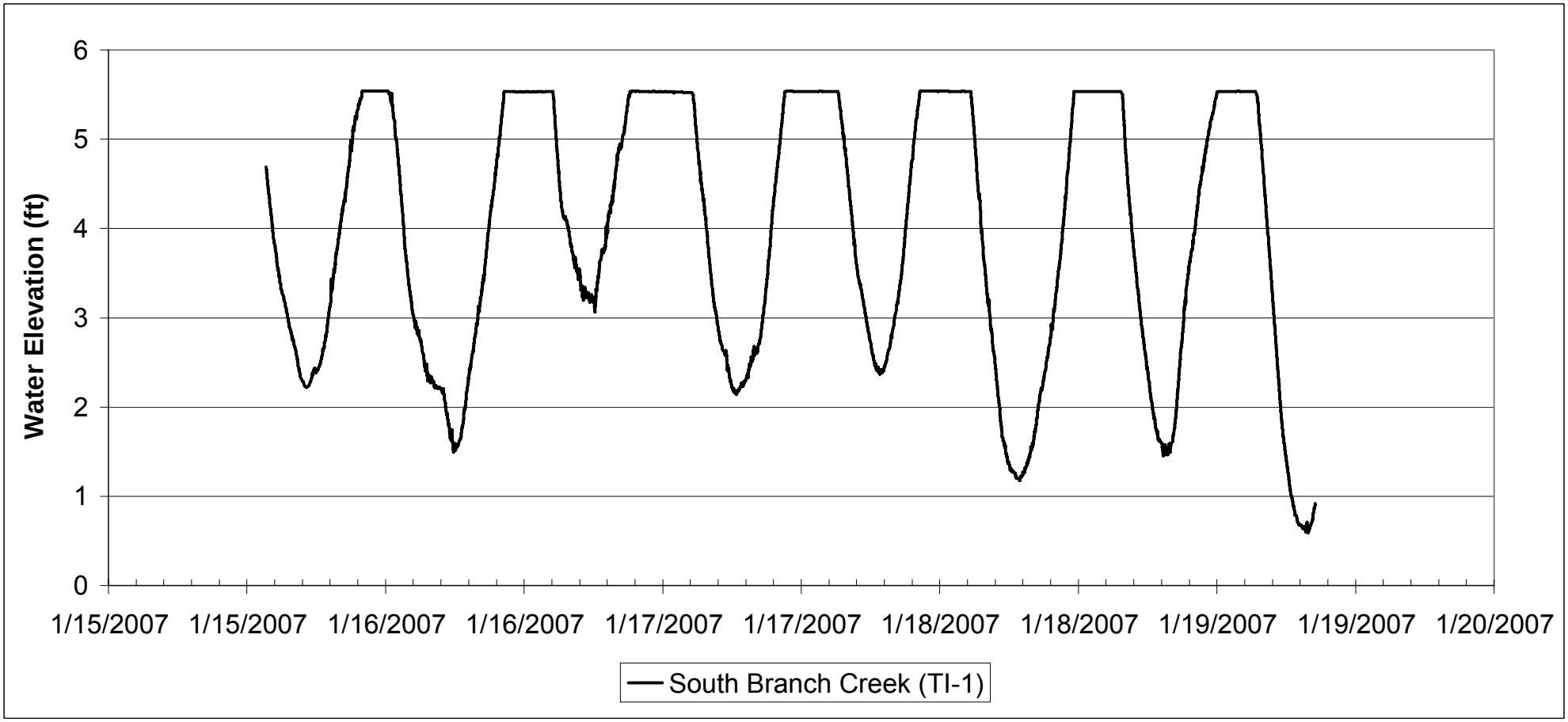
HYDROGRAPH FOR
MW - 17

LCP Inc. Superfund Site
Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhI_Hydrograph_.xls\MW-17
9/5/2007

131369



HYDROGRAPH FOR
South Branch Creek (TI-1)

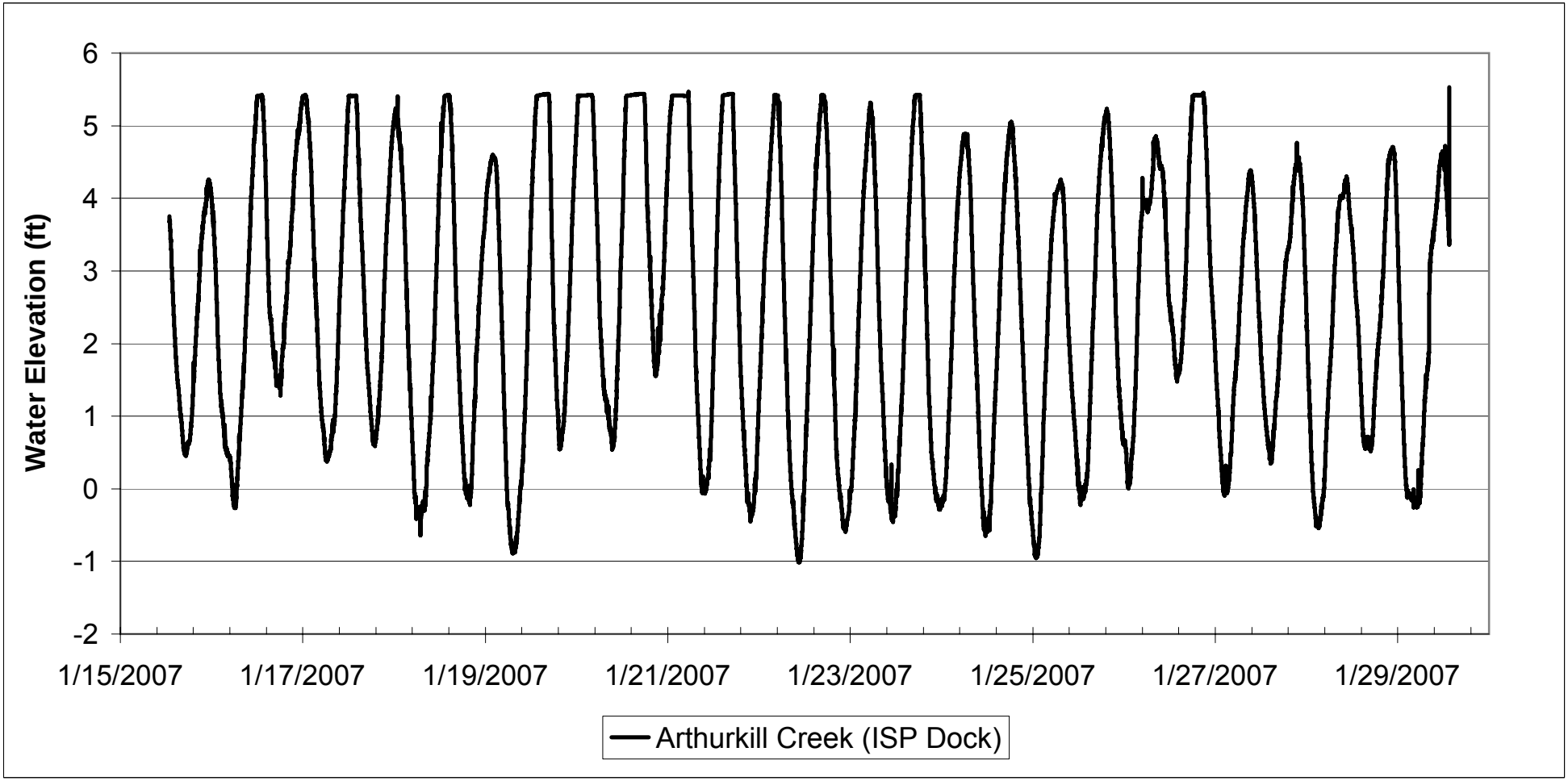
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhII_Hydrograph_.xls\SBC (TI-1)
9/5/2007

131369



HYDROGRAPH FOR
Arthur Kill (ISP Dock)

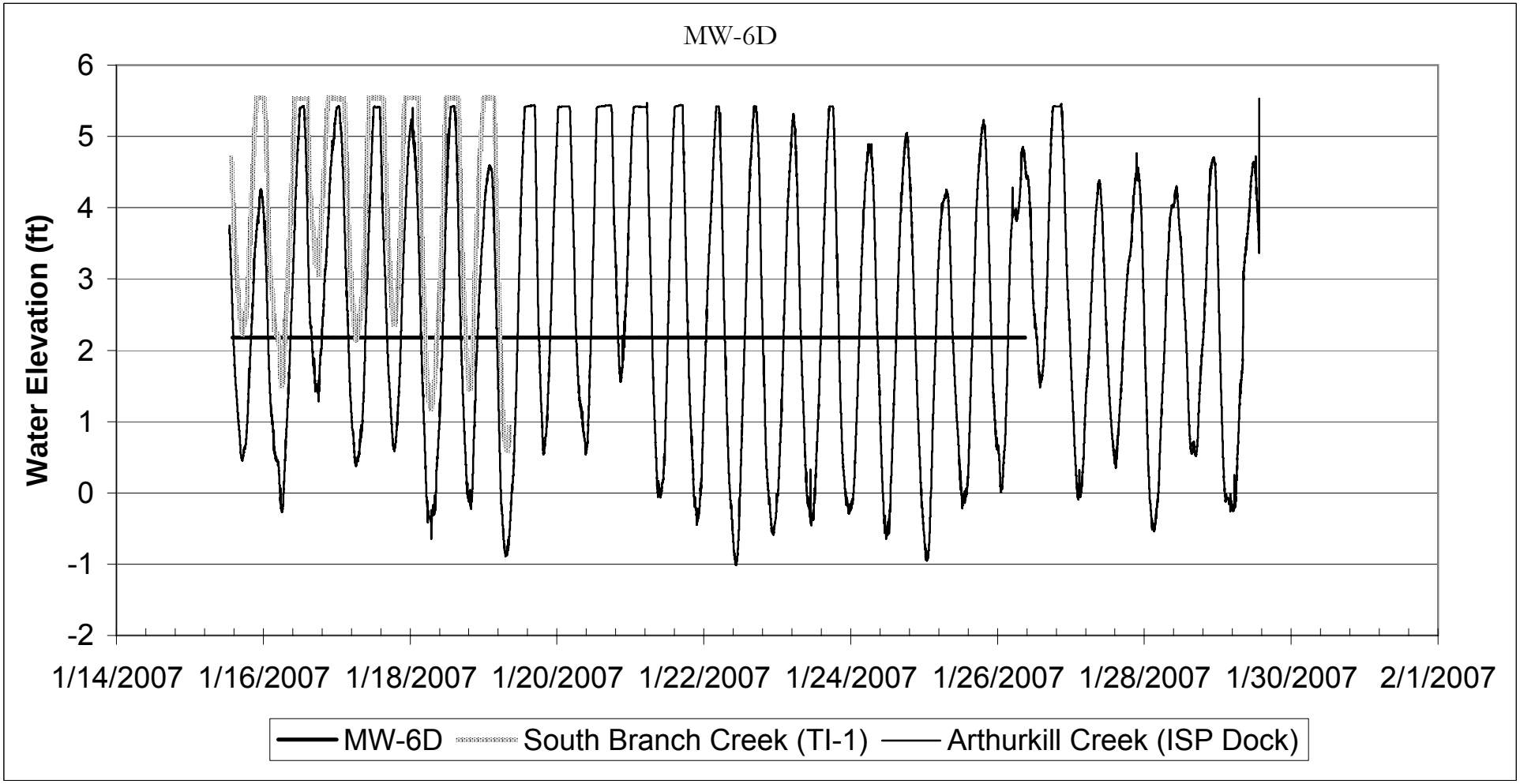
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhII_Hydrograph_.xls\Arthurkill Creek (ISP Dock)
9/5/2007

131369



HYDROGRAPH FOR MW- 6D

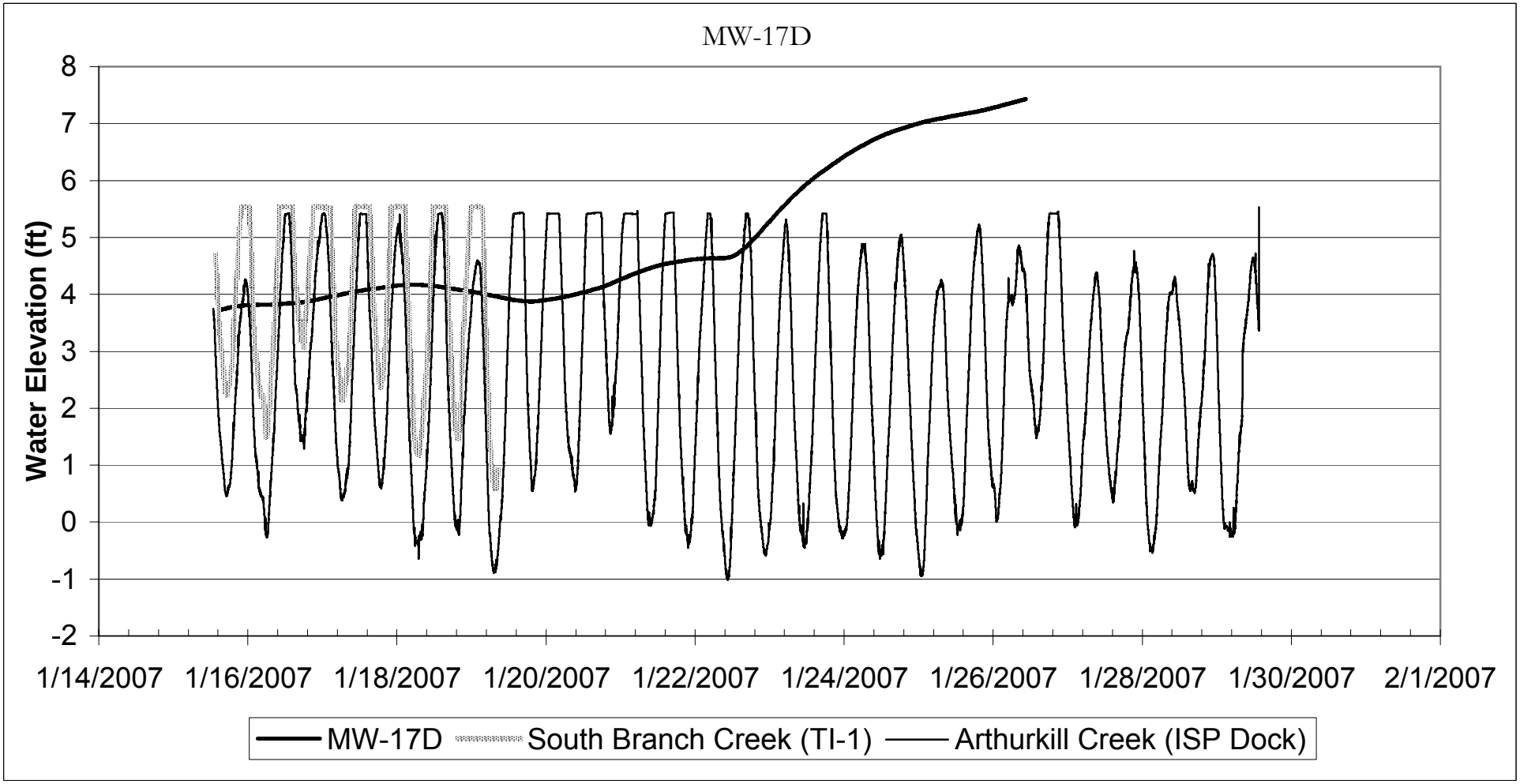
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhII_Hydrograph_.xls\MW- 6D
9/5/2007

131369



HYDROGRAPH FOR MW-17D

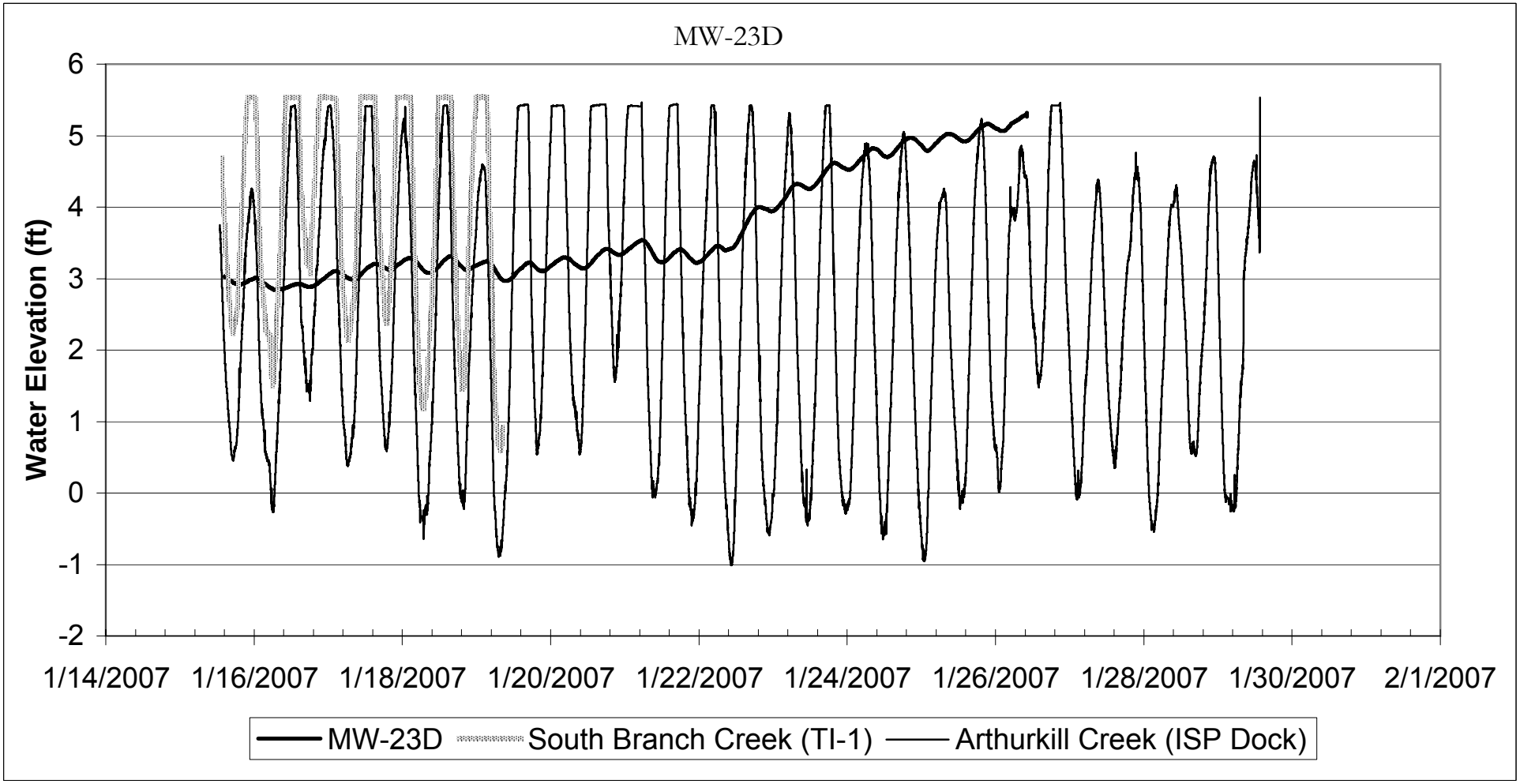
LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhII_Hydrograph_.xls\MW-17D
9/5/2007

131369



HYDROGRAPH FOR MW-23D

LCP Inc. Superfund Site

Linden, New Jersey

BROWN AND CALDWELL

P:\LCP\131369(Ph_II_RI)\SCSR_II(Ph_II-Rpt)\Appendices\Apx_B_(Hyd_Cond_Tst)\B-2_Hydrographs\PhII_Hydrograph_.xls\MW-23D
9/5/2007

Appendix E: Wetland Delineation

SDM

RECEIVED
FEB 22 2007
D. McNICHOL

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Land Use Regulation
P.O. Box 439, Trenton, NJ 08625-0439
Fax # (609) 777-3656
www.state.nj.us/dep/landuse

JON S. CORZINE
Governor

LISA P. JACKSON
Commissioner

FEB 16 2007

Michael Kovacs
EcolSciences, Inc.
75 Fleetwood Drive – Suite 250
Rockaway, NJ 07866

RE: Letter of Interpretation; Line Verification
File No.: 2009-02-0005.3FWW060001
Applicant: ISP Environmental Services, Inc.
Block: 587; Lots: 3.01, 3.02 & 3.03
Linden City, Union County

Dear Mr. Kovacs:

This letter is in response to your request for a Letter of Interpretation to verify the jurisdictional boundary of the freshwater wetlands and waters on the referenced property.

In accordance with agreements between the State of New Jersey Department of Environmental Protection, the U.S. Army Corps of Engineers Philadelphia and New York Districts, and the U.S. Environmental Protection Agency, the NJDEP, Division of Land Use Regulation is the lead agency for establishing the extent of State and Federally regulated wetlands and waters. The USEPA and/or USACOE retains the right to reevaluate and modify the jurisdictional determination at any time should the information prove to be incomplete or inaccurate.

Based upon the information submitted, the Division of Land Use Regulation has determined that the wetlands and waters boundary line(s) as shown on the plan map entitled "TOPOGRAPHIC SURVEY LCP CHEMICALS & PLASTICS, INC. BLOCK 587 LOTS 3.01, 3.02 & 3.03 CITY OF LINDEN, UNION COUNTY, NEW JERSEY", dated March 14, 2001, last revised October 17, 2006, and prepared by Keller & Kirkpatrick is accurate as shown.

Any activities regulated under the Freshwater Wetlands Protection Act proposed within the wetlands or transition areas or the deposition of any fill material into any water area, will require a permit from this office unless exempted under the Freshwater Wetlands Protection Act, N.J.S.A. 13:9B-1 et seq., and implementing rules, N.J.A.C. 7:7A. A copy of this plan, together with the information upon which this boundary determination is based, has been made part of the Division's public records.

Pursuant to the Freshwater Wetlands Protection Act Rules (N.J.A.C. 7:7A-1 et seq.), you are entitled to rely upon this jurisdictional determination for a period of five years from the date of this letter.

The freshwater wetlands and waters boundary line(s), as determined in this letter, must be shown on any future site development plans. The line(s) should be labeled with the above LUR file number and the following note:

"Freshwater Wetlands/Waters Boundary Line as verified by NJDEP."

In addition, the Department has determined that the wetlands on the subject property are of intermediate resource value. The standard transition area or buffer required adjacent to intermediate resource value wetlands is 50 feet. This classification may affect the requirements for an Individual Wetlands Permit (see N.J.A.C. 7:7A-7), the types of Statewide General Permits available for the wetlands portion of this property (see N.J.A.C. 7:7A-5) and the modification available through a transition area waiver (see N.J.A.C. 7:7A-6). Please refer to the Freshwater Wetlands Protection Act (N.J.S.A. 13:9B-1 et seq.) and implementing rules for additional information.

It should be noted that this determination of wetlands classification is based on the best information presently available to the Department. The classification is subject to change if this information is no longer accurate, or as additional information is made available to the Department, including, but not limited to, information supplied by the applicant. Under NJSA 13:9B-7a)(2), if the Department has classified a wetland as exceptional resource value, based on a finding that the wetland is documented habitat for threatened and endangered species that remains suitable for use for breeding, resting or feeding by such species, an applicant may request a change in this classification. Such requests for a classification change must demonstrate that the habitat is no longer suitable for the documented species because there has been a change in the suitability of this habitat. Requests for resource value classification changes and associated documentation should be submitted to the Division of Land Use Regulation, P.O. Box 439, Trenton, New Jersey 08625.

This letter in no way legalizes any fill which may have been placed, or other regulated activities which may have occurred on-site. Also this determination does not affect your responsibility to obtain any local, State, or Federal permits which may be required.

In accordance with N.J.A.C. 7:7A-1.7, any person who is aggrieved by this decision may request a hearing within 30 days of the decision date by writing to:

New Jersey Department of Environmental Protection
Office of Legal Affairs
Attention: Adjudicatory Hearing Requests
401 East State Street
P.O. Box 402
Trenton, NJ 08625-0402

This request must include a completed copy of the Administrative Hearing Request Checklist.

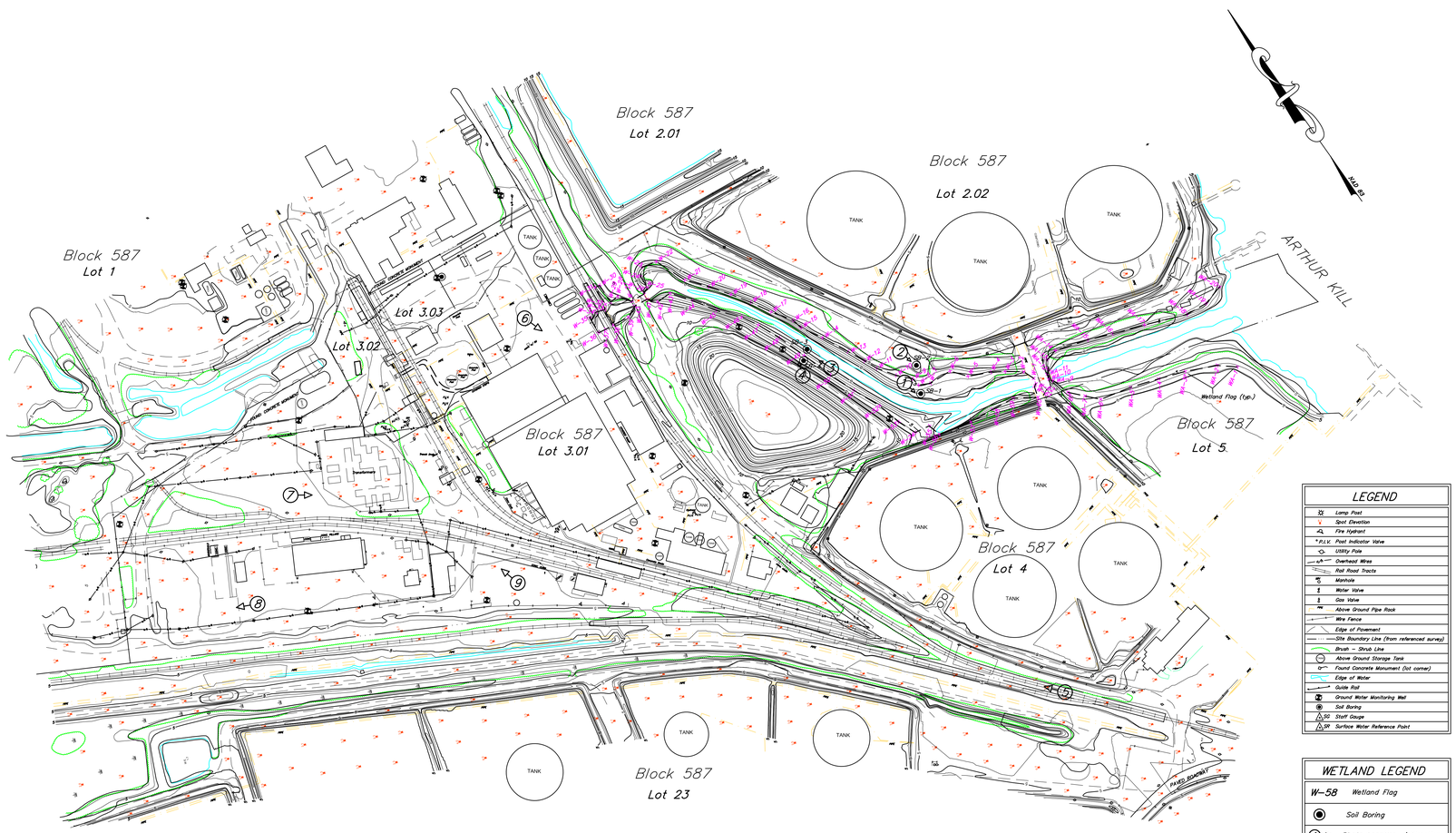
Please contact Tina Wolff of our staff at (609) 633-6754 or e-mail at Tina.Wolff@dep.state.nj.us should you have any questions regarding this letter. Be sure to indicate the Division's file number in all communication.

Sincerely,

Christopher Jones
Section Chief
Bureau of Inland Regulation

c:

Linden City Municipal Construction Official



LEGEND
Lamp Post
Spot Elevation
Fire Hydrant
F.D.I.V. Post Indicator Valve
Utility Pole
Overhead Wires
Roll Road Tracts
Manhole
Water Valve
Gas Valve
Above Ground Pipe Rack
Wire Fence
Edge of Pavement
Site Boundary Line (from referenced survey)
Brush – Shrub Line
Above Ground Storage Tank
Found Concrete Monument (lot corner)
Edge of Water
Guide Rail
Ground Water Monitoring Well
Soil Boring
SG Staff Gauge
SR Surface Water Reference Point

WETLAND LEGEND
W-58 Wetland Flag
Soil Boring
Photo Location / Direction

SURVEY NOTES:

THE WORD CERTIFY, AS USED HEREON, IS UNDERSTOOD TO BE AN EXPRESSION OF PROFESSIONAL OPINION BY THE SURVEYOR, WHICH IS BASED ON HIS BEST KNOWLEDGE, INFORMATION AND BELIEF. AS SUCH, IT CONSTITUTES NEITHER A GUARANTEE NOR A WARRANTY, EXPRESSED OR IMPLIED.

THE NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS PROHIBITS ENGINEERING OR SURVEYING DOCUMENTS PREPARED BY ONE LICENSEE FROM BEING ALTERED, AMENDED, EXPANDED, FINALIZED OR OTHERWISE ADJUSTED BY ANOTHER LICENSEE WHO WAS NOT IN RESPONSIBLE CHARGE OF THE INITIAL WORK PRODUCT. THE ONLY EXCEPTION TO THE PROHIBITION IS THE USE OF PLANS PREPARED BY OTHERS FOR AS-BUILT PURPOSES WHERE THE NATURE OF THE AS-BUILT ALLOWS THE AS-BUILT DATA TO BE ADDED TO THE PREVIOUSLY PREPARED PLAN WHERE THERE IS, THEREFORE, NO NEED TO ADJUST OR CHANGE THE UNDERLYING DESIGN DOCUMENT.

IF THIS SURVEY DOES NOT CONTAIN THE RAISED SEAL OF THE SURVEYOR, IT IS AN UNAUTHORIZED REPRODUCTION OF THE SURVEY.

THE WETLAND DELINEATION SHOWN HEREON IS AS MARKED BY ECOLSCIENCES, INC. IN MAY, 2006 AND LOCATED BY KELLER & KIRKPATRICK ON MAY 17 & 18, 2006.

THE BOUNDARY LINES SHOWN HEREON ARE TAKEN FROM A MAP ENTITLED "RESUBDIVISION MAP OF LOT 3 IN BLOCK 587 OF THE TAX MAP OF THE CITY OF LINDEN, UNION COUNTY, N.J., INTO THREE LOTS". SAID MAP WAS PREPARED BY GRASSMANN, KREH & MIKER, UNION, N.J. DATED OCT. 26, 1976.

LOT AND BLOCK NUMBERS SHOWN HEREON ARE BASED UPON THE CURRENT TAX MAPS OF THE CITY OF LINDEN, SHEET No. 128.

PLANIMETRIC AND TOPOGRAPHIC INFORMATION SHOWN HEREON SUPPLIED BY ATLANTIS AERIAL SURVEY CO., INC. PER AERIAL PHOTOGRAPHY DATED DECEMBER 5, 2000.

HORIZONTAL DATUM BASED ON NAD83, VERTICAL DATUM BASED ON NGVD29 ESTABLISHED USING GLOBAL POSITIONING METHODS. HOLDING NJT COORS STATION AS FIXED.

KELLER & KIRKPATRICK DID NOT PERFORM A BOUNDARY SURVEY ON THE ABOVE PARCEL.

LOT LINES SHOWN HEREON ARE APPROXIMATE.

IF DIGITAL INFORMATION IS ALSO SUPPLIED, IT IS DONE SO FOR INFORMATIONAL PURPOSES, ONLY. THE ORIGINAL SIGNED AND SEALED DOCUMENT IS THE DOCUMENT OF RECORD.

UTILITY LOCATIONS SHOWN HEREON ARE FROM ABOVE GROUND OBSERVATIONS THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE USER OF THIS SURVEY IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATIONS OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY.

SOIL BORING LOCATIONS ARE AS MARKED IN THE FIELD BY ECKENFELDER, BROWN & CALDWELL PERSONNEL AND LOCATED BY KELLER & KIRKPATRICK.

ELEVATIONS ON STAFF GAUGES ARE TO REFERENCE MARKS ON WOODEN SUPPORTS.

SOIL BORING LOCATIONS SB-1 TO SB-4 AND PHOTO LOCATION AND DIRECTION POSITIONS WERE PROVIDED TO KELLER & KIRKPATRICK BY ECOLSCIENCES, INC.

AREA CHART:

TOTAL TRACT (INCLUDING AREA WITHIN ARTHUR KILL)	25.83± ACRES
WETLANDS (EXCLUDING AREA WITHIN ARTHUR KILL)	2.01± ACRES
UPLANDS (EXCLUDING AREA WITHIN ARTHUR KILL)	23.42± ACRES
AREA WITHIN ARTHUR KILL	0.40± ACRES

REVISIONS		
6		
5		
4	ADD PHOTO/BORING LOCATIONS	9/18/06
3	ADD WETLAND FLAGS	5/18/06
2	ADD WELLS, BORINGS & REFS.	12/14/01
1	ADD LOT LINES 3.02 & 3.03	6/01/01

DATE: 5/14/01 SCALE: 1"=100' FLD. BK.: 56-52
PROJ.: 2001202.01 CHKD.: PAGE:

0 50 100 200 400

Keller & Kirkpatrick Certificate of Authorization #24GA28000300
CONSULTING ENGINEERS 900 Lakeview Plaza, Paramus, N.J. 07054 973-887-0208
LAND SURVEYORS LANDSCAPE ARCHITECTS PLANNERS
ROBERT C. KIRKPATRICK, Jr., Professional Engineer and Land Surveyor, Lic. 11339
GEORGE A. MAJOR, Professional Land Surveyor, Lic. 24701
WERNER A. MALL, Professional Land Surveyor, Lic. 32203

Preliminary

TOPOGRAPHIC SURVEY
LCP Chemicals & Plastics, Inc.
BLOCK 587
LOTS 3.01, 3.02 & 3.03
CITY OF LINDEN, UNION COUNTY, NEW JERSEY

SHEET No. 1 OF 1

W:/2001202/DWG/SURVEYS/LCP_WETLANDS.dwg

R2-0003935

Appendix F: Habitat Assessment Report

Ecological Assessment Report

LCP Chemicals Inc. Superfund Site

City of Linden
Union County, New Jersey

August 23, 2007

THE Chazen COMPANIES®

Engineers / Surveyors
Planners
Environmental Scientists
Landscape Architects

Prepared for:

ISP Environmental Services, Inc.
1361 Alps Road
Wayne, New Jersey 07470

Ecological Assessment Report

LCP Chemicals Inc. Superfund Site

City of Linden
Union County, New Jersey

August 23, 2007

THE Chazen COMPANIES®

Engineers / Surveyors
Planners
Environmental Scientists
Landscape Architects

Prepared by:

Chazen Engineering, Land Surveying & Landscape Architecture Co., P.C.
or
Chazen Environmental Services, Inc.
356 Meadow Avenue
Newburgh, New York 12550
(845) 567-1133

Dutchess County	*Orange County*	*Capital District*	*North Country*
(845) 454-3980	*(845) 567-1133*	*(518) 273-0055*	*(518) 812-0513*

EXECUTIVE SUMMARY

This Ecological Assessment (EA) Report was completed by The Chazen Companies (TCC) for ISP Environmental Services, Inc. as part of the Phase II Remedial Investigation of the 26-acre LCP Chemicals Inc. Superfund Site in the City of Linden, Union County, New Jersey. The following sections of this report describe the methodologies used in the EA and provide a detailed description of the Site and the ecological resources present within the project area.

The methodology utilized to complete this EA consisted of gathering information from federal, state, and local agencies, supplemented by site visits designed to identify and characterize the Site's flora and fauna. Additionally, the Site was studied for the presence of endangered, threatened, and/or rare (ETR) species and their habitats.

The Site is a 26-acre abandoned chlor-alkali chemical plant. A man-made ditch (South Branch Creek) with associated wetlands is located in the eastern portion of the Site. The creek flows to the east, connecting to the Arthur Kill. Pralls Island, located approximately 1,200 feet to the east of the Site, is an uninhabited island owned by the NYC Department of Parks and Recreation and is part of the Harbor Herons Rookery Complex.

During this EA, 79 species of plants, 42 species of wildlife, and 3 ecological communities were identified within the Site. No ETR species or significant ecological communities were identified within the Site.

Correspondence with the New Jersey Department of Environmental Protection (NJDEP) indicated that there are no records of any rare wildlife or plant species or ecological communities within the Site. The NJDEP reported that foraging habitat for black (*Nycticorax nycticorax*) and yellow-crowned night herons (*Nyctanassa violacea*) and colonial waterbirds was located within ¼ mile of the Site. Based on information from the NJDEP, no records of any rare plants or ecological communities were recorded within ¼ mile of the Site. According to the New York State Department of Environmental Conservation (NYSDEC), yellow-crowned night herons and pied-billed grebes (*Podilymbus podiceps*) are located within ¼ mile of the Site. These species were not observed during the EA.

A review of the Comprehensive List of Endangered and Threatened species provided on the USFWS's website indicated that the federally-threatened bog turtle (*Glyptemys muhlenbergii*) and the federally-endangered Indiana bat (*Myotis soldalis*) historically occurred in Union County, New Jersey. These species were not observed, nor was any suitable habitat for these species observed during the EA.

Overall, the flora and fauna found on the Site are species typically found in heavily industrialized areas within intertidal marsh ecosystems. Vegetative species found within the Site are very common to highly disturbed areas and possess no Federal or New Jersey State protection.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i

1.0 Introduction 1

1.1 Surrounding Landscape 3

2.0 Methodology 7

2.1 Federal and State Agencies and Literature Review 7

2.2 Endangered and Threatened Species 8

2.3 Field Investigation 9

2.3.1 Ecological Communities 9

2.3.2 Wildlife 10

3.0 Existing physical conditions 11

3.1 Topography 11

3.2 Hydrology and Wetland Mapping 11

3.2.1 Watercourses 11

3.2.2 Wetland Mapping 12

4.0 Results 15

4.1 Ecological Communities 15

4.2 Fauna 21

4.2.1 Mammals 21

4.2.2 Reptiles and Amphibians 21

4.2.3 Fish and Crustaceans 22

4.2.4 Birds 22

4.2.5 Endangered, Threatened, and Rare Wildlife Species 23

5.0 CONCLUSIONS 24

LIST OF FIGURES

Figure 1.0-1 Site Location Map 2

Figure 1.1-1 Surrounding Land Use Map 6

Figure 3.0-1 Aerial Photograph 13

Figure 3.2-2 Wetlands Map 14

Figure 4.1-1 Ecological Communities Map 20

LIST OF TABLES

Table 2.3.1 Work Field Days 9

Table 4.1.1 List of Species observed within the Urban Vacant Lot Community 16

Table 4.1.1 List of Species observed within the Successional Old Field Community 18

Table 4.1.2 List of Species observed within the Brackish Tidal Marsh Community 19

Table 4.2.1 Mammal Species Observed 21

Table 4.2.2 Reptile and Amphibian Species Observed 21

Table 4.2.3 Fish and Crustaceans Species Observed 22

Table 4.2.4 Bird Species Observed 23

LIST OF APPENDICES

Appendix A: Correspondence

Appendix B: Site Photographs

1.0 Introduction

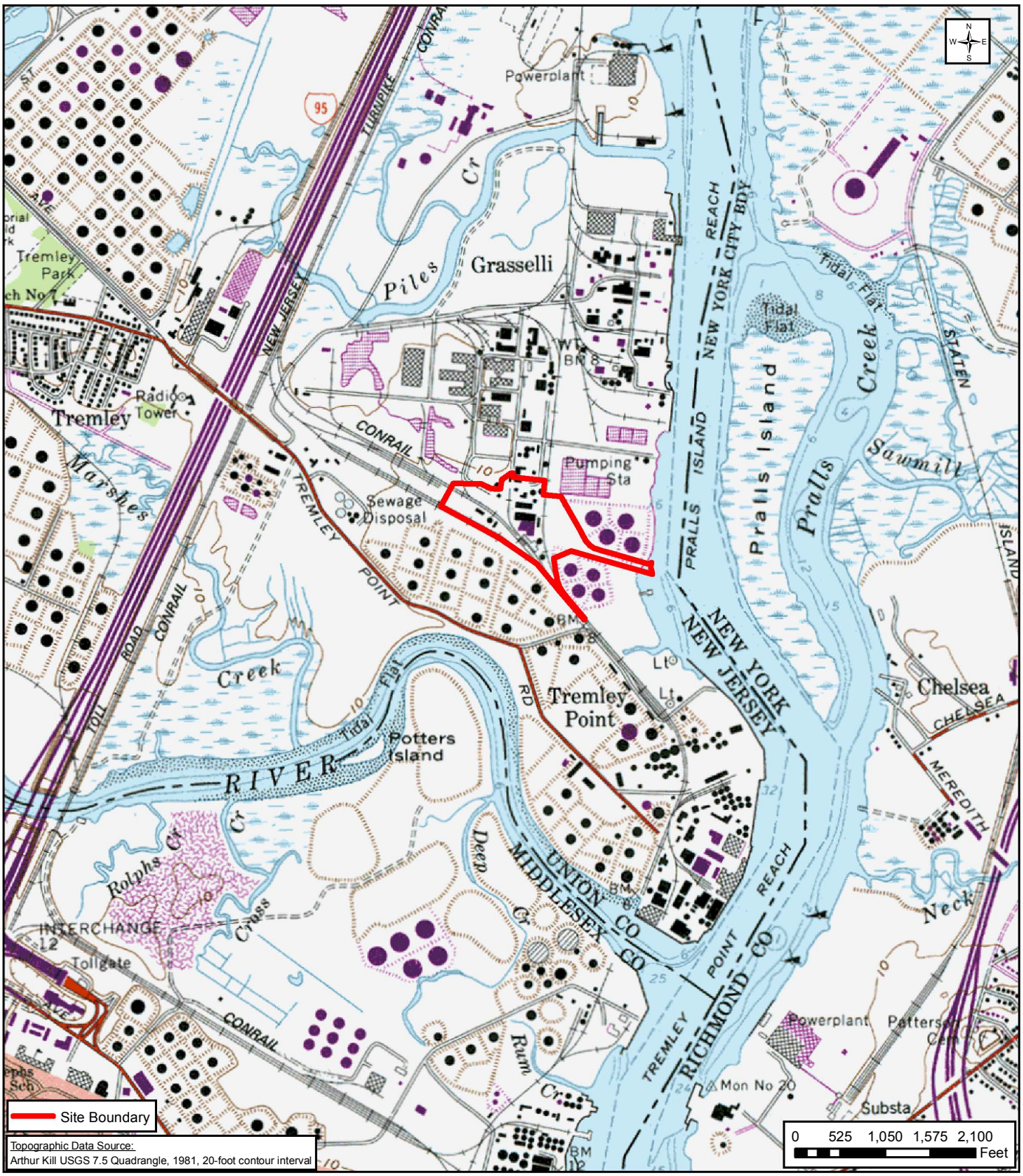
This Ecological Assessment (EA) Report was completed by The Chazen Companies (TCC) for ISP Environmental Services, Inc. as part of the Phase II Remedial Investigation of the 26-acre LCP Chemicals Inc. Superfund Site located in the City of Linden, Union County, New Jersey (hereafter "Site"). Figure 1.0-1, "Site Location Map," illustrates the "Site" on the *USGS Arthur Kill River, NY-NJ (1966, photorevised 1981) Topographic Quadrangle*.

The Site is located on Tremley Point along the Arthur Kill in the City of Linden. The site area has historically been developed for heavy industrial use. The coordinates of the center of the Site are Latitude 40.6032, Longitude -74.21163. The Arthur kill is located immediately east of the Site and receives flow from the Site, through South Branch Creek.

Currently, the Site is vacant, containing several abandoned industrial buildings in the western portion of the Site. A former brine sludge lagoon containing an impervious cap approximately 1.6 acres in size is located in the eastern-central portion of the Site adjacent to South Branch Creek.

South Branch Creek is a man-made tidal ditch that originates near the east-central portion of the Site and flows approximately 1,200 feet to the east, discharging into the Arthur Kill. The ditch is approximately 15 feet wide at the head of the stream and becomes as wide as 30 feet on the eastern end of the Site. The tidal flux of the Arthur Kill and South Branch Creek is approximately four to five feet. The substrate consists of very soft, organic muck up to three feet in depth. Some rip-rap is present along the banks of the creek and some construction debris along the bottom and banks of the creek.

The following sections of this report describe the methodologies used in the EA and provide a detailed description of the Site, surrounding area, and the ecological resources present at the Site.



THE Chazen COMPANIES
Engineers/Surveyors
Planners
Environmental Scientists
GIS Consultants

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:	Orange County Office:	Capital District Office:	North Country Office:
21 Fox Street	356 Meadow Avenue	547 River Street	110 Glen Street
Poughkeepsie, NY 12601	Newburgh, NY 12550	Troy, NY 12180	Glens Falls, NY 12801
Phone: (845) 454-3980	Phone: (845) 567-1133	Phone: (518) 273-0055	Phone: (518) 812-0513

This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of this map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

LCP Chemicals

Figure 1.0-1
Site Location Map

City of Linden
Union County, New Jersey

Created by: JFT
Date: 09/14/06
Scale: 1:17,987
Project #: 70620.00

1.1 Surrounding Landscape

The primary active land use in the surrounding area is bulk storage and transport of petroleum products and aggregate. The transport of these materials occurs by ship and barge using on-site dockage on the Arthur Kill as well as by truck and pipeline. Other active facilities in the area include a municipal wastewater treatment plant, trucking and warehousing, and truck repair. A number of large chemical manufacturing facilities formerly operated within one mile of the site, each of which is currently inactive and in various stages of demolition and site remediation. The industrial properties located immediately adjacent to the LCP site include:

- Valero Linden Terminal located north and south of South Branch Creek along the Arthur Kill.

- The former GAF Chemicals chemical manufacturing facility to the north which is currently being remediated by ISPESI. The site remediation included demolition of site structures, grading and drainage improvements, construction of a fully circumferential shallow groundwater barrier and groundwater collection system, installation of bedrock groundwater extraction wells, and the construction and operation of a groundwater conveyance and treatment system.

- Citgo Petroleum Corp, Linden Transload Terminal located to the south and southwest.

Various undeveloped areas are located within one mile of the Site, much of which is either vacant former chemical manufacturing facilities or tidal wetlands. The only area of residential development within one mile of the Site is the Tremley section of Linden which is located west of the New Jersey turnpike approximately 4,700 feet from the center of the Site. Zoning regulations are in effect for the City of Linden. All of the land located west of the New Jersey Turnpike on Tremley Point is zoned H1 - Heavy Industrial. Figure 1.1-1, "Surrounding Land Use Map" depicts the land-use patterns surrounding the Site.

Several watercourses are located in the area surrounding the Site. Piles Creek is located approximately 2350 feet north of the Site and the Rahway River is located approximately 1550 feet to the south. Both watercourses have tidal marshes associated with them. Piles Creek and Rahway River are mapped as estuarine, subtidal, unconsolidated bottom, subtidal rivers [E1UBL] by the National Wetland Inventory (NWI) program. The tidal marshes associated with Piles Creek are mapped as estuarine, intertidal, emergent, persistent, irregularly flooded, partially drained/ditched wetlands [E2EM1Pd]. According to the NJDEP, Piles Creek is

classified as a SE3 watercourse. The SE3 classification is given to estuarine waters designated for secondary contact recreation, maintenance and migration of fish populations, migration of diadromous fish, maintenance of wildlife, and any other reasonable uses.[1] The section of the Rahway River nearest to the Site is classified as SE3.

The Arthur Kill is located immediately east of the Site. The Arthur kill is a large river, approximately 300-600 feet wide and greater than 30 feet deep that flows from north to south, discharging into the Raritan Bay. The Arthur Kill is frequently dredged to maintain a passageway for commercial ships. It is mapped as an estuarine, unconsolidated bottom, subtidal river [E1UBL]. According to the NJDEP, the Arthur Kill is classified as a SE3 watercourse. The stretch of the Arthur Kill adjacent to the Site is classified as SD by the NYSDEC. The SD classification is for saline waters that are suitable for fish survival. This classification is given to waters that, because of natural or man-made conditions, cannot meet the requirements for primary and secondary contact recreation and fish propagation.[2]

Pralls Island is located approximately 1,200 feet to the east of the Site within the Arthur Kill. It is an approximately 80-acre uninhabited island that was created from former dredge spoil deposits. The central portion of the island is forested and dominated primarily by tree-of-heaven (*Ailanthus altissima*), gray birch (*Betula populifolia*), and black cherry (*Prunus serotina*), all less than 30 feet in height. Tree-of-heaven is an aggressive invasive species. The perimeter of the island contains tidal wetlands. The wetlands are mapped as estuarine, intertidal, emergent, persistent, regularly exposed [E1EM1N]; and estuarine, intertidal, unconsolidated shore, sand, irregularly flooded wetlands [E1US2P]. The island is owned by the City of New York Department of Parks and Recreation and is part of the Harbor Herons Sanctuary.

Since 1987, the New York City Audubon Society has overseen a study on the breeding success of wading birds on this island. According to a 1989 study by the NYS DOS Division of Coastal Resources, there was an estimated 200 pairs of herons nesting on the island, including 7 pairs of cattle egrets (*Bubulcus ibis*), 88 pairs of glossy ibis (*Plegadis falcinellus*), and 77 pairs of black-crowned night herons (*Nycticorax nycticorax*)[3]. Over the past sixteen years, the number of herons nesting on the island has significantly decreased. During the NYC Audubon's Harbor Herons 2005 Interim Nesting Survey, a total of 39 black-crowned night heron nests were located[4]. Five of the nests were occupied and 34 of the nests were inactive[5].

[1] N.J.A.C. 7:9B-1.12(f)
[2] 6 NYCRR Article 890, Part 890.6
[3] NYS DOS Division of Coastal Resources. 1989. Designated Habitat: Pralls Island.
[4] Bernick, A.J. 2005. New York City Audubon's Harbor Herons Project: 2005 Interim Nesting Survey.

The island is subject to chemicals (i.e., heavy metals, DDT, and petrochemicals), nutrient pollution stresses, and stormwater and sewage discharges[6]. All of these pollutants have negative effects on the habitat used by the herons and may be a cause for their decreased use of the island.

Other avian species observed on Pralls Island include great blue (*Ardea herodias*) and little blue herons (*Egretta caerulea*); great (*Ardea alba*), cattle, and snowy egrets (*E. thula*); glossy ibis; yellow- (*Nyctanassa. violacea*) and black-crowned night herons; herring (*Larus argentatus*) and great black-backed gulls (*Larus marinus*); water fowl species such as American black duck (*Anas rubripes*), gadwall (*Anas strepera*), mallard (*Anas platyrhynchos*), and Canada geese (*Branta canadensis*); and American woodcocks (*Scolopax minor*).

[5] Ibid
[6] NYS DOS Division of Coastal Resources. 1989. Significant Habitats and Habitat Complexes of the New York Bight Watershed: Arthur Kill Complex.

THE Chazen COMPANIES
Engineers/Surveyors
Planners
Environmental Scientists
GIS Consultants

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:	Orange County Office:	Capital District Office:	North Country Office:
21 Fox Street	356 Meadow Avenue	547 River Street	110 Glen Street
Poughkeepsie, NY 12601	Newburgh, NY 12550	Troy, NY 12180	Glens Falls, NY 12801
Phone: (845) 454-3980	Phone: (845) 567-1133	Phone: (518) 273-0055	Phone: (518) 812-0513

This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of this map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

LCP Chemicals

Figure 1.1-1
Surrounding Land Use Map

City of Linden
Union County, New Jersey

Created by:	JFT
Date:	02/16/2007
Scale:	1:11,650
Project #:	70620.00

2.0 Methodology

As part of this EA, information was gathered from federal, state, and local agencies and was supplemented by a literature review and an on-site field investigation. The field investigation was designed to catalog the Site's flora and fauna. A brief description of the methods used follows.

2.1 Federal and State Agencies and Literature Review

The NJDEP was contacted on August 8, 2006, and the NYSDEC was contact on October 3, 2006, to obtain information concerning known occurrences of endangered, threatened, and/or rare (ETR) species located on, or within the vicinity of, the Site. Copies of these letters are included in Appendix A, "Correspondence." On August 31, 2006, the NJDEP Natural Heritage Program responded in a letter stating that no rare wildlife or plant species, or ecological communities were located within the Site. Within a ¼ mile of the Site, the NJDEP has records of foraging habitat for black and yellow-crowned night herons and colonial waterbirds. However, no records of any rare plants or ecological communities were reported within a ¼ mile of the Site.

On October 27, 2006, the NYSDEC responded in a letter stating that the New Jersey State-endangered pied-billed grebe (*Podilymbus podiceps*), and New Jersey State-threatened yellow-crowned night herons were located within a ¼ mile of the LCP Chemicals Inc. Superfund Site. In addition, several endangered and threatened vascular plants including rose-pink (*Sabatia angularis*), persimmon (*Diospyros virginiana*), Nantucket juneberry (*Amelanchier nantucketensis*), sweetbay magnolia (*Magnolia virginiana*), featherfoil (*Hottonia inflata*), thicket sedge (*Carex abscondita*), glaucous sedge (*Carex glaucodea*), primrose-leaf violet (*Viola primulifolia*), southern dodder (*Cuscuta obtusiflora* var. *glandulosa*), swamp cottonwood (*Populus heterophylla*), possum-haw (*Viburnum nudam* var. *nudum*), and American strawberry bush (*Euonymus americanus*) were recorded within two miles of the Site (Confidential correspondence with NYSDEC). Due to the sensitivity of some of the information provided within this letter, pages describing the locations of species will not be provided.

To determine if any federally-listed species occur in the project area, TCC reviewed the Comprehensive List of Endangered and Threatened species as provided on the USFWS's New Jersey Field Office website.[7] This list identifies federally-listed species by the counties and municipalities in which they occur. According to this document, the federally-threatened bog turtle (*Clemmys muhlenbergii*) and the federally-endangered Indiana bat (*Myotis soldalis*) are known to occur in Union County. However, bog turtles are known to only occur in four municipalities in

[7] http://www.fws.gov/northeast/njfieldoffice/Endangered/munlist.pdf

Union County: Berkeley Heights Township, Mountainside Borough, Scotch Plains Township, and Summit City. The Site is located in the City of Linden municipality, which does not border any of the abovementioned municipalities. Indiana bats may occur in any municipality in Union County; therefore, they may occur in the vicinity of the Site. However, suitable habitat was not found on-site except for several abandoned buildings.

Below, TCC presents a brief review of the habitat requirements of the ETR species identified as potentially occurring in the project area.

2.2 Endangered and Threatened Species

Indiana Bat

Indiana bat habitat is composed of both hibernacula and summer roosting areas. Hibernacula typically are located in abandoned mines or caves. Summer roosting habitat is characterized by wooded areas with trees that have a southern exposure, are ≥ 5 inches in diameter, and that exhibit specific physical characteristics (e.g., exfoliating bark, crevices, dead limbs, snags) that provide refuge for bats during the day for both resting and maternity purposes.[8]

Pied-billed Grebe

Primary nesting habitat typically includes dense stands of emergent vegetation or low-lying aquatic vegetation. Open water is usually found near nesting habitat. Pied-billed grebes may nest in heavily populated areas as along as nesting-habitat requirements are met.[9] During the nonbreeding season, they can be found in a variety of habitats including brackish marshes and tidal creeks.

Yellow-crowned Night Heron

Yellow-crowned night herons typically nest and roost on dredge spoils, barrier and bay islands that contain forested wetlands and shrub thickets.[10] Nesting areas with insufficient cover are usually avoided; however, recently yellow-crowned night herons have been observed nesting in residential neighborhoods, parks, and other areas near humans.[11] Primary foraging habitat includes the shores of tidal creeks and pools within salt and brackish tidal marshes dominated by smooth cordgrass (*Spartina alternifolia*).[12]

---

[8] Indiana Bat Project Review Fact Sheet. USFWS New York Field Office. August 2005.
9 Muller, M.J. and R.W. Stoner. 1999. Pied-billed Grebe (Podilymbus podiceps). *In* The Birds of North America, No. 410 (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA.
[10] Yellow-crowned night heron fact sheet. NJDEP.
[11] Ibid
[12] Ibid

2.3 Field Investigation

Biologists from The Chazen Companies (TCC) conducted on-site investigations of the Property on the following dates, shown below.

Table 2.3.1 Work Field Days

LCP Chemicals Inc. Superfund Site Work Field Days and Activity Sheet			
Dates	**Staff**	**Man Hours**	**Work Conducted**
07/20/2006		10	Habitat Assessment
08/24/2006		24	Habitat Assessment and Pilot Biota Sampling
09/18/2006		16	Habitat Assessment and Biota Sampling
09/19/2006		23	Habitat Assessment and Biota Sampling
09/20/2006		23	Habitat Assessment and Biota Sampling
09/21/2006		12	Habitat Assessment and Biota Sampling
09/26/2006		10	Habitat Assessment
09/27/2006		10	Habitat Assessment
Total Field Days		8	
Total Man Hours		136	*Total man hours does not include drive time

During the field investigations, plant and animal species were inventoried to characterize existing populations, habitats, and communities. The potential for rare plants and animals, as well as general observations regarding overall plant community composition and structure, wetlands and watercourses, the degree of site disturbance, and other site characteristics were noted and recorded during the site inspection. The Site was transected in its entirety excluding entering hazard zones (i.e., on-site buildings) to ensure that each vegetative community type was surveyed.

In addition to investigating the Site, other areas within a half mile perimeter from the Site were investigated to document vegetation and the presence of wildlife species which live in the area.

Moreover, a literature review was conducted to provide supporting documentation for use in the EA. Information gathered included topographic maps, soil and geology maps, aerial photographs, pertinent plant and animal species information (i.e., known species in the area, characteristics required for identification, etc.), historical information, and information on the Pralls Island heron rookery.

2.3.1 Ecological Communities

Community (habitat) types described herein generally follow those utilized by the NJDEP and New York Natural Heritage Programs as described in *A Preliminary*

Natural Community Classification For New Jersey[13] and *Ecological Communities of New York.*[14] Vegetation identified within the Site is described in the following sections in terms of strata (layers – "overstory;" "understory;" and "groundcover").

Overstory vegetation represents the canopy tree species greater than six inches in diameter. Understory/shrub vegetation is comprised of woody tree species between two and six inches in diameter, and saplings and shrubs less than two inches in diameter and three to 12 feet in height. Ground layer vegetation consists of both woody and herbaceous vegetation less than three feet in height.

During the Site evaluation, the distributions of various communities were noted along with the vegetative species composition, plant structure (i.e., layers), and other vegetative characteristics. This information was used to provide a written description of each community type as presented below. Additionally, aerial photographic interpretation was used to assist in preparing a depiction of the ecological communities of the Site.

Plants species were field-identified to genus and species, when possible. Unidentified plant species were collected for later identification. Upon the compilation of the species list, plants identified at the Site were reviewed to determine if any federally- or state-listed plants were documented. Finally, species were categorized by location and general habitat characteristics were documented.

2.3.2 Wildlife

On-site field surveys of wildlife species were conducted for reptiles, amphibians, mammals, fish, bird, and crustacean species. An area of approximately ½ mile from the Site was also surveyed to document species living within close proximity to the Site. The following discussion outlines the methods used.

Reptiles and Amphibians

Methods used to conduct the reptiles and amphibian surveys include turning debris, and large stones to reveal herpetological species underneath.

[13] Breden. T.F. A preliminary natural community classification for New Jersey. Repinted from: Karlin, E.F. [editor]. 1989. New Jersey's Rare and Endangered Plants and Animals. Institute for Environmental Studies, Ramapo College, Mahwah, NJ. 280p.

[14] Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero (editors). 2002. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. (Draft for review). New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.136 pgs.

Mammals

Methods to detect mammals were based on visual encounters, vocalization, tracks, scat, remains, or other signs.

Birds

Bird species were identified throughout the Site either visually, by song, and/or by nest evaluations. Associations between bird species and their corresponding preferred habitat types were noted during the investigation.

Fish and Crustaceans

Fish and crustacean species were identified by seining and visual observation in the South Branch Creek. Seining occurred at several locations along the stretch of the South Branch Creek located on-site.

3.0 Existing physical conditions

The Site consists primarily of abandoned industrial buildings. Many of the buildings are decrepit and falling down. Several dirt roads and railroad tracks bisect the Site. A former brine sludge lagoon containing an impervious cap approximately 1.6 acres in size is located in the eastern portion of the Site adjacent to the South Branch Creek. The following section describes the Site's topography, soils, hydrology including wetland mapping, and vegetative communities.

3.1 Topography

According to the *USGS Arthur Kill NY-NJ (1966, photorevised 1981) Topographic Quadrangle* map, the Site is flat and is less than 10 feet above mean sea level (msl). Figure 1.0-1 provides an illustration of the overall Site topography.

3.2 Hydrology and Wetland Mapping

3.2.1 Watercourses

South Branch Creek is a man-made brackish tidal ditch originating in the central portion of the Site and flowing east over 1,200 feet before discharging into the Arthur Kill. The watercourse is approximately 15 feet wide at the head of the stream and becomes as wide as 30 feet on the eastern end of the Site. The substrate consists of very soft, organic muck up to three feet in depth. South Branch Creek has a large tidal change from low to high tide (i.e., 4-5 feet).

3.2.2 Wetland Mapping

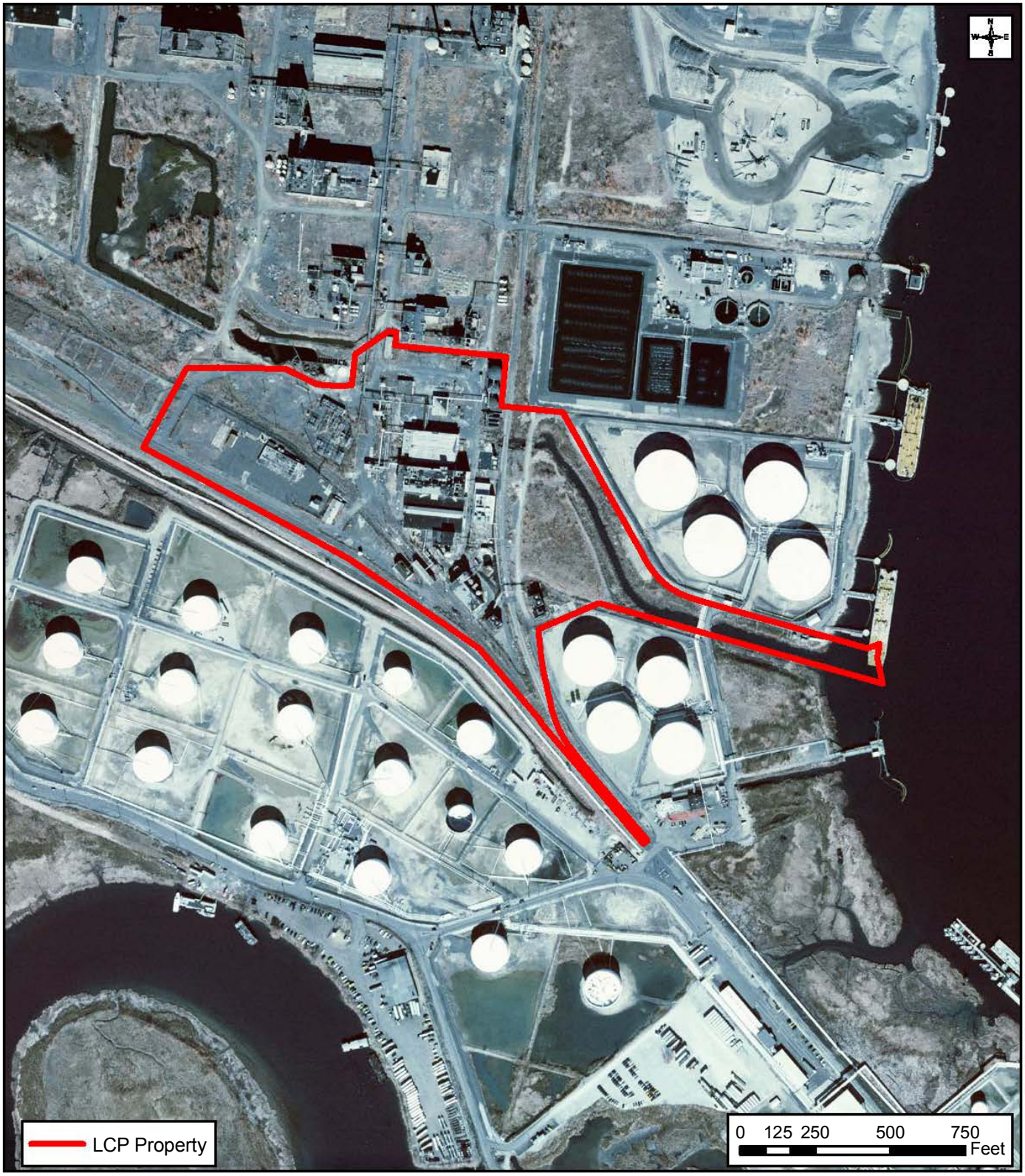
NWI Mapping

According to the National Wetland Inventory (NWI) digital data provided by the USFWS there are several watercourses and wetlands mapped within the project area. Only one NWI wetland is mapped within the boundaries of the Site. The wetland is mapped in the locality of South Branch Creek. The wetland is mapped as an estuarine, intertidal, emergent, mesohaline, irregularly flooded wetland [E2EM5P]. A wetland mapped located immediately adjacent to the northwestern Site boundary is mapped as an Estuarine, subtidal, unconsolidated bottom, subtidal, excavated wetland [E1UB1x].

NJDEP Wetland Mapping

According to a Geographic Information System (GIS) dataset provided by the NJDEP, no NJDEP wetlands are mapped on the Site. The closest NJDEP wetland is mapped approximately 100 feet south of the southwestern corner of the Site. This wetland is mapped as a palustrine, emergent, persistent, saturated wetland [PEM1B].

The wetlands and watercourses on-site were delineated by the EcolSciences, Inc. of Rockaway, New Jersey. According to the delineation, one wetland was identified in the eastern portion of the Site and it was delineated with flagging labeled W1 - W62, and WA-1 – WA-20. A Letter of Interpretation was received from the NJDEP and the wetland delineation line was determined to be correct. In addition, the NJDEP determined that the onsite wetland (i.e., South Branch Creek) is of intermediate resource value, thus a 50 foot regulatory buffer is required. Figure 3.2-2, "Wetlands Map", provides an illustration of the mapped wetlands on and adjacent to the Site.



THE Chazen COMPANIES

Engineers/Surveyors
Planners
Environmental Scientists
GIS Consultants

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:
21 Fox Street
Poughkeepsie, NY 12601
Phone: (845) 454-3980

Orange County Office:
356 Meadow Avenue
Newburgh, NY 12550
Phone: (845) 567-1133

Capital District Office:
547 River Street
Troy, NY 12180
Phone: (518) 273-0055

North Country Office:
110 Glen Street
Glens Falls, NY 12801
Phone: (518) 812-0513

This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of this map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

LCP Chemicals

Figure 3.0-1 Aerial Map

City of Linden
Union County, New Jersey

Created by:	JFT
Date:	09/14/06
Scale:	1:5,152
Project #:	70620.00

THE Chazen COMPANIES

Engineers/Surveyors
Planners
Environmental Scientists
GIS Consultants

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:	Orange County Office:	Capital District Office:	North Country Office:
21 Fox Street	356 Meadow Avenue	547 River Street	110 Glen Street
Poughkeepsie, NY 12601	Newburgh, NY 12550	Troy, NY 12180	Glens Falls, NY 12801
Phone: (845) 454-3980	Phone: (845) 567-1133	Phone: (518) 273-0055	Phone: (518) 812-0513

This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of this map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

LCP Chemicals

Figure 3.2-2 Wetlands Map

City of Linden
Union County, New Jersey

Created by:	JFT
Date:	09/14/06
Scale:	1:8,192
Project #:	70620.00

4.0 Results

The Site is a heavily developed area consisting of abandoned industrial buildings and a capped brine sludge lagoon. South Branch Creek is a man-made tidal ditch that originates near the east-central portion of the Site and flows east before discharging into the Arthur Kill. The Site primarily consists of three ecological communities including an urban vacant lot, capped brine sludge lagoon, and brackish tidal marsh.

The following sections provide descriptions of the types of ecological communities located within the Site. Section 4.2 describes the Site's fauna and habitat characteristics.

4.1 Ecological Communities

TCC staff identified 79 plant species within three ecological communities as described in *Ecological Communities of New York*[15] *and A Preliminary Natural Community Classification for New Jersey.*[16] Many of the plant species observed within the urban vacant lot and capped brine sludge lagoon (i.e., successional old field) communities were also observed in adjacent open fields. The mowed fields are located adjacent to the north and northeastern portions of the Site. These fields consist primarily of early successional species. Figure 4.1-1 "Ecological Communities Map" illustrates the approximate location of each of the community types on the Site. Representative photographs of each community type are included as Appendix B "Site Photographs".

During this EA, no federally and/or state endangered or threatened plant species were observed within the boundaries of the Site. The following presents a general description of the ecological communities observed within the Site.

Urban Vacant Lot, With Structures – The community type is located throughout the Site and consists of exposed soil, rubble, and derelict buildings. This community type makes up most of the Site as the Site is completely disturbed and has been abandoned since the early 1990's. Vegetation was sparse and consisted mostly of first successional recruitment species and invasive species typically found in urban areas. Trees are generally sparse and many exist as small saplings. Shrubs

[15] Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero (editors). 2002. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. (Draft for review). New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.136 pgs.
[16] Breden. T.F. A preliminary natural community classification for New Jersey. Repinted from: Karlin, E.F. [editor]. 1989. New Jersey's Rare and Endangered Plants and Animals. Institute for Environmental Studies, Ramapo College, Mahwah, NJ. 280p.

account for approximately 1-5% coverage in this community. The dominant shrub species include groundsel tree (*Baccharis halimifolia*), staghorn sumac (*Rhus typhina*), and white mulberry (*Morus alba*). The groundlayer accounts for approximately 20-25% of this community and is composed of common milkweed (*Asclepias syriaca*), spotted knapweed (*Centaurea maculosa*), pokeweed (*Phytolacca americana*), and common plantain (*Plantago major*). Table 4.1.1 provides a list of the species encountered within the urban vacant lot community.

Table 4.1.1 List of Species observed within the Urban Vacant Lot Community

Scientific Name	**Common Name**
Trees	
Ailanthus altissima	Tree of heaven
Acer rubrum	Red maple (saplings)
Catalpa speciosa	Northern catalpa
Liquidambar styraciflua	Sweet gum
Populus deltoides	Eastern cottonwood (saplings)
Populus tremuloides	Quaking aspen (saplings)
Robinia pseudoacacia	Black locust
Quercus rubra	Red oak
Shrubs	
Baccharis halimifolia	Groundsel tree
Clethra alnifolia	Coastal sweetpepperbush
Diospyros virginiana	Common persimmon
Elaeagnus umbellate	Autumn olive
Morus alba	White mulberry
Polygonum cuspidatum	Japanese knotweed
Rhus copallinum	Winged sumac
Rhus typhina	Staghorn sumac
Rosa multiflora	Multiflora rose
Rubus allegheniensis	Common blackberry
Viburnum recognitum	Southern arrowwood
Herbs	
Apocynum cannabinum	Indian hemp
Asclepias syriaca	Common milkweed
Aster spp.	Aster
Centaurea maculosa	Spotted knapweed
Chenopodium album	Pigweed
Chicorium intybus	Chicory
Cirsium arvense	Canada thistle
Newcomb, Lawrence. 1977. Newcomb's Wildflower Guide. Little, Brown and Company. Boston. Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero (editors). 2002. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. (Draft for review). New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.136 pgs.	

Table 4.1.1 List of Species observed within the Urban Vacant Lot Community (cont.)

Scientific Name	**Common Name**
Herbs (cont.)	
Cirsium vulgare	Bull thistle
Commelina communis	Asiatic dayflower
Daucus carota	Queen Anne's lace
Fragaria spp.	Strawberry
Hypericum perforatum	Common St. Johnswort
Lactusa serriola	Prickly lettuce
Lepidium virginicum	Wild peppergrass
Leucanthemum vulgare	Oxeye daisy
Linaria vulgaris	Butter-and-eggs
Lychnis alba	White campion
Lycopus americanus	American water horehound
Melilotus officinalis	Yellow sweet clover
Oxalis stricta	Yellow wood-sorrel
Phytolacca americana	Pokeweed
Plantago major	Common plantain
Polygonum hydropiper	Water pepper
Polygonum lapathifolium	Curlytop knotweed
Polygonum persicaria	Lady's thumb
Potentilla simplex	Common cinquefoil
Ranunculus acris	Tall buttercup
Rumex crispus	Curly dock
Solanum dulcamara	Bittersweet nightshade
Solidago canadensis	Canada goldenrod
Solidago juncea	Early goldenrod
Vines	
Celastrus scandens	American bittersweet
Convolvulus sepium	Hedge bindweed
Echinocystis lobata	Wild cucumber
Ipomoea purpurea	Common morning glory
Parthenocissus quinquefolia	Virginia creeper
Toxicodendron radicans	Poison ivy
Vitis aestivalis	Summer grape
Grasses and Sedges	
Cyperus esculentus	Yellow nutsedge
Cyperus strigosus	Strawcolored flatsedge
Digitaria spp.	Crabgrass
Elymus repens	Quackgrass
Phleum pratense	Timothy

Newcomb, Lawrence. 1977. Newcomb's Wildflower Guide. Little, Brown and Company. Boston.
Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero (editors). 2002. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. (Draft for review). New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.136 pgs.

Successional Old Field (i.e., Brine Sludge Lagoon) – This community is located in the east-central portion of the Site. It consists of a capped brine sludge lagoon that has become vegetated with early successional species. The former brine sludge lagoon has a clean cover and it is a closed RCRA lagoon. It is not part of the contaminated site. Over the years, the cap has become vegetated with early successional species such as daisy fleabane (*Erigeron strigosus*), narrowleaf plantain (*Plantago lanceolata*), clover (*Trifolium* spp.), and brome grass (*Bromus* sp.). A woodchuck (*Marmota monax*) burrow was observed at the western edge of the former brine sludge lagoon.

Table 4.1.1 List of Species observed within the Successional Old Field Community

Scientific Name	**Common Name**
Herbs	
Brassica spp.	Mustard
Chamaesyce maculata	Prostrate spurge
Erigeron strigosus	Daisy fleabane
Leontodon autumnalis	Fall dandelion
Linaria vulgaris	Butter-and-eggs
Lotus corniculatus	Birdsfoot trefoil
Plantago lanceolata	Narrowleaf plantain
Plantago major	Common plantain
Taraxacum officinale	Common dandelion
Trifolium pratense	Red clover
Trifolium repens	White clover
Verbascum thapsus	Common mullein
Vicia villosa	Winter vetch
Grasses and Sedges	
Aleopecurus spp.	Foxtail
Bromus spp.	Brome grass
Digitaria spp.	Crabgrass
Elymus repens	Quackgrass
Phleum pratense	Timothy

Newcomb, Lawrence. 1977. Newcomb's Wildflower Guide. Little, Brown and Company. Boston.
Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero (editors). 2002. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. (Draft for review). New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.136 pgs.

Brackish Tidal Marsh – This community is located in the eastern portion of the Site and includes South Branch Creek and its banks. South Branch Creek is a man-made ditch that has been excavated in artificial fill and a brackish tidal marsh. Over the years, the ditch has been filled and realigned to its current state. Vegetation within this community was dense and dominated by tall graminoids. Vegetation along the sides of the ditch consists primarily of common reed (*Phragmites australis*) and smooth cordgrass (*Spartina alternifolia*). Several bird

species including a little blue heron (*Egretta caerulea*), green heron (*Butorides virescens*), and swamp sparrow (*Melospiza georgiana*) were observed in this community. Mummichogs (*Fundulus* sp.), fiddler crabs (*Uca pugnax*), and ribbed mussels (*Geukensia demissa*) were relatively abundant in the marsh. Blue crabs (*Callinectes sapidus*) were also noted further out in South Branch Creek, closer to the Arthur Kill.

Table 4.1.2 List of Species observed within the Brackish Tidal Marsh Community

Scientific Name	**Common Name**
Grasses and Sedges	
Lythrum salicaria	Purple loosestrife
Phragmites australis	Common reed
Spartina alternifolia	Smooth cordgrass

Newcomb, Lawrence. 1977. Newcomb's Wildflower Guide. Little, Brown and Company. Boston.
Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero (editors). 2002. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. (Draft for review). New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.136 pgs.

THE Chazen COMPANIES
Engineers/Surveyors
Planners
Environmental Scientists
GIS Consultants

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:	Orange County Office:	Capital District Office:	North Country Office:
21 Fox Street	356 Meadow Avenue	547 River Street	110 Glen Street
Poughkeepsie, NY 12601	Newburgh, NY 12550	Troy, NY 12180	Glens Falls, NY 12801
Phone: (845) 454-3980	Phone: (845) 567-1133	Phone: (518) 273-0055	Phone: (518) 812-0513

This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of this map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

LCP Chemicals

Figure 4.1-1
Ecological Communities Map

City of Linden
Union County, New Jersey

Created by:	JFT
Date:	09/14/06
Scale:	1:4,219
Project #:	70620.00

4.2 Fauna

The fauna of the Site was also cataloged during the on-site investigation. In all, 42 species of wildlife were observed during the Site visits.

4.2.1 Mammals

Six mammalian species were either observed or recognized by their sign on or within the immediate vicinity of the Site (Table 4.2.1). A woodchuck burrow was observed at the former sludge lagoon; a mouse (*Peromyscus* sp.) nest was observed near an abandoned building; a raccoon (*Procyon lotor*) track was observed along the main access road through the site; a whitetail deer (*Odocoileus virginianus*) was observed near the abandoned buildings; a red fox (*Vulpes vulpes*) was observed along the railroad tracks; and an eastern cottontail (*Sylvilagus floridanus*) was observed in the vicinity of the Site. No aquatic mammals or endangered, threatened, or special concern mammalian species were observed within the Site.

Table 4.2.1 Mammal Species Observed

Scientific Name	Common Name	Habitat
Marmota monax	Woodchuck	SOF
Odocoileus virginanus	Whitetail deer	UVL
Peromyscus sp.	Mouse	UVL
Procyon lotor	Raccoon	UVL
Vulpes vulpes	Red fox	UVL
Sylvilagus floridanus	Eastern cottontail	OF (Adjacent to Site)
Ecological Communities: **SOF**- Successional Old Field, **UVL**- Urban Vacant Lot		

4.2.2 Reptiles and Amphibians

One reptile and one amphibian species were observed at the Site (Table 4.2.2). No endangered, threatened, or special concern reptile or amphibian species were observed within the Site.

Table 4.2.2 Reptile and Amphibian Species Observed

Scientific Name	Common Name	Habitat
Bufo americanus	American toad	UVL
Thamnophis sirtalis	Common garter snake	UVL
Ecological Communities: **BTM**- Brackish Tidal Marsh, **UVL**- Urban Vacant Lot		

4.2.3 Fish and Crustaceans

Three species of fish and eight species of crustaceans were observed during the field investigation (Table 4.2.3). No endangered, threatened, or special concern fish or crustacean species were observed within the Site.

Table 4.2.3 Fish and Crustaceans Species Observed

Scientific Name	Common Name	Habitat
Fish		
Fundulus diaphanous	Banded killifish	BTM
Fundulus heteroclitus	Mummichog	BTM
Fundulus majalis	Striped mummichog	BTM
Crustaceans		
Balanus spp.	Barnacle	BTM
Callinectes sapidus	Blue crab	BTM
Carcinus maenas	Green crab	BTM
Geukensia demissa	Ribbed mussel	BTM
Neopanopeus sayi	Black-fingered mud crab	BTM
Palaemontetes spp.	Grass shrimp	BTM
Uca minax	Red-jointed fiddler crab	BTM
Uca pugnax	Atlantic Marsh fiddler crab	BTM
Ecological Communities: **BTM**- Brackish Tidal Marsh, **UVL**- Urban Vacant Lot		

4.2.4 Birds

Twenty-three species of birds were observed on or within the immediate vicinity of the Site (Table 4.2.4). Thirteen of the species were observed on-site and 10 species were observed in tidal marshes within ½ mile of the Site. Associations between bird species and their corresponding preferred habitat types were noted during the investigation. All avian species observed are common in New Jersey/New York and are typically found within the communities they were observed in. No ETR bird species were observed during the field investigation.

Since the Site is located within the Atlantic coast migration corridor, numerous migrating land and water birds could potentially use the site or surrounding area as a stopover/overwintering site. The Atlantic coast is regularly used by migrating birds and approximately 50 different kinds of landbirds travel this flyway.[17] Flocks of Canada geese (*Branta canadensis*) and mourning doves (*Zenaida macroura*) were observed in mowed fields adjacent to the Site during the field investigations.

[17] Peterson, S.R. 1979. Atlantic Coast Route and Tributaries. Migration of Birds. Fish and Wildlife Service, Circular 16. pg. 70.

Table 4.2.4 Bird Species Observed

Scientific Name	Common Name	Habitat
Birds		
Agelaius phoeniceus	Red-winged blackbird	BTM
Anas platyrhynchos	Mallard	Arthur kill
Anas rubripes	American black duck	Piles Creek
Ardea herodias	Great blue heron	Piles Creek
Botaurus lentiginosus	American bittern	Rahway Creek
Branta canadensis	Canada goose	UVL, Arthur Kill
Butorides virescens	Green heron	BTM
Calidris minutilla	Least sandpiper	Piles Creek
Casmerodius albus	Great egret	Piles Creek
Charadrius vociferus	Killdeer	UVL
Dumetella carolinensis	Gray catbird	UVL
Egretta caerulea	Little blue heron	BTM
Egretta thula	Snowy egret	Piles Creek
Hirundo rustica	Barn swallow	UVL
Larus atricilla	Laughing gull	Piles Creek
Larus argentatus	Herring gull*	UVL
Melospiza georgiana	Swamp sparrow	BTM
Melospiza melodia	Song sparrow	UVL
Mimus polyglottos	Northern mockingbird	UVL
Phalacrocorax auritus	Double-crested cormorant	Arthur kill
Sterna hirundo	Common tern	Rahway Creek
Sturnus vulgaris	European starling	UVL
Zenaida macroura	Mourning dove	UVL
Ecological Communities: **BTM**- Brackish Tidal Marsh, **UVL**- Urban Vacant Lot * denotes a flyover		

4.2.5 Endangered, Threatened, and Rare Wildlife Species

During this EA, no ETR species were found on the Site. According to the Comprehensive List of Federally Listed, Threatened, and Endangered Species of New Jersey, the Indiana bat (*Myotis soldalis*) is the only federally protected ETR species known historically to be in the City of Linden municipality. Based upon the habitat found within the Site, it is unlikely that Indiana bats are found in the project area. The abandoned buildings throughout the Site could provide suitable habitat for Indiana bats; however, no bats were observed during the site visits.

Indiana bat roosts typically are identified by trees with exfoliating bark in open tree canopies where there is significant exposure to sunlight. There are very few trees on the Site, and the closest black locust was a single tree approximately 1,000 feet north of the Site. Several black locust trees were identified along the Rahway River corridor approximately ½ mile away. These trees were approximately 15 feet high with insufficient diameters and physical structures for roosting.

According to the NYSDEC, pied-billed grebes and yellow-crowned night herons are recorded approximately ¼ from the Site. Based upon the habitat found within the Site, potential nonbreeding habitat for pied-billed grebes and foraging habitat for yellow-crowned night herons exists within the Site. The brackish tidal marsh community located in the eastern portion of the Site is dominated by common reed and smooth cordgrass, which is commonly associated with yellow-crowned night heron foraging habitat. Nesting habitat for both of these species was not observed within the Site.

5.0 CONCLUSIONS

The project area is an abandoned industrial site consisting of deteriorating buildings and disturbed land. One watercourse (i.e., South Branch Creek) flows east, discharging into the Arthur Kill, which eventually flows into the Raritan Bay.

The wildlife species observed during this EA are all fairly common to the area. Pralls Island, located approximately 1,200 feet to the east of the project within the Arthur Kill is part of a Harbor Herons Sanctuary, owned by the NYC Department of Parks and Recreation. The uninhabited island provides a nesting habitat for numerous birds, including herons, shorebirds, gulls, waterfowl, and songbirds. However, declining populations of herons have been noted on this island.

In regards to ETR species, there were no ETR species or significant ecological communities observed within or in the immediate vicinity of the project area. The brackish tidal marsh community, located in the eastern portion of the Site, is the only area onsite which may provide suitable nonbreeding and foraging habitat for the state-endangered pied-billed grebe and state-threatened yellow-crowned night heron. Although this community may provide low-grade habitat for these species, plenty of similar habitat is located in the surrounding area (i.e., Piles Creek, Rahway River). Since both species are highly mobile and because the Site does not provide nesting habitat, it is expected that the both species would migrate and use similar habitat in the surrounding area.

As this Site has been subject to highly industrialized previous land uses, it is highly modified and disturbed. This has led to a species assemblage of generalists and/or early successional/weedy/invasive species. The flora and fauna species found on the site are typical species that would be found in heavily industrialized areas within intertidal marsh ecosystems. As most of the species found on-site are mobile, it is anticipated that they will migrate to higher quality habitat in the surrounding areas such as Piles Creek and the Arthur Kill. Vegetative species found within the Site are very common to highly disturbed areas and possess no special protection. All species observed or documented in the intertidal marsh community are common species in this habitat type and are secure in the region.

Appendix A: Correspondence

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Poughkeepsie Office
Phone: (845) 454-3980

Capital District Office
Phone: (518) 273-0055

356 Meadow Avenue, Newburgh, New York 12550
Phone: (845) 567-1133 Fax: (845) 567-1925
Email: newburgh@chazencompanies.com
Web: www.chazencompanies.com

North Country Office
Phone: (518) 812-0513

August 8, 2006

Office of Natural Lands Management
Natural Heritage Program
PO Box 404
22 South Clinton Avenue
Trenton, NJ 08625-0404

Re: Freedom of Information Request, Threatened or Endangered Species
26 Acre Site Located at the foot of South Wood Avenue
City of Linden, Union County, New Jersey

Dear Sir or Madam:

The Chazen Companies are in the process of conducting a natural resource inventory at the above referenced property. The approximately 26-acre site is located at the foot of South Wood Avenue in the City of Linden, Union County, New Jersey. The tax parcel map for this area identifies the property as parcel #'s (i.e., Block and Lot number): 587 3.1, 587 3.2, and 587 3.3. Please find the enclosed USGS topographic map (Arthur Kill Quadrangle) illustrating the approximate location of the subject property.

The project site has been designated a superfund site by the Environmental Protection Agency (EPA). As part of a Phase II Remedial Investigation at the LCP Chemicals Superfund Site, an on site habitat assessment will be conducted. All species will be inventoried on the property.

Please provide any information you have concerning known occurrences of endangered, threatened and/or special concern wildlife species as well as rare plant, animal, natural community occurrences, or other significant habitats either on the site or in the immediate surrounding area. This information will help us focus on habitat which may be critical to endangered or threatened species.

If you have any questions, please do not hesitate to contact me at (845) 567-1133 if you have any questions. Thank you for your assistance.

Sincerely,

Jason Tourscher

Jason Tourscher
Wetland Scientist/Biologist

Enclosure

\\Acad110\n\7\70600-70699\70620.00-Brown and Caldwell\HA\FOILS\NJNHP 08082006 (jft).doc

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JON S. CORZINE
Governor

LISA P. JACKSON
Commissioner

Division of Parks and Forestry
Office of Natural Lands Management
Natural Heritage Program
P.O. Box 404
Trenton, NJ 08625-0404
Tel. #609-984-1339
Fax. #609-984-1427

August 31, 2006

Jason Tourscher
The Chazen Companies
356 Meadow Avenue
Newburgh, NY 12550

Re: LCP Chemicals Superfund Site

Dear Mr. Tourscher:

Thank you for your data request regarding rare species information for the above referenced project site in Linden City, Union County.

Searches of the Natural Heritage Database and the Landscape Project (Version 2) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the topographic map(s) submitted with the Request for Data into our Geographic Information System. We do not typically verify that your project bounds are accurate, or check them against other sources.

Neither the Natural Heritage Database nor the Landscape Project has records for any rare wildlife species on the referenced site.

We have also checked the Natural Heritage Database and the Landscape Project habitat mapping for occurrences of any rare wildlife species or wildlife habitat within 1/4 mile of the referenced site. Please see the table below for species list and conservation status.

Species within 1/4 mile of referenced site.

Common Name	Scientific Name	Federal Status	State Status	Grank	Srank
black-crowned night-heron foraging habitat	*Nycticorax nycticorax*		T/S	G5	S3B,S4N
colonial waterbird foraging habitat					
yellow-crowned night-heron foraging habitat	*Nyctanassa violacea*		T/T	G5	S2B

We have also checked the Natural Heritage Database for occurrences of rare plant species or ecological communities. The Natural Heritage Database does not have any records for rare plants or ecological communities on or within 1/4 mile of the site.

Attached is a list of rare species and ecological communities that have been documented from Union County. If suitable habitat is present at the project site, these species have potential to be present.

Status and rank codes used in the tables and lists are defined in the attached EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS.

If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive I-Map-NJ website at the following URL, http://www.state.nj.us/dep/gis/depsplash.htm or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program.

PLEASE SEE THE ATTACHED 'CAUTIONS AND RESTRICTIONS ON NHP DATA'.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,

Herbert A. Lord

Herbert A. Lord
Data Request Specialist

cc: Robert J. Cartica
Lawrence Niles
NHP File No. 06-4007452

CAUTIONS AND RESTRICTIONS ON NATURAL HERITAGE DATA

The quantity and quality of data collected by the Natural Heritage Program is dependent on the research and observations of many individuals and organizations. Not all of this information is the result of comprehensive or site-specific field surveys. Some natural areas in New Jersey have never been thoroughly surveyed. As a result, new locations for plant and animal species are continuously added to the database. Since data acquisition is a dynamic, ongoing process, the Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of New Jersey. Information supplied by the Natural Heritage Program summarizes existing data known to the program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments. The attached data is provided as one source of information to assist others in the preservation of natural diversity.

This office cannot provide a letter of interpretation or a statement addressing the classification of wetlands as defined by the Freshwater Wetlands Act. Requests for such determination should be sent to the DEP Land Use Regulation Program, P.O. Box 401, Trenton, NJ 08625-0401.

The Landscape Project was developed by the Division of Fish & Wildlife, Endangered and Nongame Species Program in order to map critical habitat for rare animal species. Natural Heritage Database response letters will also list all species (if any) found during a search of the Landscape Project. However, this office cannot answer any inquiries about the Landscape Project. All questions should be directed to the DEP Division of Fish and Wildlife, Endangered and Nongame Species Program, P.O. Box 400, Trenton, NJ 08625-0400.

This cautions and restrictions notice must be included whenever information provided by the Natural Heritage Database is published.

NJ Department of Environmental Protection
Division of Parks and Forestry
Natural Lands Management

30 AUG 2004

UNION COUNTY

RARE SPECIES AND NATURAL COMMUNITIES PRESENTLY RECORDED IN

THE NEW JERSEY NATURAL HERITAGE DATABASE

	NAME	COMMON NAME	FEDERAL STATUS	STATE STATUS	REGIONAL STATUS	GRANK	SRANK
*** Vertebrates							
	BARTRAMIA LONGICAUDA	UPLAND SANDPIPER		E		G5	S1B
	CLEMMYS INSCULPTA	WOOD TURTLE		T		G4	S3
	CLEMMYS MUHLENBERGII	BOG TURTLE	LT	E		G3	S2
	EURYCEA LONGICAUDA LONGICAUDA	LONGTAIL SALAMANDER		T		G5T5	S2
	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW		T/T		G5	S2B,S4N
	STERNA ANTILLARUM	LEAST TERN		E		G4	S1B
	STRIX VARIA	BARRED OWL		T/T		G5	S3B
*** Ecosystems							
	TRAPROCK GLADE/ROCK OUTCROP COMMUNITY	TRAPROCK GLADE/ROCK OUTCROP COMMUNITY				G2	S1
*** Invertebrates							
	ALASMIDONTA UNDULATA	TRIANGLE FLOATER		T		G4	S3
	PAPAIPEMA AERATA	A BORER MOTH				GH	SH
	POLITES MYSTIC	LONG DASH				G5	S3?
	PONTIA PROTODICE	CHECKERED WHITE		T		G4	S1
*** Other types							
	COASTAL HERON ROOKERY	COASTAL HERON ROOKERY				GU	S3
*** Vascular plants							
	CAREX BEBBII	BEBB'S SEDGE				G5	S2
	CAREX POLYMORPHA	VARIABLE SEDGE		E		G3	S1
	CYNOGLOSSUM VIRGINIANUM VAR VIRGINIANUM	WILD COMFREY				G5T5	S2
	LEMNA VALDIVIANA	PALE DUCKWEED		E		G5	S1
	LIATRIS SCARIOSA VAR NOVAE-ANGLIAE	NORTHERN BLAZING-STAR		E		G5?T3	SH

UNION COUNTY
RARE SPECIES AND NATURAL COMMUNITIES PRESENTLY RECORDED IN
THE NEW JERSEY NATURAL HERITAGE DATABASE

NAME	COMMON NAME	FEDERAL STATUS	STATE STATUS	REGIONAL STATUS	GRANK	SRANK
MIMULUS ALATUS	WINGED MONKEY-FLOWER				G5	S3
MONARDA CLINOPODIA	BASIL BEEBALM		E		G5	SH
MUHLENBERGIA CAPILLARIS	LONG-AWN SMOKE GRASS		E		G5T?	S1
PHLOX PILOSA	DOWNY PHLOX		E		G5T5	SH
RANUNCULUS PUSILLUS VAR PUSILLUS	LOW SPEARWORT				G5T4?	S2
VIOLA CANADENSIS	CANADIAN VIOLET		E		G5T?	S1

24 Records Processed

EXPLANATIONS OF CODES USED IN NATURAL HERITAGE REPORTS

FEDERAL STATUS CODES

The following U.S. Fish and Wildlife Service categories and their definitions of endangered and threatened plants and animals have been modified from the U.S. Fish and Wildlife Service (F.R. Vol. 50 No. 188; Vol. 61, No. 40; F.R. 50 CFR Part 17). Federal Status codes reported for species follow the most recent listing.

LE	Taxa formally listed as endangered.
LT	Taxa formally listed as threatened.
PE	Taxa already proposed to be formally listed as endangered.
PT	Taxa already proposed to be formally listed as threatened.
C	Taxa for which the Service currently has on file sufficient information on biological vulnerability and threat(s) to support proposals to list them as endangered or threatened species.
S/A	Similarity of appearance species.

STATE STATUS CODES

Two animal lists provide state status codes after the Endangered and Nongame Species Conservation Act of 1973 (NSSA 23:2A-13 et. seq.): the list of endangered species (N.J.A.C. 7:25-4.13) and the list defining status of indigenous, nongame wildlife species of New Jersey (N.J.A.C. 7:25-4.17(a)). The status of animal species is determined by the Nongame and Endangered Species Program (ENSP). The state status codes and definitions provided reflect the most recent lists that were revised in the New Jersey Register, Monday, June 3, 1991.

D	Declining species-a species which has exhibited a continued decline in population numbers over the years.
E	Endangered species-an endangered species is one whose prospects for survival within the state are in immediate danger due to one or many factors - a loss of habitat, over exploitation, predation, competition, disease. An endangered species requires immediate assistance or extinction will probably follow.
EX	Extirpated species-a species that formerly occurred in New Jersey, but is not now known to exist within the state.
I	Introduced species-a species not native to New Jersey that could not have established itself here without the assistance of man.
INC	Increasing species-a species whose population has exhibited a significant increase, beyond the normal range of its life cycle, over a long term period.
T	Threatened species-a species that may become endangered if conditions surrounding the species begin to or continue to deteriorate.
P	Peripheral species-a species whose occurrence in New Jersey is at the extreme edge of its present natural range.
S	Stable species-a species whose population is not undergoing any long-term increase/decrease within its natural cycle.
U	Undetermined species-a species about which there is not enough information available to determine the status.

Status for animals separated by a slash(/) indicate a duel status. First status refers to the state breeding population, and the second status refers to the migratory or winter population.

Special Concern applies to animal species that warrant special attention because of some evidence of decline, inherent vulnerability to environmental deterioration, or habitat modification that would result in their becoming a Threatened species. This category would also be applied to species that meet the foregoing criteria and for which there is little understanding of their current population status in the state.

Plant taxa listed as endangered are from New Jersey's official Endangered Plant Species List N.J.S.A. 131B-15.151 et seq.

E Native New Jersey plant species whose survival in the State or nation is in jeopardy.

REGIONAL STATUS CODES FOR PLANTS AND ECOLOGICAL COMMUNITIES

LP Indicates taxa listed by the Pinelands Commission as endangered or threatened within their legal jurisdiction. Not all species currently tracked by the Pinelands Commission are tracked by the Natural Heritage Program. A complete list of endangered and threatened Pineland species is included in the New Jersey Pinelands Comprehensive Management Plan.

HL Indicates taxa or ecological communities protected by the Highlands Water Protection and Planning Act within the jurisdiction of the Highlands Preservation Area.

EXPLANATION OF GLOBAL AND STATE ELEMENT RANKS

The Nature Conservancy has developed a ranking system for use in identifying elements (rare species and natural communities) of natural diversity most endangered with extinction. Each element is ranked according to its global, national, and state (or subnational in other countries) rarity. These ranks are used to prioritize conservation work so that the most endangered elements receive attention first. Definitions for element ranks are after The Nature Conservancy (1982: Chapter 4, 4.1-1 through 4.4.1.3-3).

GLOBAL ELEMENT RANKS

G1 Critically imperiled globally because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.

G2 Imperiled globally because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extinction throughout its range.

G3 Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g., a single western state, a physiographic region in the East) or because of other factors making it vulnerable to extinction throughout it's range; with the number of occurrences in the range of 21 to 100.

G4 Apparently secure globally; although it may be quite rare in parts of its range, especially at the periphery.

G5 Demonstrably secure globally; although it may be quite rare in parts of its range, especially at the periphery.

GH Of historical occurrence throughout its range i.e., formerly part of the established biota, with the expectation that it may be rediscovered.

GU Possibly in peril range-wide but status uncertain; more information needed.

GX Believed to be extinct throughout range (e.g., passenger pigeon) with virtually no likelihood that it will be rediscovered.

G? Species has not yet been ranked.

GNR Species has not yet been ranked.

STATE ELEMENT RANKS

S1 Critically imperiled in New Jersey because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres). Elements so ranked are often restricted to very specialized conditions or habitats and/or restricted to an extremely small geographical area of the state. Also included are elements which were formerly more abundant, but because of habitat destruction or some other critical factor of its biology, they have been demonstrably reduced in abundance. In essence, these are elements for which, even with intensive searching, sizable additional occurrences are unlikely to be discovered.

S2 Imperiled in New Jersey because of rarity (6 to 20 occurrences). Historically many of these elements may have been more frequent but are now known from very few extant occurrences, primarily because of habitat destruction. Diligent searching may yield additional occurrences.

S3 Rare in state with 21 to 100 occurrences (plant species and ecological communities in this category have only 21 to 50 occurrences). Includes elements which are widely distributed in the state but with small populations/acreage or elements with restricted distribution, but locally abundant. Not yet imperiled in state but may soon be if current trends continue. Searching often yields additional occurrences.

S4 Apparently secure in state, with many occurrences.

S5 Demonstrably secure in state and essentially ineradicable under present conditions.

SA Accidental in state, including species (usually birds or butterflies) recorded once or twice or only at very great intervals, hundreds or even thousands of miles outside their usual range; a few of these species may even have bred on the one or two occasions they were recorded; examples include European strays or western birds on the East Coast and vice-versa.

SE Elements that are clearly exotic in New Jersey including those taxa not native to North America (introduced taxa) or taxa deliberately or accidentally introduced into the State from other parts of North America (adventive taxa). Taxa ranked SE are not a conservation priority (viable introduced occurrences of G1 or G2 elements may be exceptions).

SH Elements of historical occurrence in New Jersey. Despite some searching of historical occurrences and/or potential habitat, no extant occurrences are known. Since not all of the historical occurrences have been field surveyed, and unsearched potential habitat remains, historically ranked taxa are considered possibly extant, and remain a conservation priority for continued field work.

SP Element has potential to occur in New Jersey, but no occurrences have been reported.

SR Elements reported from New Jersey, but without persuasive documentation which would provide a basis for either accepting or rejecting the report. In some instances documentation may exist, but as of yet, its source or location has not been determined.

SRF Elements erroneously reported from New Jersey, but this error persists in the literature.

SU Elements believed to be in peril but the degree of rarity uncertain. Also included are rare taxa of uncertain taxonomical standing. More information is needed to resolve rank.

SX Elements that have been determined or are presumed to be extirpated from New Jersey. All historical occurrences have been searched and a reasonable search of potential habitat has been completed. Extirpated taxa are not a current conservation priority.

SXC Elements presumed extirpated from New Jersey, but native populations collected from the wild exist in cultivation.

SZ Not of practical conservation concern in New Jersey, because there are no definable occurrences, although the taxon is native and appears regularly in the state. An SZ rank will generally be used for long distance migrants whose occurrences during their migrations are too irregular (in terms of repeated visitation to the same locations), transitory, and dispersed to be reliably identified, mapped and protected. In other words, the migrant regularly passes through the state, but enduring, mappable element occurrences cannot be defined.

Typically, the SZ rank applies to a non-breeding population (N) in the state – for example, birds on migration. An SZ rank may in a few instances also apply to a breeding population (B), for example certain lepidoptera which regularly die out every year with no significant return migration.

Although the SZ rank typically applies to migrants, it should not be used indiscriminately. Just because a species is on migration does not mean it receives an SZ rank. SZ will only apply when the migrants occur in an irregular, transitory and dispersed manner.

B Refers to the breeding population of the element in the state.

N Refers to the non-breeding population of the element in the state.

T Element ranks containing a "T" indicate that the infraspecific taxon is being ranked differently than the full species. For example *Stachys palustris* var. *homotricha* is ranked "G5T? SH" meaning the full species is globally secure but the global rarity of the var. *homotricha* has not been determined; in New Jersey the variety is ranked historic.

Q Elements containing a "Q" in the global portion of its rank indicates that the taxon is of questionable, or uncertain taxonomical standing, e.g., some authors regard it as a full species, while others treat it at the subspecific level.

.1 Elements documented from a single location.

Note: To express uncertainty, the most likely rank is assigned and a question mark added (e.g., G2?). A range is indicated by combining two ranks (e.g., G1G2, S1S3).

IDENTIFICATION CODES

These codes refer to whether the identification of the species or community has been checked by a reliable individual and is indicative of significant habitat.

Y Identification has been verified and is indicative of significant habitat.

BLANK Identification has not been verified but there is no reason to believe it is not indicative of significant habitat.

? Either it has not been determined if the record is indicative of significant habitat or the identification of the species or community may be confusing or disputed.

Revised May 2005

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Capital District Office
Phone: (518) 273-0055

Orange County Office
Phone: (845) 567-1133

21 Fox Street, Poughkeepsie, New York 12601
Phone: (845) 454-3980 Fax: (845) 454-4026
Email: poughkeepsie@chazencompanies.com
Web: www.chazencompanies.com

North Country Office
Phone: (518) 812-0513

October 3, 2006

Ms. Jean Pietrusiak
NYSDEC - Information Services
NY Natural Heritage Program
625 Broadway, 5th Floor
Albany, NY 12233-4754

Re: Freedom of Information Request, Threatened or Endangered Species
Site Located adjacent to Old Place Creek
South of Port Ivory, Richmond County, New York

Dear Ms. Pietrusiak:

The Chazen Companies are in the process of conducting a Phase II Remedial Investigation and Ecological Risk Assessment (ERA) of a 26-acre site in the City of Linden, Union County, New Jersey. As part of the remediation process, a reference stream within the vicinity of the site is being studied.

The reference stream is located along Old Place Creek, which is located south of Port Ivory, Richmond County, New York. Old Place Creek is located below the Goethals Bridge which connects New Jersey and Staten Island. Please find the enclosed USGS topographic maps (Arthur Kill and Elizabeth Quadrangle) illustrating the approximate location of the site and reference stream. The land use surrounding the site and reference stream is industrial. Brackish tidal marshes are located adjacent to the reference stream.

Please provide any information you have concerning known occurrences of endangered, threatened and/or special concern wildlife species as well as rare plant, animal, natural community occurrences, or other significant habitats either at the reference stream site or in the immediate surrounding area. Also, although the 26-acre site is located within New Jersey, we are requesting any information you may have for the portion of New York (i.e., Chelsea, New York) which is located east of the site.

If at all possible, please fax the requested information to me at (845) 567-1925. Please do not hesitate to contact me at (845) 567-1133 if you have any questions.

Thank you for your assistance.

Sincerely,

Jason Tourscher

Jason Tourscher
Wetland Scientist/Biologist

N:\7\70600-70699\70620.00-Brown and Caldwell\HA\Reference Stream\FOILS\DEC FOIL 10-3-06 (jft).doc

New York State Department of Environmental Conservation
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **FAX:** (518) 402-8925
Website: www.dec.state.ny.

Denise M. Sheehan
Commissioner

October 27, 2006

Jason Tourscher
Chazen Engineering
21 Fox Street
Poughkeepsie, NY 12601

Dear Mr. Tourscher:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to an Environmental Assessment for the proposed 26-acre Phase II Remedial Investigation and Ecological Risk Assessment, area along Old Place Creek below Goethals Bridge which connects New Jersey and Staten Island, area as indicated on the map you provided, located in Richmond County, New York State.

Enclosed is a report of rare or state-listed animals and plants, significant natural communities, and other significant habitats, which our databases indicate occur, or may occur, on your site or in the immediate vicinity of your site. The information contained in this report is considered sensitive and should not be released to the public without permission from the New York Natural Heritage Program.

The presence of rare species may result in this project requiring additional permits, permit conditions, or review. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, at the enclosed address.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement on presence or absence of all rare or state-listed species or significant natural communities. This information should not be substituted for on-site surveys that may be required for environmental impact assessment.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

Sincerely,

Tara Seoane

Tara Seoane, Information Services
NY Natural Heritage Program

Enc.
cc: Reg. 2, Wildlife Mgr
Reg. 2, Fisheries Mgr.
Peter Nye, Endangered Species Unit, Albany
Jack Cooper, Fish and Wildlife, Albany

COMPREHENSIVE LIST OF NEW JERSEY MUNICIPALITIES WITH EXTANT AND HISTORIC OCCURRENCES OF FEDERALLY LISTED THREATENED AND ENDANGERED SPECIES, AND CANDIDATE SPECIES, PURSUANT TO THE ENDANGERED SPECIES ACT OF 1973
(87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*)

{Revised June 2004; Bald eagle data revised July 2005}

1. SPECIES OCCURRENCES BY COUNTY AND MUNICIPALITY

Index of symbols used in the tables:
- T – Federally listed as threatened.
- E – Federally listed as endangered.
- X – Known occurrence of extant federally listed or candidate species.
- H – Historic occurrence of federally listed or candidate species.
- W – Wintering foraging habitat for bald eagles.

2. FEDERALLY LISTED THREATENED AND ENDANGERED SPECIES AND CANDIDATE SPECIES IN NEW JERSEY UNDER U.S. FISH AND WILDLIFE SERVICE JURISDICTION (Species Narratives)

LISTED SPECIES - PLANTS
- Swamp pink (*Helonias bullata*)
- Knieskern's beaked-rush (*Rhynchospora knieskernii*)
- Sensitive joint-vetch (*Aeschynomene virginica*)
- American chaffseed (*Schwalbea americana*)
- Small whorled pogonia (*Isotria medeoloides*)
- Seabeach amaranth (*Amaranthus pumilus*)

LISTED SPECIES - INVERTEBRATES
- Dwarf wedgemussel (*Alasmidonta heterodon*)
- Northeastern beach tiger beetle (*Cicindela dorsalis dorsalis*)

LISTED SPECIES - REPTILES
- Bog turtle (*Clemmys muhlenbergii*)

LISTED SPECIES - BIRDS
- Bald eagle (*Haliaeetus leucocephalus*)
- Piping plover (*Charadrius melodus*)
- Roseate tern (*Sterna dougallii*)

LISTED SPECIES - MAMMALS
- Indiana bat (*Myotis sodalis*)

CANDIDATE SPECIES
- Bog asphodel (*Narthecium americanum*)
- Hirst's panic grass (*Dichanthelium hirstii*)

DELISTED SPECIES
- Peregrine falcon (*Falco peregrinus*)

UNION COUNTY

The species listed below are known to occur in at least one of the Union County municipalities listed below.

Species	
Bog Turtle	
Indiana Bat	(*)

Municipalities
Berkeley Heights Township
Mountainside Borough
Scotch Plains Township
Summit City

(*) Indiana bats may occur in any municipality within Union County

Appendix B:
Site Photographs

Photo #1
Northern view of the urban vacant lot ecological community located throughout the majority of the Site.

Photo #2
Southern view of abandoned buildings located within the central portion of the Site

Photo #3
Eastern view of South Branch Creek

Photo #4
View of fiddler crabs within South Branch Creek

Photo #5
View of the eastern shore of Pralls Island and the Arthur Kill

Photo #6
View of successional fields surrounding the Site. Bulk petroleum storage tanks are located in the distance.

Photo #7
View of the urban vacant lot community along the southern Site boundary

Photo #8
View of the eastern slope of the capped sludge lagoon

Photo #9
Northeastern view of Pile's Creek. The DuPont chemical plant is in the background

Photo #10
Southeastern view of Rahway Creek. Valero LP petroleum storage tanks are displayed in the background.

Appendix G: Representative Photographic Logs

Photograph #1 – Use of coring device for sediment sampling.

Photograph #2–Detachment of core during sediment sampling.

Photograph #3 – Use of Petite Ponar dredge for sediment sampling.

Photograph #4 – Grab sample during surface water sampling.

Photograph #5 – Surface water grab sample collection.

Photograph #6 – Low marsh soil sampling.

Photograph #7 – Homogenizing low marsh soil sample.

Photograph #8 – Collecting fiddler crabs.

Photograph #9 – Fiddler crab yield for two sample stations.

Photograph #10 – Weighing fiddler crabs.

Photograph #11 – Baited traps for mummichog.

Photograph #12 – Baited trap in water at transect.

Photograph #13 – Fish yield at transect.

Photograph #14 – Measuring fish samples.

Photograph #1 – Deep soil drilling with hollow-stem auger rig.

Photograph #2 – Deep soil sampling, split-tube samples.

Photograph #3 – Shallow soil using GeoProbe direct push sampler.

Photograph #4 – Shallow soil using GeoProbe direct push sampler.

Photograph #5 – Horizontal boring drill rods advanced into shallow trench before proceeding beneath Buildings 230 and 240.

Photograph #6 – Horizontal drilling rig. Drill rods being advanced into and through shallow trench.

Photograph #7 – Elemental mercury from sample HB-105A.

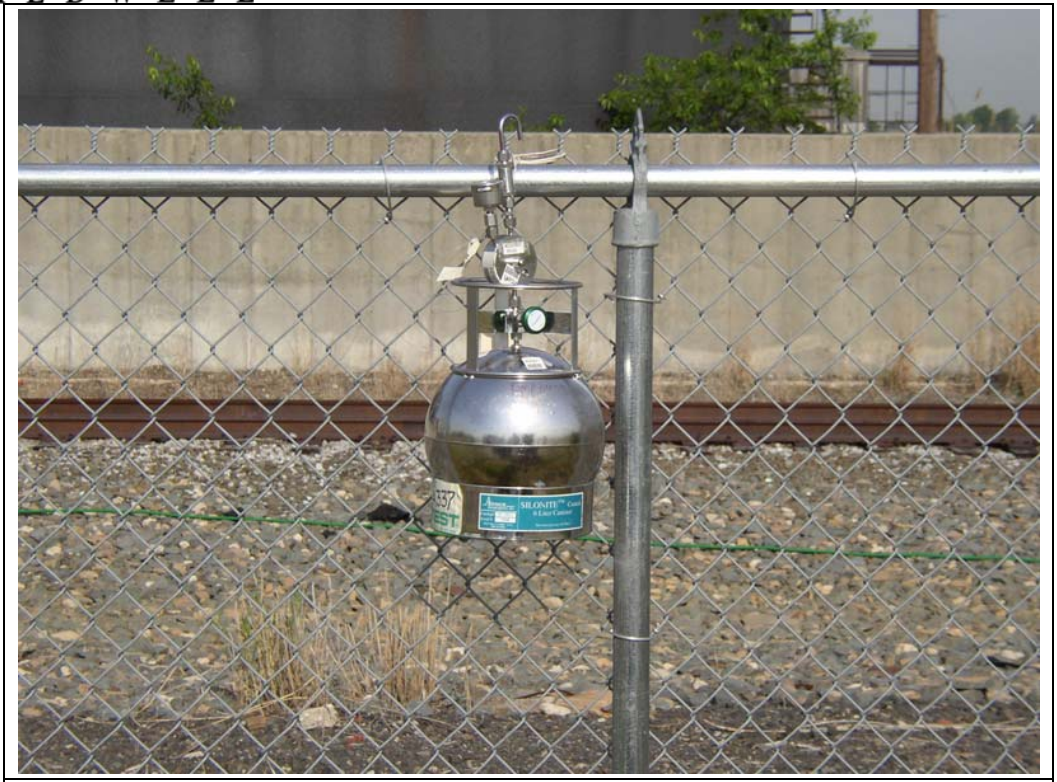
Photograph #8 – Elemental mercury beads on soil (in lower right-hand corner) discovered while digging shallow trench for HB-103. Trench was abandoned and area taped off.

Photograph #9 – Groundwater sample collection.

Photograph #10 – Groundwater sample collection.

Photograph #11 – Mercury soil vapor screening using a Jerome 431B mercury vapor analyzer.

Photograph #12 – Collection of mercury soil vapors via method IO-5. Gold-bead traps are placed inside heated-tube (bottom left of photo)to reduce moisture in sample.



Photograph #13 – Ambient air sample collected in six-liter summa canister.

Photograph #14 – Purging soil vapor probe and monitoring mercury vapors for health and safety purposes.

Photograph #15 – Collection of duplicate soil vapor samples in 1-liter summa canister.

Remedial Investigation Report
LCP Chemicals, Inc. Superfund Site
Linden, New Jersey
Volume III of V
Appendices H through K

Prepared for
ISP Environmental Services, Inc.
500 Hercules Road
Wilmington, Delaware 19808-1599

July 2013

Project Number: 137005

Brown AND Caldwell
2 Park Way, Suite 2A
Upper Saddle River, New Jersey 07458

Appendix H: Analytical Lab Deliverables (DVD)

Appendix I: Data Validation Reports

RECEIVED
OCT 2 6 2001
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

CAD

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E95157
Sampling Dates: July 17, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

October 24, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010/ 7471A/ 7470A
TLN-3-0-.5	Water	E95157-1	X*	X	X	X	X
TLN-3-2-4	Water	E95157-2	X*	X	X	X	X
ADS-7-0-.5	Water	E95157-3	X	X	X	X	X
ADS-1-0-.5	Water	E95157-4	X	X	X	X	X
PCA-1-0-.5	Water	E95157-5	X	X	X	X	X
PCA-1-4-6	Water	E95157-6	X	X	X	X	X
PCA-2-0-.5	Water	E95157-7	X	X*	X*	X	X
SR-1-0-.5	Water	E95157-9	X	X	X	X	X
SR-2-0-.5	Water	E95157-10	X	X	X	X	X
FB01-011707	Water	E95157-11	X	X	X	X	X

*reanalyzed

R2-0004010

Introduction

No. of Samples/Matrix:	10 Soil samples
Sample Delivery Groups (SDG):	E95157
Sampling Date:	July 17, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: The Field blank reported methylene chloride contamination. This resulted in all detected methylene chloride results being qualified as non-detects at CRDL. The recovery for one surrogate exceeded acceptable QC limits for sample TLN-3-2-4. Acetone, chloroform and benzene are the affected compounds and were qualified with the "J" validation flag to indicate the results are estimated due to this anomaly. A trip blank was reported in the sample summary but neither raw data nor Form 1 was presented with this SDG.

Pesticide: All results are acceptable

PCB: All results are acceptable.

Metals: Vanadium and zinc results were qualified as estimated "J" due to serial dilution recoveries that were outside QC limits. Antimony and lead results were qualified estimated "UJ/J" due to low matrix spike recovery.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004011

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not included with this SDG.

4.2 Field Blank (FB)

The field blank reported methylene chloride contamination at 3.0ug/L. This resulted in all detected methylene chloride results being qualified as non-detects at CRDL.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination. Affected samples were already qualified due to field blank contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

VOA: Recovery for one surrogate exceeded acceptable QC limits for sample TLN-3-2-4. Acetone, chloroform and benzene are the affected compounds and were qualified with the "J" validation flag to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony and lead results were qualified as estimate "UJ/J" due to low matrix spike recovery.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

SVOA: Recoveries for 4-nitrophenol and bis(2-chloroethyl)ether exceeded the required QC limits. There were no detected results so no qualification was necessary.

6.0 Serial Dilution (SD)

Vanadium and zinc results were qualified as estimated "J" due to SD recoveries that were outside QC limits.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There were no field duplicates presented.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
TLN-3-0.5	Methylene chloride	5.8U	4.2
TLN-3-2-4	Acetone, benzene, chloroform	J	5.1
	Methylene chloride	6.9U	4.2
ADS-7-0.5	Methylene chloride	5.2U	4.2
ADS-1-0-.5	Methylene chloride	7.6U	4.2
PCA-1-0-.5	Methylene chloride	39U	4.2
PCA-1-4-6	Methylene chloride	7.0U	4.2
PCA-2-0-.5	Methylene chloride	4.9U	4.2
SR-1-0-.5	Methylene chloride	5.8U	4.2
SR-2-0.5	Methylene chloride	6.7U	4.2

Metals

Sample Identification	Compound	Qualifier	Section Reference
TLN-3-0-.5, PCA-1-0-.5, PCA-1-4-6, PCA-2-0-.5	Antimony	UJ	5.2
	Lead, Vanadium, zinc	J	5.2/6.0
TLN-3-2-4, SR-1-0-.5	Antimony	UJ	5.2
	Lead, zinc	J	5.2/6.0
ADS-7-0-.5, ADS-1-0-.5, SR-2-0-.5	Antimony, lead, vanadium, zinc	J	5.2/6.0
FB01-011707	Antimony	UJ	5.2
	Lead	UJ	6.0

RECEIVED
JAN 11 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E95239
Sampling Dates: July 18, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 3, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
ADS-8-0-0.5	SOIL	E95239-1	X	X	X	X	X
ADS-8-4-6	SOIL	E95239-2	X	X	X	X	X
ADS-9-0-0.5	SOIL	E95239-3	X	X	X*	X	X
ADS-10-0-0.5	SOIL	E95239-4	X	X	X*	X	X
ADS-10-4-6	SOIL	E95239-5	X	X	X	X	X
ADS-11-0-0.5	SOIL	E95239-6	X	X	X*	X	X
ADS-12-0-0.5	SOIL	E95239-7	X	X	X	X	X
ADS-12-0.5-2	SOIL	E95239-8	X	X	X*	X	X
ADS-2-0-0.5	SOIL	E95239-9	X	X	X*	X	X
ADS-2-4-6	SOIL	E95239-10	X	X	X*	X	X
DUP071801	SOIL	E95239-11	X	X	X*	X	X
ADS-3-0-0.5	SOIL	E95239-12	X	X*	X*	X	X
ADS-4-0-0.5	SOIL	E95239-13	X	X*	X*	X	X
ADS-4-12-14	SOIL	E95239-14	X	X	X*	X	X
FB02-011807	WATER	E95239-15	X	X	X	X	X

*reanalyzed

R2-0004017

Introduction

No. of Samples/Matrix:	14 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E95239
Sampling Date:	July 18, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: The Field blank and method blanks reported methylene chloride contamination. This resulted in all detected methylene chloride results being qualified as non-detects at CRDL. The field blank also reported acetone contamination which resulted in some detected acetone results being qualified as non-detects at CRDL.

SVOA: Internal standard area count for perylene-d12 was below the required QC limits for samples ADS-3-0-0.5 and ADS-4-0-0.5. The corresponding target compounds for this internal standard were all qualified "UJ/J" to indicate that the results are estimated due to this anomaly.

Pesticide: Several samples reported surrogate recoveries above QC limits. All affected detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: All results are acceptable.

Metals: Lead and iron results were qualified as estimated "J" due to serial dilution recoveries that were outside QC limits. Antimony and beryllium results were qualified as estimated "UJ/J" due to low matrix spike recovery and all sodium results were rejected "R" due to matrix interference. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004018

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)
VOA: The field blank reported methylene chloride contamination at 1.6ug/L and acetone at 7.0ug/L. Affected methylene chloride sample results were already qualified due to method blank contamination. Affected acetone sample results were qualified as non-detects at CRDL.

4.3 Method Blank (MB)
VOA: Method blanks reported methylene chloride contamination. Affected samples were already qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: Antimony and beryllium results were qualified as estimated "UJ/J" due to low matrix spike recovery and all sodium results were rejected "R" due to matrix interference.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

R2-0004020

6.0 Serial Dilution (SD)

Iron and lead results were qualified as estimated "J" due to SD recoveries that were outside QC limits.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples ADS-3-0-0.5 and ADS-4-0.5. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable with the exception of sodium metal results which are not usable.

R2-0004021

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
ADS-9-0-0.5	Methylene chloride	9.3U	4.2
ADS-10-0-0.5	Acetone	44.2U	4.2
	Methylene chloride	5.9U	4.2
ADS-10-4-6	Acetone	60U	4.2
	Methylene chloride	12U	4.2
ADS-11-0-0.5	Acetone	44U	4.2
	Methylene chloride	6.2U	4.2
ADS-12-0-0.5	Acetone	28.6U	4.2
	Methylene chloride	8.2U	4.2
ADS-12-0.5-2	Methylene chloride	5.6U	4.2
ADS-2-0-0.5	Acetone	70U	4.2
	Methylene chloride	6.1U	4.2
ADS-2-4-6	Methylene chloride	4.9U	4.2
DUPE071801	Methylene chloride	6.6U	4.2
ADS-3-0-.0.5	Acetone	37.6U	4.2
	Methylene chloride	5.7U	4.2
ADS-4-0-0.5	Acetone	59.7U	4.2
	Methylene chloride	6.0U	4.2
ADS-4-12-14	Acetone	67.8U	4.2
	Methylene chloride	8.8U	4.2

SVOA

Sample Identification	Compound	Qualifier	Section Reference
ADS-3-0-.0.5	Benzo (g,h,i) perylene, Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1
ADS-4-0-0.5	Benzo (a) pyrene, benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	J	6.1
	Di-n-octyl phthalate	UJ	6.1

R2-0004022

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
ADS-10-0-0.5	Dieldrin, 4,4'-DDE, 4,4'-DDT	J	5.1
ADS-11-0-0.5	4,4'-DDE, 4,4'-DDT	J	5.1
ADS-4-0-0.5	Beta-BHC, gamma-BHC, gamma-chlordane, 4,4'-DDT	J	5.1
ADS-4-12-14	Aldrin, gamma-chlordane, 4,4'-DDT	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
ADS-8-0-0.5, ADS-10-0-0.5, ADS-11-0-0.5	Antimony, beryllium, iron, lead	J	5.2/6.0
	sodium	R	5.2
ADS-8-4-6, ADS-9-0-0.5, ADS10-4-6	Antimony, Lead, iron	J	5.2/6.0
	Beryllium	UJ	5.2
	Sodium	R	5.2
ADS-12-0-0.5, ADS-12-0.5-2	Antimony	UJ	5.2
	Iron, lead, beryllium	J	5.2/6.0
ADS-2-0-0.5, ADS-2-4-6, DUPE071801, ADS-3-0-0.5, ADS-4-0-0.5, ADS-4-12-14	Antimony, beryllium	UJ	5.2
	Iron, lead	J	6.0
	Sodium	R	5.2

R2-0004023

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E95302
Sampling Dates: July 18 and 19, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

October 24, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010/ 7471A/ 7470A
SPR-2B-0-0.5	Soil	E95302-1	X	X	X	X*	X
SPR-2B-10-12	Soil	E95302-2	X	X	X	X	X
SPR-4A-0-0.5	Soil	E95302-3	X	X	X	X	X
SPR-4A-8-10	Soil	E95302-4	X	X	X	X	X
SPR-2A-0-0.5	Soil	E95302-5	X	X	X	X*	X
SPR-2A-8-10	Soil	E95302-6	X	X	X	X	X
TLN-2-0-0.5	Soil	E95302-7	X	X	X	X	X
WWT-1-0-0.5	Soil	E95302-8	X	X*	X	X	X
ADS-6-0-0.5	Soil	E95302-9	X	X	X	X*	X
ADS-6-0.5-2	Soil	E95302-10	X	X	X	X	X
ADS-5-0-0.5	Soil	E95302-11	X	X*	X	X*	X
FB03-011907	Soil	E95302-12	X	X	X	X	X

*reanalyzed

R2-0004025

RECEIVED
NOV - 7 2001
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

CAD

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010/ 7471A/ 7470A
TLN-3-0-.5	Soil	E95157-1	X*	X	X	X	X
TLN-3-2-4	Soil	E95157-2	X*	X	X	X	X
ADS-7-0-.5	Soil	E95157-3	X	X	X	X	X
ADS-1-0-.5	Soil	E95157-4	X	X	X	X	X
PCA-1-0-.5	Soil	E95157-5	X	X	X	X	X
PCA-1-4-6	Soil	E95157-6	X	X	X	X	X
PCA-2-0-.5	Soil	E95157-7	X	X*	X*	X	X
SR-1-0-.5	Soil	E95157-9	X	X	X	X	X
SR-2-0-.5	Soil	E95157-10	X	X	X	X	X
FB01-011707	Soil	E95157-11	X	X	X	X	X

*reanalyzed

R2-0004026

Introduction

No. of Samples/Matrix:	11 Soil samples and 1 Field blank
Sample Delivery Group (SDG):	E95302
Sampling Date:	July 18 and 19, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: The method blank reported methylene chloride contamination. This resulted in all detected methylene chloride results being qualified as non-detects at CRDL.

SVOA: Low internal standard recovery was exhibited by samples WWT-1-0-0.5 and ADS-5-0-0.5. All affected compounds in these samples were qualified "UJ" to indicate the results are estimated due to this anomaly.

Pesticide: Surrogate recoveries for sample SPR-2B-10-12 was below required the required QC limits. This resulted in all sample results for this sample being qualified "UJ" to indicate the results are estimated due to this anomaly.

PCB: Surrogate recoveries were above the QC limits for samples; ADS-6-0-.5-2, ADS-6-0-0.5 and ADS-5-0-0.5. Samples ADS-6-0-.5-2 and ADS-6-0-0.5 were qualified estimated "J" for aroclor 1260. Sample ADS-5-0-0.5 was qualified estimated "J" for aroclor 1254 due to this anomaly.

Metals: All antimony results were qualified as estimated "UJ" due to deficiency in matrix spike recovery. Aluminum, copper iron and potassium detected results were qualified as estimated "J" due to exceedance in matrix spike recovery. Arsenic and beryllium results were qualified as estimated "UJ/J" due to serial dilution recoveries that were outside QC limits.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004027

Table of Contents

INTRODUCTION III

TECHNICAL HOLDING TIME 1

CALIBRATION 1

1.1 INITIAL CALIBRATION (ICAL) 1
1.2 CONTINUING CALIBRATION (CCAL) 1

CRDL STANDARD 1

BLANKS QUALITY CONTROL 1

1.3 TRIP BLANK (TB) 1
1.4 FIELD BLANK (FB) 1
1.5 METHOD BLANK (MB) 1

ACCURACY AND PRECISION DATA 1

1.6 SURROGATE RECOVERY 1
1.7 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
1.8 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

SERIAL DILUTION (SD) 2

1.9 INTERNAL STANDARDS (IS) 2

TARGET COMPOUND IDENTIFICATION 2

TENTATIVE IDENTIFICATION COMPOUNDS (TICS) 2

COMPOUND QUANTITATION 2

FIELD DUPLICATES (FD) 2

OVERALL ASSESSMENT OF DATA 2

DATA QUALIFICATION SUMMARY TABLE 3

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

Technical Holding Time
All is acceptable.

Calibration

1.1 Initial Calibration (ICAL)
The ICAL is acceptable.

1.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

CRDL Standard
All is acceptable.

Blanks Quality Control

1.3 Trip Blank (TB)
A trip blank was not included with this SDG.

1.4 Field Blank (FB)
The field blank reported no contamination.

1.5 Method Blank (MB)
VOA: One method blank reported methylene chloride contamination. Affected samples were qualified as non-detects at CRDL.

Accuracy and Precision Data

1.6 Surrogate Recovery
Pest: Recovery was below the QC limits for sample SPR-2B-10-12. All compounds in this sample were qualified "UJ" to indicate the results are estimated.

PCB: Recoveries were above the QC limits for samples; ADS-6-0-.5-2, ADS-6-0-0.5 and ADS-5-0-0.5. Samples ADS-6-0-.5-2 and ADS-6-0-0.5 were qualified estimated "J" for aroclor 1260. Sample ADS-5-0-0.5 was qualified estimated "J" for aroclor 1254 due to this anomaly.

1.7 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: Antimony results were qualified estimated "UJ/J" due to low recovery. Aluminum, Iron, copper and potassium detected results were all qualified as estimated "J" due to high recoveries.

1.8 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

Serial Dilution (SD)

Beryllium and arsenic were qualified as estimated "UJ/J" due to SD recoveries that were outside QC limits.

1.9 Internal Standards (IS)

SVOA: Two IS area counts were below the required QC limits. Samples WWT-1-0-0.5 and ADS-5-0-0.5 are the affected samples. All associated affected compounds in these two samples were qualified "UJ" to indicate the results are estimated due to this anomaly.

Target Compound Identification

All target compound identification is acceptable.

Tentative Identification Compounds (TICs)

TICs are acceptable.

Compound Quantitation

All compound quantitation is acceptable.

Field Duplicates (FD)

There were no field duplicates presented.

Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable.

Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
SPR-2B-0-0.5	Methylene chloride	12U	4.2
SPR-4A-0-0.5	Methylene chloride	5U	4.2
SPR-2A-0-0.5	Methylene chloride	9U	4.2
TLN-2-0-0.5	Methylene chloride	7.6U	4.2
WWT-1-0-0.5	Methylene chloride	13.1U	4.2
ADS-6-0-0.5	Methylene chloride	4.8U	4.2
ADS-6-0-0.5-2	Methylene chloride	5.6U	4.2
ADS-5-0-0.5	Methylene chloride	5.3U	4.2

SVOA

Sample Identification	Compound	Qualifier	Section Reference
WWT-1-0-0.5	Benzo (a) pyrene, benzo (b)	UJ	6.1
	fluorantherne, Benzo (g,h,i)perylene,		
	benzo (k) fluorantherne, butyl benzyl phthalate		
	3,3'-dichlorobenzidine, dibenzo (a,h) anthracene		
	di-n-octyl phthalate, bis (-ethyl hexyl)phthalate		
	Indeno (1,2,3-cd)pyrene		
ADS-5-0-0.5	Benzo (a) pyrene, benzo (b)	UJ	6.1
	fluorantherne, benzo (g,h,i)perylene,		
	benzo (k) fluorantherne, butyl benzyl phthalate		
	3,3'-dichlorobenzidine, dibenzo (a,h) anthracene		
	di-n-octyl phthalate, bis (-ethyl hexyl)phthalate		
	Indeno (1,2,3-cd)pyrene, chrysene, benzo(a)		
	Anthracene, pyrene		

Pest

Sample Identification	Compound	Qualifier	Section Reference
SPR-2B-10-12	All compounds	UJ	5.1

R2-0004031

PCB

Sample Identification	Compound	Qualifier	Section Reference
ADS-6-0-5-2, ADS 6-0-0.5	Aroclor 1260	J	5.1
ADS-5-0-0-5	Aroclor 1254	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
SPR-2B-0.0.5, SPR2B-10-12, SPR-4A-8-10, TLN-2-0-0.5, ADS-6-0-0-0.5, ADS-6-0.5-2	Antimony	UJ	5.2
	Aluminum, arsenic , beryllium, copper, iron , potassium	J	5.2/6.0
SPR-4A-0-0.5, SPR-2A-8-10	Antimony, beryllium	UJ	5.2/6.0
	Aluminum, arsenic, copper, iron	J	5.2/6.0
SPR-2A-0-0.5, WWT-1-0-0.5	Antimony, beryllium	UJ	5.2/6.0
	Aluminum, arsenic, copper, iron , potassium	J	5.2/6.0
ADS-5-0-0.5	Antimony,	UJ	5.2/6.0
	Aluminum, beryllium arsenic, copper, iron	J	5.2/6.0
FB-03-011907	Antimony, arsenic, beryllium	UJ	5.2/6.0

RECEIVED
JAN - 4 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

CAL

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97193
Sampling Dates: August 20, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 19, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
TLN –1 0-.5	SOIL	E97193-1	X	X	X	X	X
TLN –1 .5-2	SOIL	E97193-2	X	X	X	X	X
TLN-6 0-.5	SOIL	E97193-3	X	X	X	X	X
TLN-5 0-.5	SOIL	E97193-4	X	X	X	X	X
TLN-5 .5-2	SOIL	E97193-5	X	X	X	X*	X
TLN-4 0-.5 DUP	SOIL	E97193-6	X	X	X	X	X
TLN-4 0-.5	SOIL	E97193-7	X	X	X	X*	X
FB-01-010820	WATER	E97193-8	X	X	X	X	X

*reanalyzed, **dilution

R2-0004034

Introduction

No. of Samples/Matrix:	6 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E97193
Sampling Date:	August 20, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination at 3.5ug/L. All methylene chloride results were affected and were qualified as non-detects at CRDL.

SVOA: Results are acceptable.

Pesticide: Results are acceptable.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

Metals: Antimony results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Aluminum, copper, iron, manganese, potassium and sodium results were qualified as estimated "J" due to elevated matrix spike recoveries.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004035

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCALs are acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

There was no field blank associated with this SDG.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination at 3.5ug/L. All methylene chloride results were affected and were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Aluminum, copper, iron, manganese, potassium and sodium results were qualified as estimated "J" due to elevated matrix spike recoveries.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

R2-0004037

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was associated with this SDG. All RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable.

R2-0004038

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
TLN-1 0-.5	Methylene chloride	5.6U	4.3
TLN-1 .5-2	Methylene chloride	13.2U	4.3
TLN-5 0-0.5	Methylene chloride	8.2U	4.3
TLN-5 .5-2	Methylene chloride	12.2U	4.3
TLN-4 0-.5DUP	Methylene chloride	8.2U	4.3
TLN-4 0-.5	Methylene chloride	5.4U	4.3

PCB

Sample Identification	Compound	Qualifier	Section Reference
TLN-1 .5-2, TLN-4 0-.5	Aroclor 1254, aroclor 1260	J	5.1
TLN-6 0-.5	Aroclor 1260	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
TLN-1 0-.5, TLN-6 0-.5, TLN-5 0-.5, TLN-4 0-.5, TLN-4 0-.5DUP	Antimony,	UJ	5.2
	Aluminum, copper, iron, manganese, potassium, sodium	J	5.2/6.0
TLN-1 .5-2, TLN-5 .5-2	Antimony, aluminum, copper, iron, manganese, potassium, sodium	J	5.2/6.0

R2-0004039

RECEIVED
JAN 11 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97258
Sampling Dates: August 21, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 3, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
TLS 3 0-.5	SOIL	E97258-1	X	X	X	X*	X
TLS 10 0-.5	SOIL	E97258-2	X	X	X	X*	X
TLS 10 8-10	SOIL	E97258-3	X	X**	X**	X*	X
SPR 3 0-.5	SOIL	E97258-4	X	X	X	X*	X
SPR 3 4-6	SOIL	E97258-5	X	X	X*	X	X
TLS 9 0-.5	SOIL	E97258-6	X	X*	X*	X	X
LP 4 0-.5	SOIL	E97258-7	X	X	X*	X	X
LP 4 .5-2	SOIL	E97258-8	X	X*	X*	X	X
TLS 7 0-.5	SOIL	E97258-9	X	X	X*	X*	X
TLS 6 0-.5	SOIL	E97258-10	X	X	X*	X*	X

*reanalyzed, **dilution

R2-0004041

Introduction

No. of Samples/Matrix:	10 Soil samples
Sample Delivery Groups (SDG):	E97258
Sampling Date:	August 21, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Results are acceptable.

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples TLS-6-0-.5, LP-4 .5-2 and TLS-9 0-.5. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

Metals: Antimony and nickel results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Calcium and zinc results were qualified as estimated "J" due to SD recoveries that were outside QC limits. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004042

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The percent difference exceeded the 20% QC criteria for delta-BHC. All results in affected samples were qualified as estimated "UJ/J."

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

There was no field blank associated with this SDG.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony and nickel results were qualified as estimated "UJ/J" due to low matrix spike recoveries.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Calcium and zinc results were qualified as estimated "J" due to SD recoveries that were outside QC limits.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples TLS-6-0-.5, LP-4 .5-2 and TLS-9 0-.5. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There are no field duplicates associated with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable.

R2-0004045

12.0 Data Qualification Summary Table

LCP Superfund Site

SVOA

Sample Identification	Compound	Qualifier	Section Reference
TLS 9 0-.5	Benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, Benzo (g,h,i) perylene, benzo (k) fluoranthene, Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd) pyrene	UJ	6.1
LP-4 .5-2	Benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, Benzo (g,h,i) perylene, benzo (k) fluoranthene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd) pyrene	UJ	6.1
TLS-6 0-.5	Benzo (b) fluoranthene, Dibenzo (a,h) anthracene, di-n-octyl phthalate	J	6.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
All samples	Delta-BHC	J	2.1
TLS 10 8-10	4,4'-DDE	J	5.1
LP-4 .5-2	4,4'-DDT	J	5.1
TLS 7 0-.5	Beta BHC, endosulfan sulfate, heptachlor epoxide, endrin ketone	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
TLS 3 0-.5	Aroclor 1254, aroclor 1260	J	5.1
TLS 10 0-.5, SPR 3 0-.5, LP-4 .5-2	Aroclor 1260	J	5.1
TLS 7 0-.5, LP-4 .5-2, TLS-6 0-.5	Aroclor 1254	J	5.1

R2-0004046

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples except SPR 3 0-.5 and TLS-6 0-.5	Antimony,	UJ	5.2
	Calcium, nickel, zinc	J	5.2/6.0
SPR 3 0-.5 and TLS-6 0-.5	Antimony, calcium, nickel, zinc	J	5.2/6.0

R2-0004047

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97259
Sampling Dates: August 21, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 13, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
EC-1	SOIL	E97259-1	X	X	X**	X	X
EC-2	SOIL	E97259-2	X	X	X**	X	X
EC-3	SOIL	E97259-3	X	X	X**	X	X
EC-4	SOIL	E97259-4	X	X	X**	X	X
EC-5	SOIL	E97259-5	X	X	X**	X	X
EC-6	SOIL	E97259-6	X	X	X**	X	X
EC-7	SOIL	E97259-7	X	X	X**	X	X
EC-8	SOIL	E97259-8	X	X	X**	X	X
EC-9	SOIL	E97259-9	X	X	X**	X*	X
SC-1	SOIL	E97259-10	X	X	X**	X*	X
Blind Dup	SOIL	E97259-11	X	X	X**	X	X

*reanalyzed, **dilution

R2-0004049

Introduction

No. of Samples/Matrix:	11 Soil samples
Sample Delivery Groups (SDG):	E97259
Sampling Date:	August 21, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blank reported methylene chloride contamination at 5.9ug/L. All detected methylene chloride results were qualified as non-detects at CRDL.

SVOA: IS Perylene-d12 area counts were below the required QC limits for several samples. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: Results are acceptable.

PCB: Results are acceptable.

Metals: Antimony results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All aluminum, copper, iron and some sodium results were qualified as estimated "J" due to high spike recoveries. All magnesium results were rejected "R" due to elevated spike recoveries. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004050

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)
There was no field blank associated with this SDG.

4.3 Method Blank (MB)
VOA: Method blank reported methylene chloride contamination at 5.9ug/L. All detected methylene chloride results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
Recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: Antimony results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All aluminum, copper, iron and some sodium results were qualified as estimated "J" due to high spike recoveries. All magnesium results were rejected "R" due to elevated spike recoveries.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

R2-0004052

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for several samples. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There was a blind field duplicates associated with this SDG. All RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some samples were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable except those results flagged with the "R" qualifier.

R2-0004053

12.0 Data Qualification Summary Table

LCP Superfund Site

Sample Identification	Compound	Qualifier	Section Reference
EC-1	Methylene chloride	10.7U	4.3
EC-2	Methylene chloride	11.3U	4.3
EC-3	Methylene chloride	8.2U	4.3
EC-4	Methylene chloride	10.0U	4.3
EC-5	Methylene chloride	7.6U	4.3
EC-6	Methylene chloride	10U	4.3
EC-7	Methylene chloride	9.8U	4.3
EC-8	Methylene chloride	10.6U	4.3
EC-9	Methylene chloride	10.2U	4.3
SC-1	Methylene chloride	12.6U	4.3

SVOA

Sample Identification	Compound	Qualifier	Section Reference
EC-3	Benzo (a) pyrene, benzo (b) fluoranthene, indeno (1,2,3-cd) pyrene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate	UJ	6.1
EC-4	Benzo (a) pyrene, benzo (b) fluoranthene, bezno (g,h,i) prylene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate	UJ	6.1
EC-7	Benzo (a) pyrene, benzo (b) fluoranthene, benzo (g,h,i) prylene, indeno (1,2,3-cd) pyrene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate	UJ	6.1
EC-8	Benzo (a) pyrene, benzo (b) fluoranthene, benzo (g,h,i) perylene, indeno (1,2,3-cd) pyrene, benzo (k) fluoranthene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate	UJ	6.1
EC-9	Benzo (a) pyrene, benzo (b) fluoranthene, bezno (g,h,i) perylene, indeno (1,2,3-cd) pyrene, , di-n-octyl phthalate	J	6.1
E-10	Benzo (b) fluoranthene, dibenzo (a,h)anthracene, indeno, (1,2,3-cd) pyrene, , di-n-octyl phthalate	UJ	6.1
	Benzo (a) pyrene, benzo (k) fluoranthene	J	6.1

R2-0004054

Metals

Sample Identification	Compound	Qualifier	Section Reference
EC-1, EC-2, EC-3, EC-4, EC-5, EC-7, EC-8, EC-9,	Antimony,	UJ	5.2
	Aluminum, copper, Iron	J	5.2
	Magnesium	R	5.2
EC-6, SC-1	Antimony,	UJ	5.2
	Aluminum, copper, Iron	J	5.2
	Magnesium	R	5.2

R2-0004055

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97283
Sampling Dates: August 20, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
SW-1	WATER	E97283-1	X	X	X	X	X
SW-2	WATER	E97283-2	X	X	X	X	X
SW-3	WATER	E97283-3	X	X	X	X	X
SW-4	WATER	E97283-4	X	X	X	X	X
SW-5	WATER	E97283-5	X	X	X	X	X
SW-5EQBL	WATER	E97283-6	X	X	X	X	X
Trip Blank	WATER	E97283-7	X	-	-	-	-

R2-0004057

Introduction

No. of Samples/Matrix:	7 water samples
Sample Delivery Groups (SDG):	E97283
Sampling Date:	August 20, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Results are acceptable.

SVOA: Results are acceptable.

Pesticide: CCAL results for methoxychlor and 4,4'-DDT exceeded the required 15% QC limits. All sample results (except EQBL) for these compounds were qualified as estimated "UJ" due to this anomaly.

PCB: Results are acceptable.

Metals: Serial dilution result for sodium exceeded the required QC limits; all sodium results were qualified as estimated "J" due to this anomaly. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004058

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

CCAL results for methoxychlor and 4,4'-DDT exceeded the required 15% QC limits. All sample results (except EQBL) for these compounds were qualified as estimated "UJ" due to this anomaly.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

The field blank reported methylene chloride contamination but there were no detected methylene chloride results thus, no validation action was necessary.

4.3 Method Blank (MB)

Method blank reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Metals: Serial dilution result for sodium exceeded the required QC limits; all sodium results were qualified as estimated "J" due to this anomaly.

6.1 Internal Standards (IS)

All IS results are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There were no field duplicates associated with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
All samples except EQBL	Methoxychlor, 4,4-DDT	UJ	2.2

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples	Sodium	J	6.0

RECEIVED
JAN - 9 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97358
Sampling Dates: August 21 & 22, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

January 3, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
RR-1-0 0.5	SOIL	E97358-1	X	X*	X	X	X
RR-1 14-16	SOIL	E97358-2	X**	X*	X**	X**	X
230 B6 0-0.5	SOIL	E97358-3	X	X	X	X**	X
230 B6 1.5-2	SOIL	E97358-4	X	X	X	X	X
230 B7 0-0.5	SOIL	E97358-5	X	X	X	X**	X
230 B7 1.5-2	SOIL	E97358-6	X	X	X**	X	X
DUP-01-08 2201	SOIL	E97358-7	X	X	X**	X	X
230 B9 0-0.5	SOIL	E97358-8	X	X	X*	X	X
230 B8 1.5-2	SOIL	E97358-9	X	X	X**	X	X
230 B9 0-0.5	SOIL	E97358-10	X	X	X	X	X
230 B9 1.5-2	SOIL	E97358-11	X	X	X	X	X
TLS-5 0-0.5	SOIL	E97358-12	X	X	X	X**	X
FB-01-210801	WATER	E97358-13	X	X	X	X	X
FB-01-220801	WATER	E97358-14	X	X	X	X	X

*reanalyzed, **dilution

R2-0004064

Introduction

No. of Samples/Matrix:	12 Soil samples and 2 water samples
Sample Delivery Groups (SDG):	E97358
Sampling Date:	August 21 & 22, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Some methylene chloride results were qualified as non-detects at CRDL since their method blank reported methylene chloride contamination.

SVOA: Results are acceptable.

Pesticide: Results are acceptable.

PCB: Surrogate recoveries for sample 230 B6 0-0.5 were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly and all non-detected compounds were qualified "UJ" to indicate the results are estimated due to this anomaly.

Metals: Antimony and sodium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Aluminum results were qualified as estimated "J" due to exceedance in matrix spike recoveries. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004065

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

Field blanks reported no contamination.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination at 10ug/L. All detected methylene chloride results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for one sample was above the required QC limits. There were no detected compounds so no qualification was necessary.

PCB: Recoveries for sample 230 B6 0-0.5 were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly and all non-detected compounds were qualified "UJ" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony and sodium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Aluminum results were qualified as estimated "J" due to exceedance in matrix spike recoveries.

R2-0004067

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

SD is acceptable.

6.1 Internal Standards (IS)

IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A blind field duplicate was presented in the SDG. RPDs are calculated when both original and Duplicate report detects. The following RPDs were calculated;
VOA: Acetone-67% and benzene-75%.

SVOA: Benzo (a) anthracene-38%, benzo (a) pyrene- 32%, benzo (b) fluoranthene-14%, benzo (k) fluoranthene-30%, chrysene-13%, fluoranthene-54%, phenanthrene-6%, pyrene-48% and 1,2,3-trichlorobenzene-25%.

Pesticide: 4,4'-DDD-1.2%, 4,4'-DDE-18% and 4,4'-DDT-30%

PCB: No RPDs were calculated.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some due to calibration range exceedance (see Table 1.0). The data as presented are usable.

R2-0004068

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
RR-1 0-0.5,	Methylene chloride	9.4U	4.3
230 B6 0-0.5	Methylene chloride	10.6U	4.3
230 B6 1.5-2	Methylene chloride	10.9U	4.3
230 B7 0-0.5	Methylene chloride	15.8U	4.3
230 B7 1.5-2	Methylene chloride	12.0U	4.3
DUP-01-08 2201	Methylene chloride	13.8U	4.3
230 B8 1.5-2	Methylene chloride	13.6U	4.3
230 B9 0-0.5	Methylene chloride	12.6U	4.3
230 B9 1.5-2	Methylene chloride	12.0U	4.3
TLS-5 0-0.5	Methylene chloride	10.2U	4.3

PCB

Sample Identification	Compound	Qualifier	Section Reference
230 B6 0-0.5	Aroclor 1016, aroclor 1221, aroclor 1232, aroclor 1242 aroclor-1248 aroclor 1260	UJ	5.1
	Aroclor 1254	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples except 230 B6 0-0.5, 230 B6 1.5-2 and 230 B7 0-0.5	Antimony	UJ	5.2
	Aluminum, sodiium	J	5.2
230 B6 0-0.5, 230 B6 1.5-2 and 230 B7 0-0.5	Antimony, sodium	UJ	5.2
	Aluminum	J	5.2

R2-0004069

RECEIVED
JAN 11 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97359
Sampling Dates: August 22, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

January 3, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
231-B2-0-0.5	SOIL	E97359-1	X	X*	X	X**	X
231-B2-0.5-2	SOIL	E97359-2	X	X*	X	X**	X
231 B3 0-0.5	SOIL	E97359-3	X	X*	X	X**	X
SPR-4B-4-6	SOIL	E97359-5	X*	X*	X	X	X

*reanalyzed, **dilution

R2-0004071

Introduction

No. of Samples/Matrix:	4 Soil samples
Sample Delivery Groups (SDG):	E97359
Sampling Date:	August 22, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Some methylene chloride results were qualified as non-detects at CRDL since their method blank reported methylene chloride contamination.

SVOA: Results are acceptable.

Pesticide: Results are acceptable.

PCB: Surrogate recoveries for sample 230 B6 0-0.5 were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly and all non-detected compounds were qualified "UJ" to indicate the results are estimated due to this anomaly.

Metals: Antimony and sodium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Aluminum results were qualified as estimated "J" due to exceedance in matrix spike recoveries. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004072

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)
Field blanks were not reported with this SDG.

4.3 Method Blank (MB)
VOA: Method blanks reported methylene chloride contamination and this resulted in detected methylene chloride results beingqualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

PCB: Recoveries for sample several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
All results are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
SD is acceptable.

R2-0004074

6.1 Internal Standards (IS)

IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There are no field duplicates associated with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some due to calibration range exceedance (see Table 1.0). Sample SPR-4B-4-6 was reanalyzed due to internal standard area failure. The data as presented are usable.

R2-0004075

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
231-B2-0-0.5	Methylene chloride	12.9U	4.3
231 B2 0.5-2	Methylene chloride	11.1U	4.3
231 B3 0-0.5	Methylene chloride	9.5U	4.3

PCB

Sample Identification	Compound	Qualifier	Section Reference
231-B2-0-0.5, 231-B2-0.5-2, 231- B3-0-0.5	Aroclor 1254	J	5.1

R2-0004076

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB, Metals and TOC Analyses

SDG No. E97444
Sampling Dates: August 22, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 3, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals & TOC 6010B/ 7471A/ 7470A/ 9012/160.1
SED 1 (0.0-0.5FT)	SED	E97444-1	X	X	X	X	X
SED 1 (0.5-1.0FT)	SED	E97444-2	X	X*	X	X	X
SED 1 (1.0-1.5FT)	SED	E97444-3	X	X	X	X	X
SED 2 (0.0-0.5FT)	SED	E97444-4	X	X**	X	X	X
SED 2 (0.5-1.0FT)	SED	E97444-5	X	X	X	X	X
SED 2 (1.0-1.5FT)	SED	E97444-6	X	X**	X	X	X
SED 3 (0.0-0.5FT)	SED	E97444-7	X	X	X	X	X
SED 3 (0.5-1.0FT)	SED	E97444-8	X	X	X	X	X
SED 3 (1.0-1.5FT)	SED	E97444-9	X	X	X	X	X
SED 4 (0.0-0.5FT)	SED	E97444-10	X	X	X	X	X
SED 4 (0.5-1.0FT)	SED	E97444-11	X	X	X	X	X
SED 5 (0.0-0.5FT)	SED	E97444-12	X	X	X	X	X
SED 5 (0.5-1.0FT)	SED	E97444-13	X	X	X	X	X
SED 5 (1.0-1.5FT)	SED	E97444-14	X	X	X	X	X
SC- 2	~~SED~~ Soil	E97444-15	X	X	X	X	X
SC-3	~~SED~~ Soil	E97444-16	X	X	X	X	X
FIELD BLANK-1	WATER	E97444-17	X	X	X	X	X
FIELD BLANK-2	WATER	E97444-18	X	X	X	X	X
TRIP BLANK	WATER	E97444-19	X				

*reanalyzed, **dilution

R2-0004078

Introduction

No. of Samples/Matrix:	16 Sediment samples and 3 water samples
Sample Delivery Groups (SDG):	E97444
Sampling Date:	August 22, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB, Metals and TOC
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082, 6010B/ 7470A/7471/9012 and 160.1

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: The method blanks reported methylene chloride contamination. This resulted in some detected methylene chloride results being qualified as non-detects at CRDL.

SVOA: All compounds in some samples were qualified as estimated "J" since the reported solids were below the 50% minimum requirement.

Pesticide: All compounds in some samples were qualified as estimated "J" since their reported solids were below the 50% minimum requirement.

PCB: Recoveries for surrogate exceeded the QC limits in sample SC-2; this resulted in aroclor1260 being qualified as estimated "J." All compounds in some samples were qualified as estimated "J" since their reported solids were below the 50% minimum requirement.

Metals: Aluminum, barium, calcium, magnesium and zinc results were qualified as estimated "J" due to matrix spike recoveries that were outside QC limits. Antimony results were qualified as estimated "UJ/J" due to low matrix spike recovery. All compounds in some samples were qualified as estimated "J" since their reported solids were below the 50% minimum requirement.

Cyanide: All compounds in some samples were qualified as estimated "J" since their reported solids were below the 50% minimum requirement.

TOC: All compounds in some samples were qualified as estimated "J" since their reported

R2-0004079

solids were below the 50% minimum requirement.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004080

Table of Contents

1.0 TECHNICAL HOLDING TIME 1

2.0 CALIBRATION 1

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD 1

4.0 BLANKS QUALITY CONTROL 1

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA 1

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) 1

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION 2

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) 2

9.0 COMPOUND QUANTITATION 2

10.0 FIELD DUPLICATES (FD) 2

11.0 OVERALL ASSESSMENT OF DATA 2

12.0 DATA QUALIFICATION SUMMARY TABLE 3

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
Trip blank reported no contamination.

4.2 Field Blank (FB)
Field blank reported no contamination.

4.3 Method Blank (MB)
VOA: Method blanks reported methylene chloride contamination. Affected samples were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
PCB: Recoveries for surrogate exceeded the QC limits in sample SC-2; this resulted in arochlor1260 being qualified as estimated "J."

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: Aluminum and zinc detected results were qualified as estimated "J" due to exceedance in matrix spike recovery. Antimony, beryllium, calcium, iron and magnesium results were qualified as estimated "UJ/J" due to low matrix spike recovery.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
Results are acceptable.

R2-0004082

6.1 Internal Standards (IS)

Results are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

No field duplicates were presented.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable. Several sample results were qualified as estimated "J" since their percent solids were less the 50% minimum requirement.

R2-0004083

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
SED 1(0.0-0.5FT)	Methylene chloride	39U	4.2
SED 1(0.5-1.0FT)	Methylene chloride	26U	4.2
SED 1(1.0-1.5FT)	Methylene chloride	18.9U	4.2
SED 2 (0.5-1.0FT)	Methylene chloride	21U	4.2
SED 2 (1.0-1.5FT)	Methylene chloride	22.4U	4.2
SED 3 (0.0-0.5FT)	Methylene chloride	18.6U	4.2
SED 3 (0.5-1.0FT)	All compounds	J	11.0
SED 3 (1.0-1.5FT)	All compounds	J	11.0
SED 4 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.5-1.0FT)	All compounds	J	11.0
SED 5 (1.0-1.5FT)	All compounds	J	11.0

SVOA

Sample Identification	Compound	Qualifier	Section Reference
SED 3 (0.5-1.0FT)	All compounds	J	11.0
SED 3 (1.0-1.5FT)	All compounds	J	11.0
SED 4 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.5-1.0FT)	All compounds	J	11.0
SED 5 (1.0-1.5FT)	All compounds	J	11.0

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
SED 3 (0.5-1.0FT)	All compounds	J	11.0
SED 3 (1.0-1.5FT)	All compounds	J	11.0
SED 4 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.5-1.0FT)	All compounds	J	11.0
SED 5 (1.0-1.5FT)	All compounds	J	11.0

R2-0004084

PCB

Sample Identification	Compound	Qualifier	Section Reference
SED 3 (0.5-1.0FT)	All compounds	J	11.0
SED 3 (1.0-1.5FT)	All compounds	J	11.0
SED 4 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.5-1.0FT)	All compounds	J	11.0
SED 5 (1.0-1.5FT)	All compounds	J	11.0
SC- 2	Aroclor-1260	J	6.2

Metals

Sample Identification	Compound	Qualifier	Section Reference
SED 1(0.0-0.5FT), SED 2(0.0-0.5FT), SED 2 (0.5-1.0FT), SED 2 (1.0-1.5FT), SED 3 (0.0-0.5FT), SED 4 (0.5-1.0FT), SC-2, SC-3	Aluminum, barium calcium, iron, magnesium	J	5.2
	Antimony	UJ	5.2
SED 1(0.5-1.0FT),	Aluminum, antimony, barium calcium, iron, magnesium	J	5.2
SED 1(1.0-1.5FT)	Aluminum, antimony, barium calcium, iron, magnesium	J	5.2
SED 3 (0.5-1.0FT), SED 3 (1.0-1.5FT), SED 4 (0.0-0.5FT), SED 5 (0.0-0.5FT), SED 5 (0.5-1.0FT), SED 5 (1.0-1.5FT)	Aluminum, barium calcium, iron, magnesium	J	5.2
	Antimony	UJ	5.2
	All other analytes	J	11.0

Cyanide

Sample Identification	Compound	Qualifier	Section Reference
SED 3 (0.5-1.0FT)	Cyanide	J	11.0
SED 3 (1.0-1.5FT)	Cyanide	J	11.0
SED 4 (0.0-0.5FT)	Cyanide	J	11.0
SED 5 (0.0-0.5FT)	Cyanide	J	11.0
SED 5 (0.5-1.0FT)	Cyanide	J	11.0
SED 5 (1.0-1.5FT)	Cyanide	J	11.0

R2-0004085

TOC

Sample Identification	Compound	Qualifier	Section Reference
SED 3 (0.5-1.0FT)	TOC	J	11.0
SED 3 (1.0-1.5FT)	TOC	J	11.0
SED 4 (0.0-0.5FT)	TOC	J	11.0
SED 5 (0.0-0.5FT)	TOC	J	11.0
SED 5 (0.5-1.0FT)	TOC	J	11.0
SED 5 (1.0-1.5FT)	TOC	J	11.0

R2-0004086

RECEIVED
JAN 11 2002
BROWN AND CALDWELL

CAD
FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97445
Sampling Dates: August 23, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 6, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-01082B	WATER	E97445-1	X	X	X	X	X
SPR-4B-4-6	SOIL	E97445-2	X**	X	X	X	X
WWT-1-12-14	SOIL	E97445-3	X**	X	X**	X*	X
WWT-2-0-0.5	SOIL	E97445-4	X	X*	X**	X*	X
WWT-2-12-14	SOIL	E97445-5	X**	X*	X**	X*	X
WWT-3-0-0.5	SOIL	E97445-6	X	X*	X**	X*	X
WWT-3-12-14	SOIL	E97445-7	X**	X	X**	X*	X

*reanalyzed, **dilution

R2-0004088

Introduction

No. of Samples/Matrix:	6 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E97445
Sampling Date:	August 23, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Benzene and toluene exceeded the calibration range for sample WWT-2-12-14. Upon reanalysis at 250X dilution the holding time was exceeded. Thus, sample WWT-2-12-14 is being reported as a hybrid of the original and diluted analyses. Benzene and toluene results are qualified as estimated "J" due to this holding time anomaly.

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples WWT-2-0-0.5 and WWT-2-12-14. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: Several samples reported surrogate recoveries above QC limits. All affected detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Several samples reported surrogate recoveries above QC limits. All affected detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

Metals: Antimony and barium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All zinc results were qualified as estimated "J" due to matrix spike recovery exceedance. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004089

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 2
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

Benzene and toluene exceeded the calibration range for sample WWT-2-12-14. Upon reanalysis at 250X dilution, the holding time was exceeded. Thus, sample WWT-2-12-14 is being reported as a hybrid of the original and diluted analyses. Benzene and toluene results are qualified as estimated "J" due to this holding time anomaly.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The percent difference exceeded the 20% QC criteria for 4,4'-DDT and methoxychlor. All samples were affected thus, all results for these compounds in all samples were qualified as estimated "UJ/J."

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

There was no field blank associated with this SDG.

4.3 Method Blank (MB)

Method blanks reported methylene chloride contamination at 2.76ug/L. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

R2-0004091

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony and barium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All zinc results were qualified as estimated "J" due to matrix spike recovery exceedance.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Results are acceptable.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples WWT-2-0-0.5 and WWT-2-12-14. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

No field duplicates were included with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable.

R2-0004092

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
WWT-2-12-14	Benzene#, toluene#	J	1.0
WWT-3-0-0.5	Methylene chloride	9.7U	4.3

#250X dilution

SVOA

Sample Identification	Compound	Qualifier	Section Reference
WWT-2-0-0.5	Benzo (g,h,i) perylene, benzo (a) pyrene Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1
	Benzo (b) fluoranthene	J	6.1
WWT-2-12-14	Benzo (b) fluoranthene, Benzo (g,h,i) perylene,	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
All samples	Methoxychlor, 4,4'-DDT	UJ	2.2
WWT-2-0-0.5, WWT-2-12-14, WWT-3-0-0.5,WWT-3-12-14	Alpha chlordane	J	5.1
SPR-4B-4-6	4,4"-DDE, 4,4'-DDD	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
WWT-1-12-14	Aroclor-1260	J	5.1
WWT-2-0-0.5, WWT-2-12-14, WWT-3-0-0.5, WWT-3-12-14	Aroclor-1254	J	5.1

R2-0004093

Metals

Sample Identification	Compound	Qualifier	Section Reference
SPR-4B-4-6, WWT-2-0-0.5, WWT-3-0-0.5	Antimony	UJ	5.2
	Barium, zinc	J	5.2
WWT-1-12-14, WWT-2-12-14, WWT-3-12-14	Antimony	J	5.2
	Barium, zinc	J	5.2

R2-0004094

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97445
Sampling Dates: August 23, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 6, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-01082B	WATER	E95445-1	X	X	X	X	X
SPR-4B-4-6	SOIL	E95445-2	X**	X	X	X	X
WWT-1-12-14	SOIL	E95445-3	X**	X	X**	X*	X
WWT-2-0-0.5	SOIL	E95445-4	X	X*	X**	X*	X
WWT-2-12-14	SOIL	E95445-5	X**	X*	X**	X*	X
WWT-3-0-0.5	SOIL	E95445-6	X	X*	X**	X*	X
WWT-3-12-14	SOIL	E95445-7	X**	X	X**	X*	X

*reanalyzed, **dilution

R2-0004096

Introduction

No. of Samples/Matrix:	6 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E95445
Sampling Date:	August 23, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Benzene and toluene exceeded the calibration range for sample WWT-2-12-14. Upon reanalysis at 250X dilution the holding time was exceeded. Thus, sample WWT-2-12-14 is being reported as a hybrid of the original and diluted analyses. Benzene and toluene results are qualified as estimated "J" due to this holding time anomaly.

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples WWT-2-0-0.5 and WWT-2-12-14. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: Several samples reported surrogate recoveries above QC limits. All affected detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Several samples reported surrogate recoveries above QC limits. All affected detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

Metals: Antimony and barium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All zinc results were qualified as estimated "J" due to matrix spike recovery exceedance. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004097

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 2
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

Benzene and toluene exceeded the calibration range for sample WWT-2-12-14. Upon reanalysis at 250X dilution, the holding time was exceeded. Thus, sample WWT-2-12-14 is being reported as a hybrid of the original and diluted analyses. Benzene and toluene results are qualified as estimated "J" due to this holding time anomaly.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The percent difference exceeded the 20% QC criteria for 4,4'-DDT and methoxychlor. All samples were affected thus, all results for these compounds in all samples were qualified as estimated "UJ/J."

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

There was no field blank associated with this SDG.

4.3 Method Blank (MB)

Method blanks reported methylene chloride contamination at 2.76ug/L. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

R2-0004099

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony and barium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All zinc results were qualified as estimated "J" due to matrix spike recovery exceedance.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Results are acceptable.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples WWT-2-0-0.5 and WWT-2-12-14. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

No field duplicates were included with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable.

R2-0004100

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
WWT-2-12-14	Benzene#, toluene#	J	1.0
WWT-3-0-0.5	Methylene chloride	9.7U	4.3

#250X dilution

SVOA

Sample Identification	Compound	Qualifier	Section Reference
WWT-2-0-0.5	Benzo (g,h,i) perylene, benzo (a) pyrene Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1
	Benzo (b) fluoranthene	J	6.1
WWT-2-12-14	Benzo (b) fluoranthene, Benzo (g,h,i) perylene,	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
All samples	Methoxychlor, 4,4'-DDT	UJ	2.2
WWT-2-0-0.5, WWT-2-12-14, WWT-3-0-0.5,WWT-3-12-14	Alpha chlordane	J	5.1
SPR-4B-4-6	4,4"-DDE, 4,4'-DDD	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
WWT-1-12-14	Aroclor-1260	J	5.1
WWT-2-0-0.5, WWT-2-12-14, WWT-3-0-0.5, WWT-3-12-14	Aroclor-1254	J	5.1

R2-0004101

Metals

Sample Identification	Compound	Qualifier	Section Reference
SPR-4B-4-6, WWT-2-0-0.5, WWT-3-0-0.5	Antimony	UJ	5.2
	Barium, zinc	J	5.2
WWT-1-12-14, WWT-2-12-14, WWT-3-12-14	Antimony	J	5.2
	Barium, zinc	J	5.2

R2-0004102

RECEIVED
MAR 1 - 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Dioxin Analyses

SDG Nos. E97554X, E97941X, E98917X, EN220X
Sampling Dates: August 24, 31, September 17 & October 5, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 20, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	Dioxin 1613A
E97554X			
FB-01-010824	WATER	E97554-3X	X
LP-8-0-0.5	SOIL	E97554-9X	X
DUP-01-010824	SOIL	E97554-10X	X
E97941X			
FB-01-10827	WATER	E97941-2X	X
CF-1-0-0.5	SOIL	E97941-6X	X
E97685X			
FB-01-010917	WATER	E98917-2X	X
231-B12-0-0.5	SOIL	E98917-20X	X
231-B10-0-0.5	SOIL	E98917-21X	X
N220X			
231-B1-0-0.5	SOIL	N220-1X	X
FB-01-051001	WATER	N220-2X	X

R2-0004104

Introduction

No. of Samples/Matrix:	6 Soil samples and 4 water samples
Sample Delivery Groups (SDG):	E97554X, E97941X, E98917X & N220
Sampling Date:	August 24, 31,September 18 & October 5, 2001
Analyses:	Dioxin
Analytical Method:	EPA Method 1613A

Summary of Data Validation:

The adherence of laboratory analytical performance to the above method was evaluated during the data validation process. The USEPA Region II Data Validation SOP No. 25 for EPA Method 1613 was used as the guideline for data qualifications.

E97554X: Results are acceptable.

E97914X: Results are acceptable.

SDG E98917X: Results are acceptable.

SDG N220: Results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 10.0 and a detailed description in the report.

R2-0004105

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CALIBRATION VERIFICATION 1

3.0 BLANKS QUALITY CONTROL **1**

3.1 FIELD BLANK (FB) 1
3.2 METHOD BLANK (MB) 1

4.0 ACCURACY AND PRECISION DATA **1**

4.1 PRECISION RECOVERY STANDARD 1
4.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
4.3 BLANK SPIKES 1

5.0 INTERNAL STANDARD (IS) **1**

6.0 TARGET COMPOUND IDENTIFICATION **1**

7.0 COMPOUND QUANTITATION **1**

8.0 FIELD DUPLICATES (FD) **1**

9.0 OVERALL ASSESSMENT OF DATA **2**

10.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Calibration Verification
All is acceptable.

3.0 Blanks Quality Control

3.1 Field Blank (FB)
Field blank results are acceptable.

3.2 Method Blank (MB)
Method blank results are acceptable.

4.0 Accuracy and Precision Data

4.1 Precision Recovery Standard
Recoveries are acceptable.

4.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
None was performed.

4.3 Blank Spikes
All is acceptable.

5.0 Internal Standard (IS)
Results are acceptable.

6.0 Target Compound Identification
All target compound identification is acceptable.

7.0 Compound Quantitation
All is acceptable.

8.0 Field Duplicates (FD)
A Field duplicates was submitted for E97554X. All RPDs are acceptable.

9.0 Overall Assessment of Data

The data as presented are usable.

R2-0004108

10.0 Data Qualification Summary Table

LCP Superfund Site

No data were qualified.

R2-0004109

RECEIVED
FEB - 1 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

UAD

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97631
Sampling Dates: August 27, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

January 25, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
LP-3-0-0.5	SOIL	E97631-1	X	X	X	X**	X
LP-1-0-0.5	SOIL	E97631-2	X	X	X	X**	X
LP-5-0-0.5	SOIL	E97631-3	X	X	X	X**	X
LP-11-0-0.5	SOIL	E97631-4	X	X	X	X**	X
FB-01-010827	SOIL	E97631-5	X	X	X	X	X
LP-10-0-0.5	SOIL	E97631-6	X	X	X	X**	X
LP-10-0.5-2	SOIL	E97631-7	X	X**	X	X**	X
LP-16-0-0.5	SOIL	E97631-8	X	X	X	X**	X
LP-16-0.5-2	SOIL	E97631-9	X	X	X*	X**	X
LP-12-0-0.5	SOIL	E97631-10	X	X	X	X**	X
LP-12-4-6	SOIL	E97631-11	X	X	X	X**	X
LP-6-0-0.5	SOIL	E97631-12	X	X	X	X**	X

*reanalyzed, **dilution

R2-0004111

Introduction

No. of Samples/Matrix:	12 Soil samples
Sample Delivery Groups (SDG):	E97631
Sampling Date:	August 27, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Some methylene chloride results were qualified as non-detects at CRDL since their method blank reported methylene chloride contamination.

SVOA: Results are acceptable.

Pesticide: 4,4-DDT in samples LP-5-0-0.5 and LP-11-0-0.5 was qualified "J" to indicate the results are estimated due to elevated surrogate recoveries.

PCB: Aroclor-1254 in sample LP-10-0-0.5 was qualified "J" to indicate the result is estimated due to elevated surrogate recoveries.

Metals: Antimony results were qualified as estimated "UJ" due to low matrix spike recoveries. Zinc results were rejected "R" due to matrix interference. Some potassium results were qualified as estimated "J" due to serial dilution results being out of control. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004112

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)
Field blank reported no contamination.

4.3 Method Blank (MB)
VOA: Method blanks reported methylene chloride contamination and this resulted in detected methylene chloride results being qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for sample several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for sample several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: All antimony results were qualified as estimated "UJ" due to low matrix spike recovery and all zinc results were rejected "R" due to matrix interference.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Some potassium results were qualified as estimated "J" due to SD recoveries that were outside QC limits.

6.1 Internal Standards (IS)

IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There are no field duplicates associated with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of zinc metal results which are not usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
LP-3-0-0.5	Methylene chloride	18.3U	4.2
LP-1-0-0.5	Methylene chloride	7.8U	4.2
LP-5-0-0.5	Methylene chloride	6.2U	4.2
LP-11-0-0.5	Methylene chloride	12.3U	4.2
LP-10-0-0.5	Methylene chloride	8.3U	4.2
LP-10-0.5-2	Methylene chloride	5.1U	4.2
LP-16-0-0.5	Methylene chloride	7.3U	4.2
LP-16-0.5-2	Methylene chloride	14.3U	4.2
LP-12-0-0.5	Methylene chloride	8.3U	4.2
LP-12-4-6	Methylene chloride	10.8U	4.2
LP-6-0-0.5	Methylene chloride	9.9U	4.2

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
LP-5-0-0.5	4,4'-DDT	J	5.1
LP-11-0-0.5	4,4'-DDT	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
LP-10-0-0.5	Aroclor-1254	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples	Antimony	UJ	5.2
	Zinc	R	5.2
LP-5-0-0.5, LP-11-0-0.5,LP-10-0-0.5, LP-10-0.5-2, LP-16-0-0.5, LP-6-0-0.5	Potassium	J	6.0

FILE COPY
Job #: 21405 LCP
Folder: Gen Data

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97685
Sampling Dates: August 27 & 28, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

January 29, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-01010828	WATER	E97685-1	X	X	X	X	X
LP-6-4-6	SOIL	E97685-2	X	X*	X**	X	X
LP-2-0-0.5	SOIL	E97685-3	X	X**	X**	X	X
LP-2-0.5-2	SOIL	E97685-4	X	X**	X**	X	X
CF-2-0-0.5	SOIL	E97685-5	X	X	X**	X	X
CF-3-0-0.5	SOIL	E97685-6	X	X	X**	X	X
CF-3-0.5-2	SOIL	E97685-7	X	X	X**	X	X
CF-4-0-0.5	SOIL	E97685-8	X	X	X**	X	X
CF-7-0-0.5	SOIL	E97685-9	X	X	X**	X	X
CF-7-4-6	SOIL	E97685-10	X	X**	X**	X	X
DUP-1-010828	SOIL	E97685-11	X	X	X**	X	X
CF-6-0-0.5	SOIL	E97685-12	X	X	X**	X	X
CF-5-0-0.5	SOIL	E97685-13	X	X	X**	X	X
CF-5-4-6	SOIL	E97685-14	X	X	X**	X	X
CF-8-0-0.5	SOIL	E97685-15	X	X	X**	X	X

*reanalyzed, **dilution

R2-0004118

Introduction

No. of Samples/Matrix:	14 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E97685
Sampling Date:	August 27 & 28, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL. VOA TIC for naphthalene was rejected "R" in sample LP-2-0.5-2 since it is a SVOA target compound and thus cannot be reported as a VOA TIC.

SVOA: SVOA: IS Perylene-d12 area counts were below the required QC limits for samples LP-6-4-6, LP-2-0-0.5 and CF-7-4-6. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: The percent difference exceeded the 20% QC criteria for 4,4'-DDT, endosulfan II and methoxychlor. All results for these compounds in affected samples were qualified as estimated "UJ/J." Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

Metals: Antimony, aluminum, barium and iron results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All detected potassium results were qualified as estimated "J" due to serial dilution exceedance. All cyanide results are acceptable.

R2-0004119

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004120

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

Pesticide: The percent difference exceeded the 20% QC criteria for 4,4'-DDT, endosulfan II and methoxychlor. All results for these compounds in affected samples were qualified as estimated "UJ/J."

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

There was no trip blank present in this SDG.

4.2 Field Blank (FB)

Field blank reported no contamination

4.3 Method Blank (MB)

Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony, aluminum, barium and iron results were qualified as estimated "UJ/J" due to matrix spike recoveries that were outside QC limits.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Detected potassium results were qualified as estimated "J" due to serial dilution exceedance.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples LP-6-4-6, LP-2-0-0.5 and CF-7-4-6. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA TICs for naphthalene was rejected "R" in sample LP-2-0.5-2 since it is a SVOA target compound and thus cannot be reported as a VOA TIC.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A blind field duplicate was included with this SDG. All RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of the one naphthalene TIC result qualified with the "R" qualifier.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
LP-6-4-6	Methylene chloride	9.8U	4.3
LP-2-0-0.5	Methylene chloride	8.1U	4.3
LP-2-0.5-2	Methylene chloride	10.4U	4.3
	Naphthalene	R	8.0
CF-2-0-0.5	Methylene chloride	6.5U	4.3
CF-3-0-0.5	Methylene chloride	10.1U	4.3
CF-3-0.5-2	Methylene chloride	12.3U	4.3
CF-4-0-0.5	Methylene chloride	6.2U	4.3
CF-7-0-0.5	Methylene chloride	6.6U	4.3
CF-7-4-6	Methylene chloride	6.0U	4.3
DUP-1-010828	Methylene chloride	5.6U	4.3
CF-6-0-0.5	Methylene chloride	5.2U	4.3
CF-5-0-0.5	Methylene chloride	6.2U	4.3
CF-5-4-6	Methylene chloride	9.1U	4.3
CF-8-0-0.5	Methylene chloride	5.5U	4.3

svoa

Sample Identification	Compound	Qualifier	Section Reference
LP-6-4-6, LP-2-0-0.5	Benzo (a) anthracene, benzo (b) fluoranthene, benzo (k) fluoranthene, benzo (g,h,i) perylene, benzo (a) pyrene Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1
CF-7-4-6	Benzo (a) anthracene, benzo (b) fluoranthene, benzo (k) fluoranthene, benzo (g,h,i) perylene, benzo (a) pyrene, indeno (1,2,3-cd)pyrene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate	UJ	6.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
CF-3-0.5-2	Methoxychlor, 4,4'-DDT, endosulfan II	UJ	2.2
CF-4-0-0.5, CF-7-0-0.5, CF-7-4-6	Endosulfan II, methoxychlor	UJ	2.2
	4,4'-DDT	J	2.2
LP-6-4-6, LP-2-0-0.5, CF-2-0-0.5, CF-3-0-0.5	4,4'-DDT	J	2.2
LP-2-0.5-2	4,4'-DDT	UJ	2.2
CF-4-0-0.5, CF-7-0-0.5	4,4'-DDE	J	5.1
CF-7-4-6	Alpha chlordane, gamma chlordane	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
LP-2-0-0.5, LP-0.5-2, CF-4-0-0.5, CF-7-4-6, CF-8-0-0.5	Aroclor-1254	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
LP-2-0.5-2 CF-2-0-0.5 CF-3-0-0.5 CF-3-0.5-2 CF-4-0-0.5 DUP-1-010828 CF-6-0-0.5 CF-5-0-0.5 CF-5-4-6 CF-8-0-0.5	Antimony	UJ	5.2
	Barium, aluminum, copper, potasssium	J	5.2/6.0
CF-7-0-0.5, CF-7-4-6	Antimony, aluminum, barium, iron, potassium	J	5.2/6.0
LP-6-4-6, LP-2-0-0.5	Antimony	UJ	5.2
	Barium, aluminum, iron	J	5.2

RECEIVED
FEB 28 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

UHD

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Dioxin Analyses

26608 26606 26801 26802 26801 26644 26642 27018 27019

SDG Nos. E97259X, E97444X, E97631X, E97685X & E99129 23423 23424

Sampling Dates: August 21, 22, 27, 28 & September 20, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 20, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	Dioxin 1613A
E97259X			
EC-3	SOIL	E97259-3X	X
EC-7	SOIL	E97259-7X	X
E97631X			
LP-1-0-0.5	SOIL	E97631-2X	X
FB-01-10827	WATER	E99573-5X	X
LP-10-0-0.5	SOIL	E99573-6X	X
LP-16-0-0.5	SOIL	E99573-8X	X
LP-6-0-0.5	SOIL	E99573-12X	X
E97685X			
FB-01-010828	WATER	E99573-1X	X
CF-5-0-0.5	SOIL	E99573-3X	X
E97444X			
SC-3	SOIL	E97444-16X	X
FIELD BLANK-1	WATER	E97444-17X	X
FIELD BLANK-2	WATER	E97444-18X	X
E99129X			
FB-01-010920	WATER	E99129-1X	X
BSL-1-0-1	SOIL	E99129-2X	X

*reanalyzed, **dilution

R2-0004127

Introduction

No. of Samples/Matrix:	9 Soil samples and 5 water samples
Sample Delivery Groups (SDG):	E97259X, E97444X, E97631X, E97685X & E99129X
Sampling Date:	September 20, 21, 27, 28 & September 20, 2001
Analyses:	Dioxin
Analytical Method:	EPA Method 1613A

Summary of Data Validation:

The adherence of laboratory analytical performance to the above method was evaluated during the data validation process. The USEPA Region II Data Validation SOP No. 25 for EPA Method 1613 was used as the guideline for data qualifications.

E97444X: The ongoing precision standard (OPR) recovery was outside QC limits for some compounds. Results for those compounds were qualified as estimated "J" due to this anomaly.

E97631X: 2,3,7,8-TCDF and OCDD in samples LP-16-0-0.5 and LP-10-0-0.5 were rejected since the compound exceeded the calibration range.

SDG E97685X: Sample temperature were 12.1°C which, is above the required 4 °C. Based on technical information and professional judgement all sample results were qualified as estimated "J" since the integrity of the samples may have been compromised.

SDG E97631: Sample temperature were 24.2°C which, is above the required 4 °C. Based on technical information and professional judgement all sample results were qualified as estimated "J" since the integrity of the samples may have been compromised

A data validation summary table of all qualified compounds is presented in Section 10.0 and a detailed description in the report.

R2-0004128

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CALIBRATION VERIFICATION 1

3.0 BLANKS QUALITY CONTROL **1**

3.1 FIELD BLANK (FB) 1
3.2 METHOD BLANK (MB) 1

4.0 ACCURACY AND PRECISION DATA **1**

4.1 PRECISION RECOVERY STANDARD 1
4.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
4.3 BLANK SPIKES 1

5.0 INTERNAL STANDARD (IS) **1**

6.0 TARGET COMPOUND IDENTIFICATION **1**

7.0 COMPOUND QUANTITATION **1**

8.0 FIELD DUPLICATES (FD) **2**

9.0 OVERALL ASSESSMENT OF DATA **2**

10.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Calibration Verification
All is acceptable.

3.0 Blanks Quality Control

3.1 Field Blank (FB)
Field blank results are acceptable.

3.2 Method Blank (MB)
Method blank results are acceptable.

4.0 Accuracy and Precision Data

4.1 Precision Recovery Standard
E97444X: The ongoing precision standard (OPR) recovery was outside QC limits for some compounds. Results for those compounds were qualified as estimated "J" due to this anomaly.

4.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
None was performed.

4.3 Blank Spikes
All is acceptable.

5.0 Internal Standard (IS)
Results are acceptable.

6.0 Target Compound Identification
All target compound identification is acceptable.

7.0 Compound Quantitation
E97631X: 2,3,7,8-TCDF and OCDD in samples LP-16-0-0.5 and LP-10-0-0.5 respectively were rejected since the compound exceeded the calibration range.

8.0 Field Duplicates (FD)

Field duplicates were not submitted.

9.0 Overall Assessment of Data

The data as presented are usable with the exception of the results qualified with the "R" qualifier.

SDG E97685: Sample temperature were 12.1°C which, is above the required 4 °C. Based on technical information and professional judgement all sample results were qualified as estimated "J" since the integrity of the samples may have been compromised.

SDG E97631: Sample temperature were 24.2°C which, is above the required 4 °C. Based on technical information and professional judgement all sample results were qualified as estimated "J" since the integrity of the samples may have been compromised.

10.0 Data Qualification Summary Table

LCP Superfund Site

E97444X

Sample Identification	Compound	Qualifier	Section Reference
SC-3	1, 2, 3, 4, 7, 8-HxCDF, 1, 2, 3, 7, 8, 9-HxcCDF, 1, 2, 3, 4, 6, 7, 8-HpCDF, 1,2,3,4,7,8,9-HpCDF	J	4.1

E97631X

Sample Identification	Compound	Qualifier	Section Reference
LP-1-0-0.5	All compounds	J	9.0
FB-01-010827	All copoounds	J	9.0
LP-10-0-0.5	OCDD	R	7.0
	All other compounds	J	9.0
LP-16-0-0.5	2,3,7,8-TCDF	R	7.0
	All copoounds	J	9.0
LP-6-0-0.5	All copoounds	J	9.0

E97685X

Sample Identification	Compound	Qualifier	Section Reference
FB0-01-010828	All compounds	J	9.0
CF-5-0-0.5	All compounds	J	9.0

R2-0004132

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E99805
Sampling Dates: October 1, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 11, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
240-1-8-10	SOIL	E99805-1	X	X	X**	X	X
FB-01	WATER	E99805-2	X	X	X	X	X
5K-B1-0-0.5	SOIL	E99805-3	X	X	X**	X	X
5K-B4-0-0.5	SOIL	E99805-4	X	X*	X**	X**	X
5K-B4-4-6	SOIL	E99805-5	X	X*	X**	X	X

*reanalyzed, **dilution

R2-0004134

Introduction

No. of Samples/Matrix:	4 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E99805
Sampling Date:	October 1, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL. Field blank reported acetone contamination. All affected detected acetone results were qualified as non-detects at CRDL. Reported 1, 3-dichlorobenzene, 1, 4-dichlorobenzene, 1, 2-dichlorobenzene, 1, 2, 4-trichlorobenzene and naphthalene in sample 5K-B4-4-6 and naphthalene in sample 5K-B1-0-0.5 were rejected "R" since they are SVOA target compounds and therefore cannot be reported as VOA TICs.

SVOA: IS Perylene-d12 area counts were below the required QC limits for 5K-B4-0-0.5 Corresponding target compounds for this internal standard in this sample was qualified "UJ" to indicate the results are estimated due to this anomaly.

Pesticide: All results are acceptable.

PCB: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

Metals and Cyanide: All results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004135

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

No trip blank was reported.

4.2 Field Blank (FB)

VOA: Field blank reported acetone contamination. All affected detected acetone results were qualified as non-detects at CRDL.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

PCB: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

All is acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for 5K-B4-0-0.5 Corresponding target compounds for this internal standard in this sample was qualified "UJ" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: Reported 1, 3-dichlorobenzene, 1,4-dichlorobenzene, 1, 2-dichlorobenzene, 1, 2, 4-trichlorobenzene and naphthalene in sample 5K-B4-4-6 and naphthalene in sample 5K-B1-0-0.5 were rejected "R" since they are SVOA target compounds and therefore cannot be reported as VOA TICs.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not reported with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of the TICs with the "R" qualifiers.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
240-1-8-10	Methylene chloride	6.0U	4.3
5K-B1-0-0.5	Methylene chloride	5.4U	4.3
	Naphthalene	R	8.0
5K-B4-0-0.5	Methylene chloride	6.5U	4.3
	Acetone	399U	4.2
5K-B4-4-6	1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, naphthalene	R	8.0

SVOA

Sample Identification	Compound	Qualifier	Section Reference
5K-B4-0-0.5	Benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (g,h,i) perylene, benzo (k) fluoranthene, dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd) pyrene	UJ	6.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
5K-B1-0-0.5	Aroclor-1254	J	5.1
5K-B4-0-0.5	Aroclor-1254	J	5.1

R2-0004139

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E99913
Sampling Dates: October 2, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 11, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
230-B1-0.5	SOIL	E99913-1	X**	X	X**	X	X
230-B1-4-6	SOIL	E99913-2	X	X*	X**	X	X
HF-B3-0-.5	SOIL	E99913-3	X**	X*	X**	X	X
HF-B3-8-10	SOIL	E99913-4	X**	X	X**	X*	X
FB-01-021001	WATER	E99913-5	X	X	X	X	X
BT-B5-0-.5	SOIL	E99913-6	X	X*	X**	X*	X
DUP-01-021001	SOIL	E99913-7	X	X*	X**	X*	X

*reanalyzed, **dilution

R2-0004141

Introduction

No. of Samples/Matrix:	6 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E99913
Sampling Date:	October 2, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL. Field blank reported acetone contamination. All affected detected acetone results were qualified as non-detects at CRDL.

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples BT-B5-0-.5. Corresponding target compounds for this internal standard in this sample was qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

PCB: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

Metals: Antimony results were qualified as estimated "UJ" due to low matrix spike recoveries. Aluminum, copper, lead and potassium results were qualified as estimated "J" due to matrix spike recovery exceedance. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004142

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

Trip blank reported no contamination.

4.2 Field Blank (FB)

VOA: Field blank reported acetone contamination. All affected detected acetone results were qualified as non-detects at CRDL.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

PCB: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony results were qualified as estimated "UJ" due to low matrix spike recoveries. Aluminum, copper, lead and potassium results were qualified as estimated "J" due to matrix spike recovery exceedance.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

IS Perylene-d12 area counts were below the required QC limits for several samples. However, corresponding target compounds for this internal standard in sample BT-B5-0-.5 only was qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: Reported 1,2-dichlorobenzene was rejected "R" in sample 230-B1-4-6 since it is a SVOA target compound and therefore cannot be reported as a VOA TIC.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was reported. All RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of the TIC with the "R" qualifier.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
230-B1-0.5	Methylene chloride	5.4U	4.3
	Acetone	2570U*	4.2
230-B1-4-6	1,2-dichlorobenzene	R	8.0
HF-B3-0-.5	Methylene chloride	6.1U	4.3
	Acetone	1470U*	4.2
HF-B3-8-10	Methylene chloride	6.8U	4.3
BT-B5-0-.5	Methylene chloride	5.4U	4.3
	Acetone	122U	4.2
DUP-01-021001	Methylene chloride	5.4U	4.3
	Acetone	95.9U	4.2

*62X dilution

SVOA

Sample Identification	Compound	Qualifier	Section Reference
BT-B5-0-.5	Benzo (b) fluoranthene	J	6.1
	Benzo (g,h,i) perylene, dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd) pyrene	UJ	6.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
230-B1-0.5	4,4'-DDD, 4,4'-DDE, beta BHC	J	5.1
BT-B5-0-.5	4,4'-DDE, 4,4'-DDD	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
HF-B3-8-10	Aroclor-1254	J	5.1
BT-B5-0-.5	Aroclor-1254	J	5.1
DUP-01-021001	Aroclor-1254	J	5.1

R2-0004146

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples except FB-01-021001	Antimony	UJ	5.2
	Aluminum, copper, lead and potassium	J	5.2

R2-0004147

RECEIVED
FEB 25 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

CAD

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E99979
Sampling Dates: October 03, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

Februrary 17, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-031001	WATER	E99979-1	X*	X	X	X	X
DC-B12-0-0.5	SOIL	E99979-2	X	X*	X**	X**	X
DC-B12-2-4	WATER	E99979-3	X*	X	X**	X	X
DSP-1-0-0.5	SOIL	E99979-4	X	X	X**	X**	X

*reanalyzed, **dilution

R2-0004149

Introduction

No. of Samples/Matrix:	3 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E99979
Sampling Date:	October 03, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL. Naphthalene was rejected "R" in sample DC-B12-0-0.5 since it is a SVOA target compound and thus cannot be reported as VOA TIC

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals: Metals: Antimony, copper, lead and potassium results were qualified as estimated "UJ/J" due to matrix spike recoveries that were outside QC limits. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004150

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

There was no trip blank present in this SDG.

4.2 Field Blank (FB)

Field blank reported no contamination.

4.3 Method Blank (MB)

Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Surrogate recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony, copper, lead and potassium results were qualified as estimated "UJ/J" due to matrix spike recoveries that were outside QC limits.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

R2-0004152

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: Naphthalene was rejected "R" in sample DC-B12-0-0.5 since it is a SVOA target compound and thus cannot be reported as VOA TIC.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of the one naphthalene TIC result qualified with the "R" qualifier.

R2-0004153

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
DC-B12-0-0.5	Methylene chloride	9.8U	4.3
	Naphthalene	R	11.0
DC-B12-2-4	Methylene chloride	14U	4.3
231-B4-6-8	Naphthalene	R	8.0
DSP-1-0-0.5	Methylene chloride	7.2U	4.3

Metals

Sample Identification	Compound	Qualifier	Section Reference
DC-B12-0-0.5, DC-B12-2-4, DSP-1-0-0.5	Aluminum	R	5.2
	Antimony	UJ	5.2
	Copper, lead, potassium	J	5.2/6.0

R2-0004154

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N220
Sampling Dates: October 05, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 19, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
2-B1-B1-0-0.5	SOIL	N220-1	X	X	X**	X**	X
FB-01-031001	WATER	N220-2	X	X	X	X	X

*reanalyzed, **dilution

R2-0004156

Introduction

No. of Samples/Matrix:	1 Soil sample and 1 water sample
Sample Delivery Groups (SDG):	N220
Sampling Date:	October 05, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Benzene and toluene in sample 231-B1-0-0.5 were reported as non-detects by the laboratory. The validator found these to be detected compounds and thus they are corrected on the Form 1.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: Recovery was outside the required QC limits. This resulted in aroclor-1254 in sample 231-B1-0-0.5 being qualified "J" to indicate the result is estimated due to this anomaly.

Metals: All results are acceptable. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004157

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
There was no trip blank present in this SDG.

4.2 Field Blank (FB)
Field blank reported no contamination.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
PCB: Recovery was outside the required QC limits. This resulted in aroclor-1254 in sample 231-B1-0-0.5 being qualified "J" to indicate the result is estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)
All IS area counts are acceptable.

R2-0004159

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

All TIC identification is acceptable.

9.0 Compound Quantitation

VOA: Benzene and toluene in sample 231-B1-0-0.5 were reported as non-detects by the laboratory. The validator found these to be detected compounds and thus they are corrected on the Form 1.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Revised Conc.	Section Reference
231-B1-0-0.5	Benzene		0.78	9.0
	Toluene		0.65	9.0

PCB

Sample Identification	Compound	Qualifier	Section Reference
231-B1-0-0.5	Aroclor-1254	J	5.1

R2-0004161

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N698
Sampling Dates: October 12, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 11, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
RR-9-0-.5	SOIL	N698-1	X	X	X**	X	X
RR-10-0-.5	SOIL	N698-2	X	X	X**	X	X
RR-11-0-.5	SOIL	N698-3	X	X*	X**	X	X
RR-12-0-.5	SOIL	N698-4	X	X	X**	X	X
DUP-01-121001	SOIL	N698-5	X	X	X**	X	X
FB-01-121001	WATER	N698-6	X	X	X	X	X

*reanalyzed, **dilution

R2-0004163

Introduction

No. of Samples/Matrix:	5 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	N698
Sampling Date:	October 12, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

SVOA: All is acceptable.

Pesticide: Recovery for sample RR-10-0-.5 was below the required QC limits and thus all results in affected sample were qualified as estimated "UJ/J." Recovery in sample RR-11-0-.5 was above the required QC limits. All detected results in this sample were qualified as estimated "J."

PCB: All results are acceptable.

Metals: All antimony results were qualified as estimated "J" due to low matrix spike recovery. All aluminum and manganese results were qualified as estimated "J" due to high matrix spike recovery and all calcium and magnesium results were rejected "R" since their recoveries exceeded 200%. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004164

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
No trip blank was reported.

4.2 Field Blank (FB)
VOA: Field blank reported no contamination.

4.3 Method Blank (MB)
VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
Pesticide: Recovery for sample RR-10-0-.5 was below the required QC limits and thus all results in affected sample were qualified as estimated "UJ/J." Recovery in sample RR-11-0-.5 was above the required QC limits. All detected results in this sample were qualified as estimated "J."

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: All antimony results were qualified as estimated "J" due to low matrix spike recovery. All aluminum and manganese results were qualified as estimated "J" due to high matrix spike recovery and all calcium and magnesium results were rejected "R" since their recoveries exceeded 200%.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

All TIC identification is acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was reported with this SDG. All RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of the results with the "R" qualifiers.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
RR-9-0-.5	Methylene chloride	16.5U	4.3
RR-11-0-.5	Methylene chloride	6.3U	4.3
RR-12-0-.5	Methylene chloride	7.2U	4.3

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
RR-10-0-.5	4,4-DDE, 4,4'-DDT	J	5.1
	All other compounds	UJ	5.1
RR-11-0-.5	4,4-DDE, 4,4'-DDT, methoxychlor	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
RR-9-0-.5, R-11-0-.5, RR-12-0-.5, DUP-01-121001	Antimony	UJ	5.1
	Aluminum, manganese	J	5.1
	Calcium, magnesium	R	5.1
RR-10-0-.5	Antimony, aluminum, manganese	J	5.1
	Calcium, magnesium	R	5.1

RECEIVED
MAR 1 - 2002
BROWN AND CALDWELL

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N3142
Sampling Dates: November 19, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 24, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
DSP-1-406	SOIL	N3142-1	X**	X	X	X	X
FB-01-191101	WATER	N3142-2	X	X	X	X	X

*reanalyzed, **dilution

R2-0004170

Introduction

No. of Samples/Matrix:	1 Soil sample and 1 water sample
Sample Delivery Groups (SDG):	N3142
Sampling Date:	November 19, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone contamination. The affected sample result was qualified as a non-detect at CRDL.

SVOA: All results are acceptable.

Pesticide: All results are acceptable

PCB: All results are acceptable.

Metals: Field blank reported calcium, manganese, mercury and zinc contamination which resulted in these sample results being rejected in the affected sample. Aluminum and potassium results were rejected "R" due to MS recoveries that exceeded the 200% QC criteria. Antimony results were qualified as estimated "J" due to MS recovery exceedance.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004171

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

There was no trip blank present in this SDG.

4.2 Field Blank (FB)

VOA: Field blank reported acetone contamination. The affected sample result was qualified as a non-detect at CRDL.

SVOA: Field blank reported bis (2-ethyl hexyl phthalate) contamination. There was no affected sample result thus, no qualification was necessary.

Metals: Field blank reported calcium, manganese, mercury and zinc contamination which resulted in these sample results being rejected in the affected sample.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Surrogate recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Aluminum and potassium results were rejected "R" due to MS recoveries that exceeded the 200% QC criteria. Antimony results were qualified as estimated "J" due to MS recovery exceedance.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs identification is acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of the results flagged with the "R" qualifier.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
DSP-1-406	Acetone	350U	4.2

Metals

Sample Identification	Compound	Qualifier	Section Reference
DSP-1-406	Aluminum, manganese, potassium, zinc, calcium, mercury	R	5.2/4.2
	Antimony	UJ	5.2

R2-0004175

RECEIVED
MAR 1 - 2002
BROWN AND CALDWELL

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N3215
Sampling Dates: November 20, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 24, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
SED6 (0-6")	SOIL	N3215-1	X	X	X	X	X
SED6 (6-12")	SOIL	N3215-2	X	X	X	X	X
SED6 (12-18")	SOIL	N3215-3	X	X	X	X	X
SW-6	WATER	N3215-4	X	X	X	X	X
EQBL	WATER	N3215-5	X	X	X	X	X

R2-0004177

Introduction

No. of Samples/Matrix:	3 Soil samples and 2 water sample
Sample Delivery Groups (SDG):	N3215
Sampling Date:	November 20, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria.

SVOA: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria.

Pesticide: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria.

PCB: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria.

Metals & Cyanide: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria.

TOC: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004178

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
There was no trip blank present in this SDG.

4.2 Field Blank (FB)
Field blank reported no contamination.

4.3 Method Blank (MB)
Method blanks reported methylene chloride contamination but samples were already qualified as estimated due to percent solids that were below the required 50% criteria.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
Surrogate recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)
All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs identification is acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable. All soil sample results for all samples were qualified as estimated "J" due to percent solids that were below the required 50% criteria.

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N4844
Sampling Dates: December 17, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
MW-20	WATER	N4844-1	X	X	X	X	X
MW-17	WATER	N4844-2	X	X	X	X	X
MW-8	WATER	N4844-3	X	X	X	X	X
DUP011217	WATER	N4844-4	X	X	X	X	X

R2-0004183

Introduction

No. of Samples/Matrix:	4 water samples
Sample Delivery Groups (SDG):	N4844
Sampling Date:	December 17, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: All results are acceptable.

SVOA: All results are acceptable.

Pesticide: CCAL results for heptachlor exceeded the required 15% QC limits, this resulted in all heptachlor results being qualified as estimated "J."

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004184

Table of Contents

1.0 TECHNICAL HOLDING TIME 1

2.0 CALIBRATION 1

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD 1

4.0 BLANKS QUALITY CONTROL 1

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA 1

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) 1

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION 2

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) 2

9.0 COMPOUND QUANTITATION 2

10.0 FIELD DUPLICATES (FD) 2

11.0 OVERALL ASSESSMENT OF DATA 2

12.0 DATA QUALIFICATION SUMMARY TABLE 3

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
Pesticide: CCAL results for heptachlor exceeded the required 15% QC limits, this resulted in all heptachlor results being qualified as estimated "J."

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not included with this SDG.

4.2 Field Blank (FB)
A field blank was not included with this SDG.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)
All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

The laboratory correctly reported all TICs.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was included with this SDG. All RPDs are acceptable.

11.0 Overall Assessment of Data

The data as presented are usable.

R2-0004187

12.0 Data Qualification Summary Table

LCP Superfund Site

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
All samples	Heptachlor	UJ	2.2

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N4938
Sampling Dates: December 18, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 17, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
MW-9	WATER	N4938-1	X	X	X	X	X
FB011217	WATER	N4938-2	X	X	X	X	X
MW-13	WATER	N4938-3	X	X	X	X	X
MW-10	WATER	N4938-4	X	X	X	X	X
TB011217	WATER	N4938-5	X	-	-	-	-
FB011218	WATER	N4938-6	X	X	X	X	X
MW-11	WATER	N4938-7	X	X	X	X	X
MW-15	WATER	N4938-8	X	-	-	-	-

R2-0004190

Introduction

No. of Samples/Matrix:	8 water samples
Sample Delivery Groups (SDG):	N4938
Sampling Date:	December 18, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Trip blank reported acetone contamination. Sample MW-13 was impacted and the acetone result was qualified as non-detect at CRDL. Field blank reported acetone contamination. Sample MW-9 was impacted and the acetone result was qualified as non-detect at CRDL

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004191

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

VOA: Trip blank reported acetone contamination. Sample MW-13 was impacted and the acetone result was qualified as a non-detect at CRDL.

4.2 Field Blank (FB)

VOA: Field blank reported acetone contamination. Sample MW-9 was impacted and the acetone result was qualified as a non-detect at CRDL.

Metals: Field blank reported zinc contamination but no samples were qualified due to this anomaly.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

The laboratory correctly reported all TICs.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

There were no field duplicates presented in this SDG.

11.0 Overall Assessment of Data

The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
MW-9	Acetone	1710U	4.2
MW-13	Acetone	19.3U	4.1

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N5011
Sampling Dates: December 18-19, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
MW-15	WATER	N5011-1	-	X	X	X	X
MW-15	WATER	N5011-2	-	-	X	X	X
MW-14	WATER	N5011-3	X	X	X	X	X
MW-6	WATER	N5011-4	X	X	X	X	X
MW-7	WATER	N5011-5	X	X	X	X	X
MW-12	WATER	N5011-6	X	X	X	X	X
FB011219	WATER	N5011-7	X	X	X	X	X
TB011219	WATER	N5011-8	X	-	-	-	-
MW-19	WATER	N5011-9	X	X	X	X	X
MW-18	WATER	N5011-10	X	X	X	X	X

R2-0004197

Introduction

No. of Samples/Matrix:	10 water samples
Sample Delivery Groups (SDG):	N5011
Sampling Date:	December 18-19, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone and carbon disulfide contamination. All affected detected sample results for these compounds were qualified as non-detects at CRDL. TIC results for naphthalene, 1,2-dichlorobenzene, 1,3-dichlorobenzene in sample MW-12; naphthalene in samples MW-19 and MW-18 were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as TICs.

SVOA: All sample results are acceptable.

Pesticide: Endrin ketone percent relative standard deviation exceeded the required 20% QC limits. All endrin ketone results were qualified "UJ" to indicate the results are estimated. Heptachlor percent difference exceed the 15% QC limits which resulted in heptachlor results in samples MW-15 (N5011-1), MW-15 (N5011-2) and MW-14 being qualified "UJ" to indicate the results are estimated due to this anomaly. Surrogate recoveries for samples MW-12 and MW-19 were below the required QC limits. All non-detected sample results for these samples were qualified "UJ" to indicate the results are estimated due to this anomaly.

PCB: Surrogate recovery for sample MW-18 was below the required QC limits. All compounds for this sample were qualified as "UJ" to indicate the results are estimated due to this anomaly.

Metals & Cyanide: Field blank reported zinc contamination. This resulted in zinc result in samples MW-12 and MW-19 being rejected. The MS %R for cyanide was below the required QC limits and this resulted in cyanide results in all samples except MW-18 being

R2-0004198

qualified "UJ" to indicate the results are estimated

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004199

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 2
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

PEST: Endrin ketone percent relative standard deviation exceeded the required 20% QC limits. All endrin ketone results were qualified "UJ" to indicate the results are estimated.

2.2 Continuing Calibration (CCAL)

PEST: Heptachlor percent difference exceed the 15% QC limits which resulted in heptachlor results in samples MW-15 (N5011-1), MW-15 (N5011-2) and MW-14 being qualified "UJ" to indicate the results are estimated due to this anomaly.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

The trip blank reported no contamination.

4.2 Field Blank (FB)

VOA: Field blank reported acetone and carbon disulfide contamination at 228ug/L and 9.3ug/L respectively. All affected detected sample results for these compounds were qualified as non-detects.

Metals: Field blank reported zinc contamination. This resulted in zinc result in samples MW-12 and MW-19 being rejected.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

PEST: Surrogate recoveries for samples MW-12 and MW-19 were below the required QC limits. All non-detected sample results for these samples were qualified "UJ" to indicate the results are estimated due to this anomaly.

PCB: Surrogate recovery for sample MW-18 was below the required QC limits. All compounds for this sample were qualified as "UJ" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Cyanide: The MS %R was below the required QC limits and this resulted in cyanide results in all samples except MW-18 being qualified "UJ" to indicate the results are estimated.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: TIC results for naphthalene, 1,2-dichlorobenzene, 1,3-dichlorobenzene in sample MW-12; naphthalene in samples MW-19 and MW-18 were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as TICs.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of the zinc results qualified with the "R" flag, which are not usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
MW-14	Acetone	385U	4.2
MW-6	Acetone	500U	4.2
MW-7	Acetone	486U	4.2
	Carbon disulfide	5.0U	4.2
MW-12	Acetone	486U	4.2
	Carbon disulfide	5.0U	4.2
	Naphthalene, 1,2-dichlrobenzene, 1,3-dichlorobenzene	R	8.0
MW-19	Acetone	2730U	4.2
	Carbon disulfide	5.0U	4.2
	Naphthalene	R	8.0
MW-18	Acetone	409U	4.2
	Naphthalene	R	8.0

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
MW-15 (N5011-1), MW-15 (N5011-2), MW-14	Endrin ketone, heptachlor	UJ	2.1/2.2
MW-6	Endrin ketone	UJ	2.1
MW-7, FB011219, MW-18	Endrin ketone	UJ	2.1
MW-12, MW-19	All compounds	UJ	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
MW-18	All compounds	UJ	5.1

R2-0004203

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples except MW-18	Cyanide	UJ	5.2
MW-12, MW-19	Zinc	R	5.2

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N5077
Sampling Dates: December 19, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
TB0111219-02	WATER	N5077-1	X	-	-	-	-
MW-16	WATER	N5077-2	X	X	X	X	X

R2-0004206

Introduction

No. of Samples/Matrix:	2 water samples
Sample Delivery Groups (SDG):	N5077
Sampling Date:	December 19, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: The trip blank reported carbon disulfide contamination at 5.3ug/L. Detected carbon disulfide result in sample MW-16 was qualified as non-detected at CRDL due to this anomaly.

SVOA: All sample results are acceptable.

Pesticide: Surrogate recovery for sample MW-16 was below the required QC limits. All compounds for this sample were qualified as "UJ" to indicate the results are estimated due to this anomaly.

PCB: Surrogate recovery for sample MW-16 was below the required QC limits. All compounds for this sample were qualified as "UJ" to indicate the results are estimated due to this anomaly.

Metals & Cyanide: All results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004207

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
The trip blank reported carbon disulfide contamination at 5.3ug/L. Detected carbon disulfide result in sample MW-16 was qualified as non-detected at CRDL due to this anomaly.

4.2 Field Blank (FB)
There were no field blanks reported with this SDG.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
Pesticide: Surrogate recovery for samples MW-16 was below the required QC limits. All compounds for this sample were qualified "UJ" to indicate the results are estimated due to this anomaly.

PCB: Surrogate recovery for sample MW-16 was below the required QC limits. All compounds for this sample were qualified as "UJ" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

The laboratory correctly reported all TICs.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable.

R2-0004210

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
MW-16	Carbon disulfide	10U	4.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
MW-16	All compounds	UJ	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
MW-16	All compounds	UJ	5.1

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N11935
Sampling Dates: April 8, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

May 24, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
IB-1-4-6	SOIL	N11935-1	X	X	X	X	X
IB1-0-2	SOIL	N11935-2	X	X	X	X	X
IB-2-4-6	SOIL	N11935-3	X	X	X	X	X
DUP-01-0804012	SOIL	N11935-4	X	X	X	X	X
IB-2-12-14	SOIL	N11935-5	X	X	X	X	X
IB-3-4-6	SOIL	N11935-6	X	X	X	X	X
IB-3-8-10	SOIL	N11935-7	X	X	X	X	X
FB-01-080402	SOIL	N11935-8	X	X	X	X	X

R2-0004213

Introduction

No. of Samples/Matrix:	8 soil samples
Sample Delivery Groups (SDG):	N11935
Sampling Date:	April 8, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

For VOA analyses, the field blank reported acetone and methylene chloride contamination. All affected detected sample results for these compounds were qualified as non-detects at CRDL. TIC results rejected "R" for; naphthalene and 1,2, 4-trichlorobenzene in sample IB-1-0-2; IB-2-4-6, naphthalene in samples IB-1-4-6 and IB-2-12-14, acenapthene and naphthalene in sample DUP-01-0804012 and IB-3-8-10, naphthalene, 1,2-dichlorobenzene, 1,3-dichlorobenzene and 1,2,4-trichlorobenzene in samples IB-3-4-6. These compounds are semi-volatile target compounds and therefore cannot be reported as TICs.

SVOA: All sample results are acceptable.

Pesticide: Gamma-BHC, delta-BHC, endosulfan sulfate and endrin ketone percent difference exceeded the 15% QC limits. This resulted in gamma-BHC, delta-BHC, endosulfan sulfate and endrin ketone results in samples IB-2-4-6 and DUP-08-04012 being qualified "UJ" to indicate the results are estimated due to this anomaly. Endrin aldehye percent difference exceeded the 15% QC limits. This resulted in endrin aldehyde result in samples IB-1-4-6 and IB-1-0-2 being qualified "UJ" to indicate the results are estimated due to this anomaly. Surrogate recovery for sample IB-3-8-10 was above the required QC limits. All detected sample results were qualified "J" to indicate the results are estimated due to this anomaly. The MS reported 0%R for dieldrin and 4,4'-DDT. This resulted in dieldrin and 4,4'-DDT in sample IB-3-4-6 (the original field sample) being qualified as estimated. "UJ/J."

PCB: All sample results are acceptable.

R2-0004214

Metals & Cyanide: MS %R for antimony, mercury and zinc were below the required QC limits and above QC limits for magnesium. This resulted in all associated antimony, mercury and zinc sample results being qualified as estimated "UJ/J" and all detected magnesium results being qualified as estimated "J." Nickel and vanadium results were qualified as estimated "J" due to serial dilution results that were above QC limits.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004215

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

All is acceptable.

2.2 Continuing Calibration (CCAL)

Pesticide: Gamma-BHC, delta-BHC, endosulfan sulfate and endrin ketone percent difference exceeded the 15% QC limits. This resulted in gamma-BHC, delta-BHC, endosulfan sulfate and endrin ketone results in samples IB-2-4-6 and DUP-08-04012 being qualified "UJ" to indicate the results are estimated due to this anomaly. Endrin aldehye percent difference exceeded the 15% QC limits. This resulted in endrin aldehyde results in samples IB-1-4-6 and IB-1-0-2 being qualified "UJ" to indicate the results are estimated due to this anomaly.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not reported with this SDG.

4.2 Field Blank (FB)

Field blank reported no contamination.

4.3 Method Blank (MB)

VOA: Field blank reported acetone and methylene chloride contamination at 6.3ug/L and 3.0ug/L respectively. All affected detected sample results for these compounds were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Surrogate recovery for sample IB-3-8-10 was above the required QC limits. All detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Pesticide: The MS reported 0%R for dieldrin and 4,4'-DDT; this resulted in dieldrin and 4, 4'-DDT in sample IB-3-4-6 (the original field sample) being qualified as estimated. "UJ/J."

Metals: MS %R for antimony, mercury and zinc were below the required QC limits and above QC limits for magnesium. This resulted in all associated antimony, mercury and zinc sample results being qualified as estimated "UJ/J" and all detected magnesium results being qualified as estimated "J."

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Nickel and vanadium results were qualified as estimated "J" due to serial dilution results that were above QC limits.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: TIC results rejected "R" for; naphthalene and 1,2, 4-trichlorobenzene in sample IB-1-0-2; IB-2-4-6, naphthalene in samples IB-1-4-6 and IB-2-12-14, acenapthene and naphthalene in sample DUP-01-0804012 and IB-3-8-10, naphthalene, 1,2-dichlorobenzene, 1,3-dichlorobenzene and 1,2,4-trichlorobenzene in samples IB-3-4-6. These compounds are semi-volatile target compounds and therefore cannot be reported as TICs.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of the results qualified with the "R" flag. They are not usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
IB-1-4-6	Acetone	28.2U	4.3
	Methylene chloride	6.0U	4.3
	Naphthalene	R	8.0
IB-1-0-2	Acetone	27.0U	4.3
	Methylene	5.9U	4.3
	Naphthalene, 1,2,4-trichlorobenzene	R	8.0
IB-2-4-6	Acetone	48.1U	4.3
	Naphthalene, 1,2,4-trichlorobenzene	R	8.0
DUP-01-080412	Acetone	45.6U	4.3
	Naphthalene, acenapthene	R	8.0
IB-2-12-14	Acetone	35.7U	4.3
	Naphthalene	R	8.0
IB-3-4-6	Acetone	49.5U	4.3
	Naphthalene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,2,4-trichlorobenzene	R	8.0
IB-3-8-10	Acetone	52.9U	4.3
	Methylene chloride	5.4U	4.3
	Naphthalene, acenapthene	R	8.0

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
IB-1-4-6, IB-1-0-2	Endrin aldehyde	UJ	2.2
IB-1-0-2	Endrin ketone	UJ	2.2
IB-2-4-6, IB-2-12-14	Delta BHC, gamma BHC, endrin, endrin ketone	UJ	2.2
IB-3-4-6	Dieldrin, 4,4'-DDE	J	5.1
IB-3810	Beta BHC, 4,4'-DDD	J	~~5.1~~ 5.2 *

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples except FB-01-080402	Antimony	UJ	5.2
	Magnesium, mercury, nickel, vanadium, zinc 5.2 5.2 6.0 6.0 5.2	J	5.2/6.0

*See page one

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Dioxin Analyses

N12510 X

SDG Nos., N12[redacted]510X, N12606X, N12718X, N12849X
Sampling Dates: April 17, 18 & 19, 2002

N12510
page 4214
4221
N12606
page 4214
N12718
page 4221
N12849
page 4240

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 10, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	Dioxin 1613A
N12510X			
FB-01-230402	SOIL	N12510-1X	X
HB-3A	SOIL	N12510-2X	X
DUP-01-170402	SOIL	N12510-3X	X
N12606X			
FB-01-180402	SOIL	N12606-1X	X
N12718X			
HB-1A	SOIL	N12718-1X	X
FB-01-19402	SOIL	N12718-2X	X
HB-4A	SOIL	N12718-3X	X
N12849X			
FB-01-230402	SOIL	N12849-1X	X
HB-8A	SOIL	N12849-2X	X

R2-0004221

Introduction

No. of Samples/Matrix:	9 Soil samples
Sample Delivery Groups (SDG):	N2718X, N12849X, N124510X, N12606X
Sampling Date:	April 17, 18 & 19, 2002
Analyses:	Dioxin
Analytical Method:	EPA Method 1613A

Summary of Data Validation:

The adherence of laboratory analytical performance to the above method was evaluated during the data validation process. The USEPA Region II Data Validation SOP No. 25 for EPA Method 1613 was used as the guideline for data qualifications.

N12510X: The results are acceptable.

N12606X: The results are acceptable

N12718X: OCDD in sample HB-4A was rejected since the compound exceeded the calibration range.

N12849X: OCDD in sample HB-8A was rejected since the compound exceeded the calibration range.

A data validation summary table of all qualified compounds is presented in Section 10.0 and a detailed description in the report.

R2-0004222

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CALIBRATION VERIFICATION 1

3.0 BLANKS QUALITY CONTROL **1**

3.1 FIELD BLANK (FB) 1
3.2 METHOD BLANK (MB) 1

4.0 ACCURACY AND PRECISION DATA **1**

4.1 PRECISION RECOVERY STANDARD 1
4.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
4.3 BLANK SPIKES 1

5.0 INTERNAL STANDARD (IS) **1**

6.0 TARGET COMPOUND IDENTIFICATION **1**

7.0 COMPOUND QUANTITATION **1**

8.0 FIELD DUPLICATES (FD) **2**

9.0 OVERALL ASSESSMENT OF DATA **2**

10.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Calibration Verification
All is acceptable.

3.0 Blanks Quality Control

3.1 Field Blank (FB)
Field blank results are acceptable.

3.2 Method Blank (MB)
Method blank results are acceptable.

4.0 Accuracy and Precision Data

4.1 Precision Recovery Standard
Results are acceptable.

4.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Recoveries are acceptable.

4.3 Blank Spikes
All is acceptable.

5.0 Internal Standard (IS)
Results are acceptable.

6.0 Target Compound Identification
All target compound identification is acceptable.

7.0 Compound Quantitation
N12718X :OCDD in samples HB-4A was rejected since the compound exceeded the calibration range.

N12849X: OCDD in samples HB-8A was rejected since the compound exceeded the calibration range.

8.0 Field Duplicates (FD)

Field duplicates were not submitted.

9.0 Overall Assessment of Data

The data as presented are usable with the exception of the results qualified with the "R" qualifier.

10.0 Data Qualification Summary Table

LCP Superfund Site

N12718X

Sample Identification	Compound	Qualifier	Section Reference
HB-3A	OCDD	R	7.0

N12849X

Sample Identification	Compound	Qualifier	Section Reference
HB-3A	OCDD	R	7.0

R2-0004226

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12510
Sampling Dates: April 17, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Introduction

No. of Samples/Matrix:	3 soil samples
Sample Delivery Groups (SDG):	N12510
Sampling Date:	April 17, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: All results are acceptable.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004228

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
DUP-01-170402	SOIL	N12510-1	X	X	X	X	X
F1B-3A	SOIL	N12510-2	X	X	X	X	X
FB-01-170402	SOIL	N12510-3	X	X	X	X	X

R2-0004229

Table of Contents

1.0 TECHNICAL HOLDING TIME 1

2.0 CALIBRATION 1

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD 1

4.0 BLANKS QUALITY CONTROL 1

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA 1

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) 1

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION 2

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) 2

9.0 COMPOUND QUANTITATION 2

10.0 FIELD DUPLICATES (FD) 2

11.0 OVERALL ASSESSMENT OF DATA 2

12.0 DATA QUALIFICATION SUMMARY TABLE 3

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not included with this SDG.

4.2 Field Blank (FB)
VOA: Field blank reported acetone and carbon disulfide contamination. There were no affected sample results so no validation action was necessary.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)
All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

The laboratory correctly reported all TICs.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was included with this SDG. Its original field sample is not included in this SDG thus, no assessment of the duplicate pair was done.

11.0 Overall Assessment of Data

The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

No data were qualified.

R2-0004233

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12606
Sampling Dates: April 17-18, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 10, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
HB-3B	SOIL	N12606-1	X	X	X	X	X
HB-3C	SOIL	N12606-2	X	X	X	X	X
FB-01-180402	SOIL	N12606-3	X	X	X	X	X
HB-3D	SOIL	N12607-4	X	X	X	X	X

R2-0004235

Introduction

No. of Samples/Matrix:	4 soil samples
Sample Delivery Groups (SDG):	N12606
Sampling Date:	April 17-18, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone and methylene chloride contamination. The affected sample results were qualified as non-detects at CRDL.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004236

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not included with this SDG.

4.2 Field Blank (FB)
VOA: Field blank reported acetone and methylene chloride contamination. The affected sample results were qualified as non-detects at CRDL.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: Antimony recovery was outside the required QC limits and this resulted in all antimony results being qualified as estimated "J."

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TIC results are acceptable.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
HB-3B	Acetone	16.7U	4.3
	Methylene chloride	4.4U	4.3
HB-3C	Acetone	9.2U	4.3
	Methylene chloride	4.5U	4.3
HB-3D	Acetone	48.9U	4.3
	Methylene chloride	6.7U	4.3

Metals

Sample Identification	Compound	Qualifier	Section Reference
All Samples	Antimony	UJ	5.2

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12718
Sampling Dates: April 18 and 19, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
HB-1A	SOIL	N12718-1	X	X	X	X	X
HB-7A	SOIL	N12718-2	X	X	X	X	X
FB-01-190402	SOIL	N12718-3	X	X	X	X	X
HB-4A	SOIL	N12718-4	X	X	X	X	X

R2-0004242

Introduction

No. of Samples/Matrix:	4 soil samples
Sample Delivery Groups (SDG):	N12718
Sampling Date:	April 18 and 19, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone contamination. All affected detected sample results for these compounds were qualified. TIC results for naphthalene in sample HB-1A, naphthalene and 1, 2, 4-trichlorobenzene in sample HB-7A and naphthalene in sample HB-4A were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as TICs.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: Serial dilution results for copper and potassium exceeded the QC limits and this resulted in detected copper and potassium results being qualified as estimated "J."

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004243

Table of Contents

1.0 TECHNICAL HOLDING TIME 1

2.0 CALIBRATION 1

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD 1

4.0 BLANKS QUALITY CONTROL 1

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA 1

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) 1

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION 2

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) 2

9.0 COMPOUND QUANTITATION 2

10.0 FIELD DUPLICATES (FD) 2

11.0 OVERALL ASSESSMENT OF DATA 2

12.0 DATA QUALIFICATION SUMMARY TABLE 3

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not included with this SDG.

4.2 Field Blank (FB)

VOA: Field blank reported acetone contamination. All affected detected sample results for these compounds were qualified as non-detects at CRDL.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Serial dilution results for copper and potassium exceeded the QC limits and this resulted in detected copper and potassium results being qualified as estimated "J."

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: TIC results for naphthalene in sample HB-1A, naphthalene and 1, 2, 4-trichlorobenzene in sample HB-7A and naphthalene in sample HB-4A were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as TICs.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of those results qualified with the "R" flag, which are not usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
HB-1A	Naphthalene	R	8.0
HB-7A	Acetone	36.5U	4.2
	Naphthalene, 1,2,4-trichlorobenzene	R	8.0
HB-4A	Acetone	17.1U	4.2
	Naphthalene	R	8.0

Metals

Sample Identification	Compound	Qualifier	Section Reference
HB-1A, HB-7A, HB-4A	Copper, potassium	J	6.0

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12789
Sampling Dates: April 22, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-220402	SOIL	N12789-1	X	X	X	X	X
HB-5A	SOIL	N12789-2	X	X	X	X	X

R2-0004249

Introduction

No. of Samples/Matrix:	2 soil samples
Sample Delivery Groups (SDG):	N12789
Sampling Date:	April 20, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone and carbon disulfide contamination. The affected sample results were qualified as non-detects at CRDL.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004250

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not included with this SDG.

4.2 Field Blank (FB)
VOA: Field blank reported acetone and carbon disulfide contamination. The affected sample results were qualified as non-detects at CRDL.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)
All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TIC reported for naphthalene was rejected in sample HB-5A since it is a semi-volatile target compound and therefore, cannot be reported as a VOA TIC.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of the one naphthalene result qualified with the "R" qualifier.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
HB-5A	Acetone	35.9U	4.2
	Carbon disulfide	5.1U	4.2
	Naphthalene	R	8.0

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12849
Sampling Dates: April 23, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-230402	SOIL	N12849-1	X	X	X	X	X
HB-8A	SOIL	N12849-2	X	X	X	X	X
HB-8B	SOIL	N12849-3	X	X	X	X	X
HB-8C	SOIL	N12849	X	X	X	X	X

R2-0004256

Introduction

No. of Samples/Matrix:	4 soil samples
Sample Delivery Groups (SDG):	N12849
Sampling Date:	April 23, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone and carbon disulfide contamination. This resulted in acetone and carbon disulfide results in some samples being qualified as non-detects at CRDL. Method blanks reported acetone and methylene chloride contamination. Affected detected sample results for these compounds were qualified as non-detects at CRDL. TICs reported for 1,3-dichlorobenzene, 1,2-dichlorobenzene, 1, 2, 4-trichlorobenzene and naphthalene in sample HB-8C were rejected since they are semi-volatile target compounds and therefore cannot be reported as VOA TICs. TIC reported for naphthalene was rejected in sample HB-8B since it is a semi-volatile target compound and therefore, cannot be reported as a VOA TIC.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004257

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not included with this SDG.

4.2 Field Blank (FB)
VOA: Field blank reported acetone and carbon disulfide contamination. This resulted in acetone and carbon disulfide results in some samples being qualified as non-detects at CRDL.

4.3 Method Blank (MB)
VOA: Method blanks reported acetone and methylene chloride contamination. Affected detected sample results for these compounds were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: TICs reported for 1,3-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene and naphthalene in sample HB-8C were rejected since they are semi-volatile target compounds and therefore cannot be reported as VOA TICs. TIC reported for naphthalene was rejected in sample HB-8B since it is a semi-volatile target compound and therefore, cannot be reported as a VOA TIC.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of those results qualified with the "R" flag.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
HB-8A	Methylene chloride	68U	4.3
HB-8B	Acetone	33.5U	4.2
	Methylene chloride	7.2U	4.3
	Naphthalene	R	8.0
HB-8C	Methylene chloride	6.2U	4.3
	1,3-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, naphthalene	R	8.0

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12990
Sampling Dates: April 24, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 17, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
HB-9A	SOIL	N12990-1	X	X	X	X	X
FB-01-240402	SOIL	N12990-2	X	X	X	X	X

R2-0004263

Introduction

No. of Samples/Matrix:	2 soil samples
Sample Delivery Groups (SDG):	N12990
Sampling Date:	April 24, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone and methylene chloride contamination. All affected detected sample results for these compounds were qualified as non-detects. TIC results for naphthalene and 1, 3-dichlorobenzene in sample HB-9A were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as volatile TICs.

SVOA: All sample results are acceptable.

Pesticide: All sample results are acceptable.

PCB: All sample results are acceptable.

Metals & Cyanide: All sample results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004264

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
No trip blank was reported.

4.2 Field Blank (FB)
VOA: Field blank reported acetone and methylene chloride contamination. All affected detected sample results for these compounds were qualified as non-detects.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
Recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)
All IS area counts are acceptable.

R2-0004266

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: TIC results for naphthalene and 1,3-dichlorobenzene in sample HB-9A were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as volatile TICs.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of the naphthalene results qualified with the "R" flag, which are not usable.

R2-0004267

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
MW-12	Acetone	21.6U	4.2
	Methylene chloride	5.6U	4.2
	Naphthalene, 1,3-dichlorobenzene	R	8.0

R2-0004268

RECEIVED
OCT 2 6 2001
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

CAD

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E95157
Sampling Dates: July 17, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

October 24, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010/ 7471A/ 7470A
TLN-3-0-.5	Water	E95157-1	X*	X	X	X	X
TLN-3-2-4	Water	E95157-2	X*	X	X	X	X
ADS-7-0-.5	Water	E95157-3	X	X	X	X	X
ADS-1-0-.5	Water	E95157-4	X	X	X	X	X
PCA-1-0-.5	Water	E95157-5	X	X	X	X	X
PCA-1-4-6	Water	E95157-6	X	X	X	X	X
PCA-2-0-.5	Water	E95157-7	X	X*	X*	X	X
SR-1-0-.5	Water	E95157-9	X	X	X	X	X
SR-2-0-.5	Water	E95157-10	X	X	X	X	X
FB01-011707	Water	E95157-11	X	X	X	X	X

*reanalyzed

R2-0004270

Introduction

No. of Samples/Matrix:	10 Soil samples
Sample Delivery Groups (SDG):	E95157
Sampling Date:	July 17, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: The Field blank reported methylene chloride contamination. This resulted in all detected methylene chloride results being qualified as non-detects at CRDL. The recovery for one surrogate exceeded acceptable QC limits for sample TLN-3-2-4. Acetone, chloroform and benzene are the affected compounds and were qualified with the "J" validation flag to indicate the results are estimated due to this anomaly. A trip blank was reported in the sample summary but neither raw data nor Form 1 was presented with this SDG.

Pesticide: All results are acceptable

PCB: All results are acceptable.

Metals: Vanadium and zinc results were qualified as estimated "J" due to serial dilution recoveries that were outside QC limits. Antimony and lead results were qualified estimated "UJ/J" due to low matrix spike recovery.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004271

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not included with this SDG.

4.2 Field Blank (FB)

The field blank reported methylene chloride contamination at 3.0ug/L. This resulted in all detected methylene chloride results being qualified as non-detects at CRDL.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination. Affected samples were already qualified due to field blank contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

VOA: Recovery for one surrogate exceeded acceptable QC limits for sample TLN-3-2-4. Acetone, chloroform and benzene are the affected compounds and were qualified with the "J" validation flag to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony and lead results were qualified as estimate "UJ/J" due to low matrix spike recovery.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

SVOA: Recoveries for 4-nitrophenol and bis(2-chloroethyl)ether exceeded the required QC limits. There were no detected results so no qualification was necessary.

6.0 Serial Dilution (SD)

Vanadium and zinc results were qualified as estimated "J" due to SD recoveries that were outside QC limits.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There were no field duplicates presented.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
TLN-3-0.5	Methylene chloride	5.8U	4.2
TLN-3-2-4	Acetone, benzene, chloroform	J	5.1
	Methylene chloride	6.9U	4.2
ADS-7-0.5	Methylene chloride	5.2U	4.2
ADS-1-0-.5	Methylene chloride	7.6U	4.2
PCA-1-0-.5	Methylene chloride	39U	4.2
PCA-1-4-6	Methylene chloride	7.0U	4.2
PCA-2-0-.5	Methylene chloride	4.9U	4.2
SR-1-0-.5	Methylene chloride	5.8U	4.2
SR-2-0.5	Methylene chloride	6.7U	4.2

Metals

Sample Identification	Compound	Qualifier	Section Reference
TLN-3-0-.5, PCA-1-0-.5, PCA-1-4-6, PCA-2-0-.5	Antimony	UJ	5.2
	Lead, Vanadium, zinc	J	5.2/6.0
TLN-3-2-4, SR-1-0-.5	Antimony	UJ	5.2
	Lead, zinc	J	5.2/6.0
ADS-7-0-.5, ADS-1-0-.5, SR-2-0-.5	Antimony, lead, vanadium, zinc	J	5.2/6.0
FB01-011707	Antimony	UJ	5.2
	Lead	UJ	6.0

RECEIVED
JAN 11 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E95239
Sampling Dates: July 18, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 3, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
ADS-8-0-0.5	SOIL	E95239-1	X	X	X	X	X
ADS-8-4-6	SOIL	E95239-2	X	X	X	X	X
ADS-9-0-0.5	SOIL	E95239-3	X	X	X*	X	X
ADS-10-0-0.5	SOIL	E95239-4	X	X	X*	X	X
ADS-10-4-6	SOIL	E95239-5	X	X	X	X	X
ADS-11-0-0.5	SOIL	E95239-6	X	X	X*	X	X
ADS-12-0-0.5	SOIL	E95239-7	X	X	X	X	X
ADS-12-0.5-2	SOIL	E95239-8	X	X	X*	X	X
ADS-2-0-0.5	SOIL	E95239-9	X	X	X*	X	X
ADS-2-4-6	SOIL	E95239-10	X	X	X*	X	X
DUP071801	SOIL	E95239-11	X	X	X*	X	X
ADS-3-0-0.5	SOIL	E95239-12	X	X*	X*	X	X
ADS-4-0-0.5	SOIL	E95239-13	X	X*	X*	X	X
ADS-4-12-14	SOIL	E95239-14	X	X	X*	X	X
FB02-011807	WATER	E95239-15	X	X	X	X	X

*reanalyzed

R2-0004277

Introduction

No. of Samples/Matrix:	14 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E95239
Sampling Date:	July 18, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: The Field blank and method blanks reported methylene chloride contamination. This resulted in all detected methylene chloride results being qualified as non-detects at CRDL. The field blank also reported acetone contamination which resulted in some detected acetone results being qualified as non-detects at CRDL.

SVOA: Internal standard area count for perylene-d12 was below the required QC limits for samples ADS-3-0-0.5 and ADS-4-0-0.5. The corresponding target compounds for this internal standard were all qualified "UJ/J" to indicate that the results are estimated due to this anomaly.

Pesticide: Several samples reported surrogate recoveries above QC limits. All affected detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: All results are acceptable.

Metals: Lead and iron results were qualified as estimated "J" due to serial dilution recoveries that were outside QC limits. Antimony and beryllium results were qualified as estimated "UJ/J" due to low matrix spike recovery and all sodium results were rejected "R" due to matrix interference. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004278

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)
VOA: The field blank reported methylene chloride contamination at 1.6ug/L and acetone at 7.0ug/L. Affected methylene chloride sample results were already qualified due to method blank contamination. Affected acetone sample results were qualified as non-detects at CRDL.

4.3 Method Blank (MB)
VOA: Method blanks reported methylene chloride contamination. Affected samples were already qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: Antimony and beryllium results were qualified as estimated "UJ/J" due to low matrix spike recovery and all sodium results were rejected "R" due to matrix interference.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

R2-0004280

6.0 Serial Dilution (SD)

Iron and lead results were qualified as estimated "J" due to SD recoveries that were outside QC limits.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples ADS-3-0-0.5 and ADS-4-0.5. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable with the exception of sodium metal results which are not usable.

R2-0004281

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
ADS-9-0-0.5	Methylene chloride	9.3U	4.2
ADS-10-0-0.5	Acetone	44.2U	4.2
	Methylene chloride	5.9U	4.2
ADS-10-4-6	Acetone	60U	4.2
	Methylene chloride	12U	4.2
ADS-11-0-0.5	Acetone	44U	4.2
	Methylene chloride	6.2U	4.2
ADS-12-0-0.5	Acetone	28.6U	4.2
	Methylene chloride	8.2U	4.2
ADS-12-0.5-2	Methylene chloride	5.6U	4.2
ADS-2-0-0.5	Acetone	70U	4.2
	Methylene chloride	6.1U	4.2
ADS-2-4-6	Methylene chloride	4.9U	4.2
DUPE071801	Methylene chloride	6.6U	4.2
ADS-3-0-.0.5	Acetone	37.6U	4.2
	Methylene chloride	5.7U	4.2
ADS-4-0-0.5	Acetone	59.7U	4.2
	Methylene chloride	6.0U	4.2
ADS-4-12-14	Acetone	67.8U	4.2
	Methylene chloride	8.8U	4.2

SVOA

Sample Identification	Compound	Qualifier	Section Reference
ADS-3-0-.0.5	Benzo (g,h,i) perylene, Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1
ADS-4-0-0.5	Benzo (a) pyrene, benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	J	6.1
	Di-n-octyl phthalate	UJ	6.1

R2-0004282

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
ADS-10-0-0.5	Dieldrin, 4,4'-DDE, 4,4'-DDT	J	5.1
ADS-11-0-0.5	4,4'-DDE, 4,4'-DDT	J	5.1
ADS-4-0-0.5	Beta-BHC, gamma-BHC, gamma-chlordane, 4,4'-DDT	J	5.1
ADS-4-12-14	Aldrin, gamma-chlordane, 4,4'-DDT	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
ADS-8-0-0.5, ADS-10-0-0.5, ADS-11-0-0.5	Antimony, beryllium, iron, lead	J	5.2/6.0
	sodium	R	5.2
ADS-8-4-6, ADS-9-0-0.5, ADS10-4-6	Antimony, Lead, iron	J	5.2/6.0
	Beryllium	UJ	5.2
	Sodium	R	5.2
ADS-12-0-0.5, ADS-12-0.5-2	Antimony	UJ	5.2
	Iron, lead, beryllium	J	5.2/6.0
ADS-2-0-0.5, ADS-2-4-6, DUPE071801, ADS-3-0-0.5, ADS-4-0-0.5, ADS-4-12-14	Antimony, beryllium	UJ	5.2
	Iron, lead	J	6.0
	Sodium	R	5.2

R2-0004283

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E95302
Sampling Dates: July 18 and 19, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

October 24, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010/ 7471A/ 7470A
SPR-2B-0-0.5	Soil	E95302-1	X	X	X	X*	X
SPR-2B-10-12	Soil	E95302-2	X	X	X	X	X
SPR-4A-0-0.5	Soil	E95302-3	X	X	X	X	X
SPR-4A-8-10	Soil	E95302-4	X	X	X	X	X
SPR-2A-0-0.5	Soil	E95302-5	X	X	X	X*	X
SPR-2A-8-10	Soil	E95302-6	X	X	X	X	X
TLN-2-0-0.5	Soil	E95302-7	X	X	X	X	X
WWT-1-0-0.5	Soil	E95302-8	X	X*	X	X	X
ADS-6-0-0.5	Soil	E95302-9	X	X	X	X*	X
ADS-6-0.5-2	Soil	E95302-10	X	X	X	X	X
ADS-5-0-0.5	Soil	E95302-11	X	X*	X	X*	X
FB03-011907	Soil	E95302-12	X	X	X	X	X

*reanalyzed

R2-0004285

RECEIVED
NOV - 7 2001
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

CAD

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010/ 7471A/ 7470A
TLN-3-0-.5	Soil	E95157-1	X*	X	X	X	X
TLN-3-2-4	Soil	E95157-2	X*	X	X	X	X
ADS-7-0-.5	Soil	E95157-3	X	X	X	X	X
ADS-1-0-.5	Soil	E95157-4	X	X	X	X	X
PCA-1-0-.5	Soil	E95157-5	X	X	X	X	X
PCA-1-4-6	Soil	E95157-6	X	X	X	X	X
PCA-2-0-.5	Soil	E95157-7	X	X*	X*	X	X
SR-1-0-.5	Soil	E95157-9	X	X	X	X	X
SR-2-0-.5	Soil	E95157-10	X	X	X	X	X
FB01-011707	Soil	E95157-11	X	X	X	X	X

*reanalyzed

R2-0004286

Introduction

No. of Samples/Matrix:	11 Soil samples and 1 Field blank
Sample Delivery Group (SDG):	E95302
Sampling Date:	July 18 and 19, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: The method blank reported methylene chloride contamination. This resulted in all detected methylene chloride results being qualified as non-detects at CRDL.

SVOA: Low internal standard recovery was exhibited by samples WWT-1-0-0.5 and ADS-5-0-0.5. All affected compounds in these samples were qualified "UJ" to indicate the results are estimated due to this anomaly.

Pesticide: Surrogate recoveries for sample SPR-2B-10-12 was below required the required QC limits. This resulted in all sample results for this sample being qualified "UJ" to indicate the results are estimated due to this anomaly.

PCB: Surrogate recoveries were above the QC limits for samples; ADS-6-0-.5-2, ADS-6-0-0.5 and ADS-5-0-0.5. Samples ADS-6-0-.5-2 and ADS-6-0-0.5 were qualified estimated "J" for aroclor 1260. Sample ADS-5-0-0.5 was qualified estimated "J" for aroclor 1254 due to this anomaly.

Metals: All antimony results were qualified as estimated "UJ" due to deficiency in matrix spike recovery. Aluminum, copper iron and potassium detected results were qualified as estimated "J" due to exceedance in matrix spike recovery. Arsenic and beryllium results were qualified as estimated "UJ/J" due to serial dilution recoveries that were outside QC limits.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004287

Table of Contents

INTRODUCTION III

TECHNICAL HOLDING TIME 1

CALIBRATION 1

1.1 INITIAL CALIBRATION (ICAL) 1
1.2 CONTINUING CALIBRATION (CCAL) 1

CRDL STANDARD 1

BLANKS QUALITY CONTROL 1

1.3 TRIP BLANK (TB) 1
1.4 FIELD BLANK (FB) 1
1.5 METHOD BLANK (MB) 1

ACCURACY AND PRECISION DATA 1

1.6 SURROGATE RECOVERY 1
1.7 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
1.8 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

SERIAL DILUTION (SD) 2

1.9 INTERNAL STANDARDS (IS) 2

TARGET COMPOUND IDENTIFICATION 2

TENTATIVE IDENTIFICATION COMPOUNDS (TICS) 2

COMPOUND QUANTITATION 2

FIELD DUPLICATES (FD) 2

OVERALL ASSESSMENT OF DATA 2

DATA QUALIFICATION SUMMARY TABLE 3

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

Technical Holding Time
All is acceptable.

Calibration

1.1 Initial Calibration (ICAL)
The ICAL is acceptable.

1.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

CRDL Standard
All is acceptable.

Blanks Quality Control

1.3 Trip Blank (TB)
A trip blank was not included with this SDG.

1.4 Field Blank (FB)
The field blank reported no contamination.

1.5 Method Blank (MB)
VOA: One method blank reported methylene chloride contamination. Affected samples were qualified as non-detects at CRDL.

Accuracy and Precision Data

1.6 Surrogate Recovery
Pest: Recovery was below the QC limits for sample SPR-2B-10-12. All compounds in this sample were qualified "UJ" to indicate the results are estimated.

PCB: Recoveries were above the QC limits for samples; ADS-6-0-.5-2, ADS-6-0-0.5 and ADS-5-0-0.5. Samples ADS-6-0-.5-2 and ADS-6-0-0.5 were qualified estimated "J" for aroclor 1260. Sample ADS-5-0-0.5 was qualified estimated "J" for aroclor 1254 due to this anomaly.

1.7 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: Antimony results were qualified estimated "UJ/J" due to low recovery. Aluminum, Iron, copper and potassium detected results were all qualified as estimated "J" due to high recoveries.

1.8 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

Serial Dilution (SD)

Beryllium and arsenic were qualified as estimated "UJ/J" due to SD recoveries that were outside QC limits.

1.9 Internal Standards (IS)

SVOA: Two IS area counts were below the required QC limits. Samples WWT-1-0-0.5 and ADS-5-0-0.5 are the affected samples. All associated affected compounds in these two samples were qualified "UJ" to indicate the results are estimated due to this anomaly.

Target Compound Identification

All target compound identification is acceptable.

Tentative Identification Compounds (TICs)

TICs are acceptable.

Compound Quantitation

All compound quantitation is acceptable.

Field Duplicates (FD)

There were no field duplicates presented.

Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable.

Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
SPR-2B-0-0.5	Methylene chloride	12U	4.2
SPR-4A-0-0.5	Methylene chloride	5U	4.2
SPR-2A-0-0.5	Methylene chloride	9U	4.2
TLN-2-0-0.5	Methylene chloride	7.6U	4.2
WWT-1-0-0.5	Methylene chloride	13.1U	4.2
ADS-6-0-0.5	Methylene chloride	4.8U	4.2
ADS-6-0-0.5-2	Methylene chloride	5.6U	4.2
ADS-5-0-0.5	Methylene chloride	5.3U	4.2

SVOA

Sample Identification	Compound	Qualifier	Section Reference
WWT-1-0-0.5	Benzo (a) pyrene, benzo (b)	UJ	6.1
	fluorantherne, Benzo (g,h,i)perylene,		
	benzo (k) fluorantherne, butyl benzyl phthalate		
	3,3'-dichlorobenzidine, dibenzo (a,h) anthracene		
	di-n-octyl phthalate, bis (-ethyl hexyl)phthalate		
	Indeno (1,2,3-cd)pyrene		
ADS-5-0-0.5	Benzo (a) pyrene, benzo (b)	UJ	6.1
	fluorantherne, benzo (g,h,i)perylene,		
	benzo (k) fluorantherne, butyl benzyl phthalate		
	3,3'-dichlorobenzidine, dibenzo (a,h) anthracene		
	di-n-octyl phthalate, bis (-ethyl hexyl)phthalate		
	Indeno (1,2,3-cd)pyrene, chrysene, benzo(a)		
	Anthracene, pyrene		

Pest

Sample Identification	Compound	Qualifier	Section Reference
SPR-2B-10-12	All compounds	UJ	5.1

R2-0004291

PCB

Sample Identification	Compound	Qualifier	Section Reference
ADS-6-0-5-2, ADS 6-0-0.5	Aroclor 1260	J	5.1
ADS-5-0-0-5	Aroclor 1254	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
SPR-2B-0.0.5, SPR2B-10-12, SPR-4A-8-10, TLN-2-0-0.5, ADS-6-0-0-0.5, ADS-6-0.5-2	Antimony	UJ	5.2
	Aluminum, arsenic , beryllium, copper, iron , potassium	J	5.2/6.0
SPR-4A-0-0.5, SPR-2A-8-10	Antimony, beryllium	UJ	5.2/6.0
	Aluminum, arsenic, copper, iron	J	5.2/6.0
SPR-2A-0-0.5, WWT-1-0-0.5	Antimony, beryllium	UJ	5.2/6.0
	Aluminum, arsenic, copper, iron , potassium	J	5.2/6.0
ADS-5-0-0.5	Antimony,	UJ	5.2/6.0
	Aluminum, beryllium arsenic, copper, iron	J	5.2/6.0
FB-03-011907	Antimony, arsenic, beryllium	UJ	5.2/6.0

RECEIVED
JAN - 4 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

CAL

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97193
Sampling Dates: August 20, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 19, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
TLN –1 0-.5	SOIL	E97193-1	X	X	X	X	X
TLN –1 .5-2	SOIL	E97193-2	X	X	X	X	X
TLN-6 0-.5	SOIL	E97193-3	X	X	X	X	X
TLN-5 0-.5	SOIL	E97193-4	X	X	X	X	X
TLN-5 .5-2	SOIL	E97193-5	X	X	X	X*	X
TLN-4 0-.5 DUP	SOIL	E97193-6	X	X	X	X	X
TLN-4 0-.5	SOIL	E97193-7	X	X	X	X*	X
FB-01-010820	WATER	E97193-8	X	X	X	X	X

*reanalyzed, **dilution

R2-0004294

Introduction

No. of Samples/Matrix:	6 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E97193
Sampling Date:	August 20, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination at 3.5ug/L. All methylene chloride results were affected and were qualified as non-detects at CRDL.

SVOA: Results are acceptable.

Pesticide: Results are acceptable.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

Metals: Antimony results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Aluminum, copper, iron, manganese, potassium and sodium results were qualified as estimated "J" due to elevated matrix spike recoveries.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004295

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCALs are acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

There was no field blank associated with this SDG.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination at 3.5ug/L. All methylene chloride results were affected and were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Aluminum, copper, iron, manganese, potassium and sodium results were qualified as estimated "J" due to elevated matrix spike recoveries.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

R2-0004297

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was associated with this SDG. All RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable.

R2-0004298

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
TLN-1 0-.5	Methylene chloride	5.6U	4.3
TLN-1 .5-2	Methylene chloride	13.2U	4.3
TLN-5 0-0.5	Methylene chloride	8.2U	4.3
TLN-5 .5-2	Methylene chloride	12.2U	4.3
TLN-4 0-.5DUP	Methylene chloride	8.2U	4.3
TLN-4 0-.5	Methylene chloride	5.4U	4.3

PCB

Sample Identification	Compound	Qualifier	Section Reference
TLN-1 .5-2, TLN-4 0-.5	Aroclor 1254, aroclor 1260	J	5.1
TLN-6 0-.5	Aroclor 1260	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
TLN-1 0-.5, TLN-6 0-.5, TLN-5 0-.5, TLN-4 0-.5, TLN-4 0-.5DUP	Antimony,	UJ	5.2
	Aluminum, copper, iron, manganese, potassium, sodium	J	5.2/6.0
TLN-1 .5-2, TLN-5 .5-2	Antimony, aluminum, copper, iron, manganese, potassium, sodium	J	5.2/6.0

R2-0004299

RECEIVED
JAN 11 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97258
Sampling Dates: August 21, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 3, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
TLS 3 0-.5	SOIL	E97258-1	X	X	X	X*	X
TLS 10 0-.5	SOIL	E97258-2	X	X	X	X*	X
TLS 10 8-10	SOIL	E97258-3	X	X**	X**	X*	X
SPR 3 0-.5	SOIL	E97258-4	X	X	X	X*	X
SPR 3 4-6	SOIL	E97258-5	X	X	X*	X	X
TLS 9 0-.5	SOIL	E97258-6	X	X*	X*	X	X
LP 4 0-.5	SOIL	E97258-7	X	X	X*	X	X
LP 4 .5-2	SOIL	E97258-8	X	X*	X*	X	X
TLS 7 0-.5	SOIL	E97258-9	X	X	X*	X*	X
TLS 6 0-.5	SOIL	E97258-10	X	X	X*	X*	X

*reanalyzed, **dilution

R2-0004301

Introduction

No. of Samples/Matrix:	10 Soil samples
Sample Delivery Groups (SDG):	E97258
Sampling Date:	August 21, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Results are acceptable.

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples TLS-6-0-.5, LP-4 .5-2 and TLS-9 0-.5. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

Metals: Antimony and nickel results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Calcium and zinc results were qualified as estimated "J" due to SD recoveries that were outside QC limits. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004302

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The percent difference exceeded the 20% QC criteria for delta-BHC. All results in affected samples were qualified as estimated "UJ/J."

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

There was no field blank associated with this SDG.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony and nickel results were qualified as estimated "UJ/J" due to low matrix spike recoveries.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Calcium and zinc results were qualified as estimated "J" due to SD recoveries that were outside QC limits.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples TLS-6-0-.5, LP-4 .5-2 and TLS-9 0-.5. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There are no field duplicates associated with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable.

R2-0004305

12.0 Data Qualification Summary Table

LCP Superfund Site

SVOA

Sample Identification	Compound	Qualifier	Section Reference
TLS 9 0-.5	Benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, Benzo (g,h,i) perylene, benzo (k) fluoranthene, Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd) pyrene	UJ	6.1
LP-4 .5-2	Benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, Benzo (g,h,i) perylene, benzo (k) fluoranthene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd) pyrene	UJ	6.1
TLS-6 0-.5	Benzo (b) fluoranthene, Dibenzo (a,h) anthracene, di-n-octyl phthalate	J	6.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
All samples	Delta-BHC	J	2.1
TLS 10 8-10	4,4'-DDE	J	5.1
LP-4 .5-2	4,4'-DDT	J	5.1
TLS 7 0-.5	Beta BHC, endosulfan sulfate, heptachlor epoxide, endrin ketone	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
TLS 3 0-.5	Aroclor 1254, aroclor 1260	J	5.1
TLS 10 0-.5, SPR 3 0-.5, LP-4 .5-2	Aroclor 1260	J	5.1
TLS 7 0-.5, LP-4 .5-2, TLS-6 0-.5	Aroclor 1254	J	5.1

R2-0004306

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples except SPR 3 0-.5 and TLS-6 0-.5	Antimony,	UJ	5.2
	Calcium, nickel, zinc	J	5.2/6.0
SPR 3 0-.5 and TLS-6 0-.5	Antimony, calcium, nickel, zinc	J	5.2/6.0

R2-0004307

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97259
Sampling Dates: August 21, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 13, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
EC-1	SOIL	E97259-1	X	X	X**	X	X
EC-2	SOIL	E97259-2	X	X	X**	X	X
EC-3	SOIL	E97259-3	X	X	X**	X	X
EC-4	SOIL	E97259-4	X	X	X**	X	X
EC-5	SOIL	E97259-5	X	X	X**	X	X
EC-6	SOIL	E97259-6	X	X	X**	X	X
EC-7	SOIL	E97259-7	X	X	X**	X	X
EC-8	SOIL	E97259-8	X	X	X**	X	X
EC-9	SOIL	E97259-9	X	X	X**	X*	X
SC-1	SOIL	E97259-10	X	X	X**	X*	X
Blind Dup	SOIL	E97259-11	X	X	X**	X	X

*reanalyzed, **dilution

R2-0004309

Introduction

No. of Samples/Matrix:	11 Soil samples
Sample Delivery Groups (SDG):	E97259
Sampling Date:	August 21, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blank reported methylene chloride contamination at 5.9ug/L. All detected methylene chloride results were qualified as non-detects at CRDL.

SVOA: IS Perylene-d12 area counts were below the required QC limits for several samples. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: Results are acceptable.

PCB: Results are acceptable.

Metals: Antimony results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All aluminum, copper, iron and some sodium results were qualified as estimated "J" due to high spike recoveries. All magnesium results were rejected "R" due to elevated spike recoveries. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004310

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)
There was no field blank associated with this SDG.

4.3 Method Blank (MB)
VOA: Method blank reported methylene chloride contamination at 5.9ug/L. All detected methylene chloride results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
Recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: Antimony results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All aluminum, copper, iron and some sodium results were qualified as estimated "J" due to high spike recoveries. All magnesium results were rejected "R" due to elevated spike recoveries.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

R2-0004312

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for several samples. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There was a blind field duplicates associated with this SDG. All RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some samples were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable except those results flagged with the "R" qualifier.

R2-0004313

12.0 Data Qualification Summary Table

LCP Superfund Site

Sample Identification	Compound	Qualifier	Section Reference
EC-1	Methylene chloride	10.7U	4.3
EC-2	Methylene chloride	11.3U	4.3
EC-3	Methylene chloride	8.2U	4.3
EC-4	Methylene chloride	10.0U	4.3
EC-5	Methylene chloride	7.6U	4.3
EC-6	Methylene chloride	10U	4.3
EC-7	Methylene chloride	9.8U	4.3
EC-8	Methylene chloride	10.6U	4.3
EC-9	Methylene chloride	10.2U	4.3
SC-1	Methylene chloride	12.6U	4.3

SVOA

Sample Identification	Compound	Qualifier	Section Reference
EC-3	Benzo (a) pyrene, benzo (b) fluoranthene, indeno (1,2,3-cd) pyrene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate	UJ	6.1
EC-4	Benzo (a) pyrene, benzo (b) fluoranthene, bezno (g,h,i) prylene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate	UJ	6.1
EC-7	Benzo (a) pyrene, benzo (b) fluoranthene, benzo (g,h,i) prylene, indeno (1,2,3-cd) pyrene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate	UJ	6.1
EC-8	Benzo (a) pyrene, benzo (b) fluoranthene, benzo (g,h,i) perylene, indeno (1,2,3-cd) pyrene, benzo (k) fluoranthene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate	UJ	6.1
EC-9	Benzo (a) pyrene, benzo (b) fluoranthene, bezno (g,h,i) perylene, indeno (1,2,3-cd) pyrene, , di-n-octyl phthalate	J	6.1
E-10	Benzo (b) fluoranthene, dibenzo (a,h)anthracene, indeno, (1,2,3-cd) pyrene, , di-n-octyl phthalate	UJ	6.1
	Benzo (a) pyrene, benzo (k) fluoranthene	J	6.1

R2-0004314

Metals

Sample Identification	Compound	Qualifier	Section Reference
EC-1, EC-2, EC-3, EC-4, EC-5, EC-7, EC-8, EC-9,	Antimony,	UJ	5.2
	Aluminum, copper, Iron	J	5.2
	Magnesium	R	5.2
EC-6, SC-1	Antimony,	UJ	5.2
	Aluminum, copper, Iron	J	5.2
	Magnesium	R	5.2

R2-0004315

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97283
Sampling Dates: August 20, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
SW-1	WATER	E97283-1	X	X	X	X	X
SW-2	WATER	E97283-2	X	X	X	X	X
SW-3	WATER	E97283-3	X	X	X	X	X
SW-4	WATER	E97283-4	X	X	X	X	X
SW-5	WATER	E97283-5	X	X	X	X	X
SW-5EQBL	WATER	E97283-6	X	X	X	X	X
Trip Blank	WATER	E97283-7	X	-	-	-	-

R2-0004317

Introduction

No. of Samples/Matrix:	7 water samples
Sample Delivery Groups (SDG):	E97283
Sampling Date:	August 20, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Results are acceptable.

SVOA: Results are acceptable.

Pesticide: CCAL results for methoxychlor and 4,4'-DDT exceeded the required 15% QC limits. All sample results (except EQBL) for these compounds were qualified as estimated "UJ" due to this anomaly.

PCB: Results are acceptable.

Metals: Serial dilution result for sodium exceeded the required QC limits; all sodium results were qualified as estimated "J" due to this anomaly. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004318

Table of Contents

1.0 TECHNICAL HOLDING TIME 1

2.0 CALIBRATION 1

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD 1

4.0 BLANKS QUALITY CONTROL 1

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA 1

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) 1

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION 2

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) 2

9.0 COMPOUND QUANTITATION 2

10.0 FIELD DUPLICATES (FD) 2

11.0 OVERALL ASSESSMENT OF DATA 2

12.0 DATA QUALIFICATION SUMMARY TABLE 3

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

CCAL results for methoxychlor and 4,4'-DDT exceeded the required 15% QC limits. All sample results (except EQBL) for these compounds were qualified as estimated "UJ" due to this anomaly.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

The field blank reported methylene chloride contamination but there were no detected methylene chloride results thus, no validation action was necessary.

4.3 Method Blank (MB)

Method blank reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Metals: Serial dilution result for sodium exceeded the required QC limits; all sodium results were qualified as estimated "J" due to this anomaly.

6.1 Internal Standards (IS)

All IS results are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There were no field duplicates associated with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
All samples except EQBL	Methoxychlor, 4,4-DDT	UJ	2.2

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples	Sodium	J	6.0

RECEIVED
JAN - 9 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97358
Sampling Dates: August 21 & 22, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

January 3, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
RR-1-0 0.5	SOIL	E97358-1	X	X*	X	X	X
RR-1 14-16	SOIL	E97358-2	X**	X*	X**	X**	X
230 B6 0-0.5	SOIL	E97358-3	X	X	X	X**	X
230 B6 1.5-2	SOIL	E97358-4	X	X	X	X	X
230 B7 0-0.5	SOIL	E97358-5	X	X	X	X**	X
230 B7 1.5-2	SOIL	E97358-6	X	X	X**	X	X
DUP-01-08 2201	SOIL	E97358-7	X	X	X**	X	X
230 B9 0-0.5	SOIL	E97358-8	X	X	X*	X	X
230 B8 1.5-2	SOIL	E97358-9	X	X	X**	X	X
230 B9 0-0.5	SOIL	E97358-10	X	X	X	X	X
230 B9 1.5-2	SOIL	E97358-11	X	X	X	X	X
TLS-5 0-0.5	SOIL	E97358-12	X	X	X	X**	X
FB-01-210801	WATER	E97358-13	X	X	X	X	X
FB-01-220801	WATER	E97358-14	X	X	X	X	X

*reanalyzed, **dilution

R2-0004324

Introduction

No. of Samples/Matrix:	12 Soil samples and 2 water samples
Sample Delivery Groups (SDG):	E97358
Sampling Date:	August 21 & 22, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Some methylene chloride results were qualified as non-detects at CRDL since their method blank reported methylene chloride contamination.

SVOA: Results are acceptable.

Pesticide: Results are acceptable.

PCB: Surrogate recoveries for sample 230 B6 0-0.5 were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly and all non-detected compounds were qualified "UJ" to indicate the results are estimated due to this anomaly.

Metals: Antimony and sodium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Aluminum results were qualified as estimated "J" due to exceedance in matrix spike recoveries. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004325

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

Field blanks reported no contamination.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination at 10ug/L. All detected methylene chloride results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for one sample was above the required QC limits. There were no detected compounds so no qualification was necessary.

PCB: Recoveries for sample 230 B6 0-0.5 were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly and all non-detected compounds were qualified "UJ" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony and sodium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Aluminum results were qualified as estimated "J" due to exceedance in matrix spike recoveries.

R2-0004327

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

SD is acceptable.

6.1 Internal Standards (IS)

IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A blind field duplicate was presented in the SDG. RPDs are calculated when both original and Duplicate report detects. The following RPDs were calculated;
VOA: Acetone-67% and benzene-75%.

SVOA: Benzo (a) anthracene-38%, benzo (a) pyrene- 32%, benzo (b) fluoranthene-14%, benzo (k) fluoranthene-30%, chrysene-13%, fluoranthene-54%, phenanthrene-6%, pyrene-48% and 1,2,3-trichlorobenzene-25%.

Pesticide: 4,4'-DDD-1.2%, 4,4'-DDE-18% and 4,4'-DDT-30%

PCB: No RPDs were calculated.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some due to calibration range exceedance (see Table 1.0). The data as presented are usable.

R2-0004328

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
RR-1 0-0.5,	Methylene chloride	9.4U	4.3
230 B6 0-0.5	Methylene chloride	10.6U	4.3
230 B6 1.5-2	Methylene chloride	10.9U	4.3
230 B7 0-0.5	Methylene chloride	15.8U	4.3
230 B7 1.5-2	Methylene chloride	12.0U	4.3
DUP-01-08 2201	Methylene chloride	13.8U	4.3
230 B8 1.5-2	Methylene chloride	13.6U	4.3
230 B9 0-0.5	Methylene chloride	12.6U	4.3
230 B9 1.5-2	Methylene chloride	12.0U	4.3
TLS-5 0-0.5	Methylene chloride	10.2U	4.3

PCB

Sample Identification	Compound	Qualifier	Section Reference
230 B6 0-0.5	Aroclor 1016, aroclor 1221, aroclor 1232, aroclor 1242 aroclor-1248 aroclor 1260	UJ	5.1
	Aroclor 1254	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples except 230 B6 0-0.5, 230 B6 1.5-2 and 230 B7 0-0.5	Antimony	UJ	5.2
	Aluminum, sodiium	J	5.2
230 B6 0-0.5, 230 B6 1.5-2 and 230 B7 0-0.5	Antimony, sodium	UJ	5.2
	Aluminum	J	5.2

R2-0004329

RECEIVED
JAN 11 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97359
Sampling Dates: August 22, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

January 3, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
231-B2-0-0.5	SOIL	E97359-1	X	X*	X	X**	X
231-B2-0.5-2	SOIL	E97359-2	X	X*	X	X**	X
231 B3 0-0.5	SOIL	E97359-3	X	X*	X	X**	X
SPR-4B-4-6	SOIL	E97359-5	X*	X*	X	X	X

*reanalyzed, **dilution

R2-0004331

Introduction

No. of Samples/Matrix:	4 Soil samples
Sample Delivery Groups (SDG):	E97359
Sampling Date:	August 22, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Some methylene chloride results were qualified as non-detects at CRDL since their method blank reported methylene chloride contamination.

SVOA: Results are acceptable.

Pesticide: Results are acceptable.

PCB: Surrogate recoveries for sample 230 B6 0-0.5 were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly and all non-detected compounds were qualified "UJ" to indicate the results are estimated due to this anomaly.

Metals: Antimony and sodium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. Aluminum results were qualified as estimated "J" due to exceedance in matrix spike recoveries. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004332

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)
Field blanks were not reported with this SDG.

4.3 Method Blank (MB)
VOA: Method blanks reported methylene chloride contamination and this resulted in detected methylene chloride results beingqualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

PCB: Recoveries for sample several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
All results are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
SD is acceptable.

R2-0004334

6.1 Internal Standards (IS)

IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There are no field duplicates associated with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some due to calibration range exceedance (see Table 1.0). Sample SPR-4B-4-6 was reanalyzed due to internal standard area failure. The data as presented are usable.

R2-0004335

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
231-B2-0-0.5	Methylene chloride	12.9U	4.3
231 B2 0.5-2	Methylene chloride	11.1U	4.3
231 B3 0-0.5	Methylene chloride	9.5U	4.3

PCB

Sample Identification	Compound	Qualifier	Section Reference
231-B2-0-0.5, 231-B2-0.5-2, 231- B3-0-0.5	Aroclor 1254	J	5.1

R2-0004336

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB, Metals and TOC Analyses

SDG No. E97444
Sampling Dates: August 22, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 3, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals & TOC 6010B/ 7471A/ 7470A/ 9012/160.1
SED 1 (0.0-0.5FT)	SED	E97444-1	X	X	X	X	X
SED 1 (0.5-1.0FT)	SED	E97444-2	X	X*	X	X	X
SED 1 (1.0-1.5FT)	SED	E97444-3	X	X	X	X	X
SED 2 (0.0-0.5FT)	SED	E97444-4	X	X**	X	X	X
SED 2 (0.5-1.0FT)	SED	E97444-5	X	X	X	X	X
SED 2 (1.0-1.5FT)	SED	E97444-6	X	X**	X	X	X
SED 3 (0.0-0.5FT)	SED	E97444-7	X	X	X	X	X
SED 3 (0.5-1.0FT)	SED	E97444-8	X	X	X	X	X
SED 3 (1.0-1.5FT)	SED	E97444-9	X	X	X	X	X
SED 4 (0.0-0.5FT)	SED	E97444-10	X	X	X	X	X
SED 4 (0.5-1.0FT)	SED	E97444-11	X	X	X	X	X
SED 5 (0.0-0.5FT)	SED	E97444-12	X	X	X	X	X
SED 5 (0.5-1.0FT)	SED	E97444-13	X	X	X	X	X
SED 5 (1.0-1.5FT)	SED	E97444-14	X	X	X	X	X
SC- 2	~~SED~~ Soil	E97444-15	X	X	X	X	X
SC-3	~~SED~~ Soil	E97444-16	X	X	X	X	X
FIELD BLANK-1	WATER	E97444-17	X	X	X	X	X
FIELD BLANK-2	WATER	E97444-18	X	X	X	X	X
TRIP BLANK	WATER	E97444-19	X				

*reanalyzed, **dilution

R2-0004338

Introduction

No. of Samples/Matrix:	16 Sediment samples and 3 water samples
Sample Delivery Groups (SDG):	E97444
Sampling Date:	August 22, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB, Metals and TOC
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082, 6010B/ 7470A/7471/9012 and 160.1

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: The method blanks reported methylene chloride contamination. This resulted in some detected methylene chloride results being qualified as non-detects at CRDL.

SVOA: All compounds in some samples were qualified as estimated "J" since the reported solids were below the 50% minimum requirement.

Pesticide: All compounds in some samples were qualified as estimated "J" since their reported solids were below the 50% minimum requirement.

PCB: Recoveries for surrogate exceeded the QC limits in sample SC-2; this resulted in aroclor1260 being qualified as estimated "J." All compounds in some samples were qualified as estimated "J" since their reported solids were below the 50% minimum requirement.

Metals: Aluminum, barium, calcium, magnesium and zinc results were qualified as estimated "J" due to matrix spike recoveries that were outside QC limits. Antimony results were qualified as estimated "UJ/J" due to low matrix spike recovery. All compounds in some samples were qualified as estimated "J" since their reported solids were below the 50% minimum requirement.

Cyanide: All compounds in some samples were qualified as estimated "J" since their reported solids were below the 50% minimum requirement.

TOC: All compounds in some samples were qualified as estimated "J" since their reported

R2-0004339

solids were below the 50% minimum requirement.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004340

Table of Contents

1.0 TECHNICAL HOLDING TIME 1

2.0 CALIBRATION 1

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD 1

4.0 BLANKS QUALITY CONTROL 1

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA 1

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) 1

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION 2

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) 2

9.0 COMPOUND QUANTITATION 2

10.0 FIELD DUPLICATES (FD) 2

11.0 OVERALL ASSESSMENT OF DATA 2

12.0 DATA QUALIFICATION SUMMARY TABLE 3

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
Trip blank reported no contamination.

4.2 Field Blank (FB)
Field blank reported no contamination.

4.3 Method Blank (MB)
VOA: Method blanks reported methylene chloride contamination. Affected samples were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
PCB: Recoveries for surrogate exceeded the QC limits in sample SC-2; this resulted in arochlor1260 being qualified as estimated "J."

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: Aluminum and zinc detected results were qualified as estimated "J" due to exceedance in matrix spike recovery. Antimony, beryllium, calcium, iron and magnesium results were qualified as estimated "UJ/J" due to low matrix spike recovery.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
Results are acceptable.

R2-0004342

6.1 Internal Standards (IS)

Results are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

No field duplicates were presented.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures (see Table 1.0). The data as presented are usable. Several sample results were qualified as estimated "J" since their percent solids were less the 50% minimum requirement.

R2-0004343

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
SED 1(0.0-0.5FT)	Methylene chloride	39U	4.2
SED 1(0.5-1.0FT)	Methylene chloride	26U	4.2
SED 1(1.0-1.5FT)	Methylene chloride	18.9U	4.2
SED 2 (0.5-1.0FT)	Methylene chloride	21U	4.2
SED 2 (1.0-1.5FT)	Methylene chloride	22.4U	4.2
SED 3 (0.0-0.5FT)	Methylene chloride	18.6U	4.2
SED 3 (0.5-1.0FT)	All compounds	J	11.0
SED 3 (1.0-1.5FT)	All compounds	J	11.0
SED 4 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.5-1.0FT)	All compounds	J	11.0
SED 5 (1.0-1.5FT)	All compounds	J	11.0

SVOA

Sample Identification	Compound	Qualifier	Section Reference
SED 3 (0.5-1.0FT)	All compounds	J	11.0
SED 3 (1.0-1.5FT)	All compounds	J	11.0
SED 4 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.5-1.0FT)	All compounds	J	11.0
SED 5 (1.0-1.5FT)	All compounds	J	11.0

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
SED 3 (0.5-1.0FT)	All compounds	J	11.0
SED 3 (1.0-1.5FT)	All compounds	J	11.0
SED 4 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.5-1.0FT)	All compounds	J	11.0
SED 5 (1.0-1.5FT)	All compounds	J	11.0

R2-0004344

PCB

Sample Identification	Compound	Qualifier	Section Reference
SED 3 (0.5-1.0FT)	All compounds	J	11.0
SED 3 (1.0-1.5FT)	All compounds	J	11.0
SED 4 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.0-0.5FT)	All compounds	J	11.0
SED 5 (0.5-1.0FT)	All compounds	J	11.0
SED 5 (1.0-1.5FT)	All compounds	J	11.0
SC- 2	Aroclor-1260	J	6.2

Metals

Sample Identification	Compound	Qualifier	Section Reference
SED 1(0.0-0.5FT), SED 2(0.0-0.5FT), SED 2 (0.5-1.0FT), SED 2 (1.0-1.5FT), SED 3 (0.0-0.5FT), SED 4 (0.5-1.0FT), SC-2, SC-3	Aluminum, barium calcium, iron, magnesium	J	5.2
	Antimony	UJ	5.2
SED 1(0.5-1.0FT),	Aluminum, antimony, barium calcium, iron, magnesium	J	5.2
SED 1(1.0-1.5FT)	Aluminum, antimony, barium calcium, iron, magnesium	J	5.2
SED 3 (0.5-1.0FT), SED 3 (1.0-1.5FT), SED 4 (0.0-0.5FT), SED 5 (0.0-0.5FT), SED 5 (0.5-1.0FT), SED 5 (1.0-1.5FT)	Aluminum, barium calcium, iron, magnesium	J	5.2
	Antimony	UJ	5.2
	All other analytes	J	11.0

Cyanide

Sample Identification	Compound	Qualifier	Section Reference
SED 3 (0.5-1.0FT)	Cyanide	J	11.0
SED 3 (1.0-1.5FT)	Cyanide	J	11.0
SED 4 (0.0-0.5FT)	Cyanide	J	11.0
SED 5 (0.0-0.5FT)	Cyanide	J	11.0
SED 5 (0.5-1.0FT)	Cyanide	J	11.0
SED 5 (1.0-1.5FT)	Cyanide	J	11.0

R2-0004345

TOC

Sample Identification	Compound	Qualifier	Section Reference
SED 3 (0.5-1.0FT)	TOC	J	11.0
SED 3 (1.0-1.5FT)	TOC	J	11.0
SED 4 (0.0-0.5FT)	TOC	J	11.0
SED 5 (0.0-0.5FT)	TOC	J	11.0
SED 5 (0.5-1.0FT)	TOC	J	11.0
SED 5 (1.0-1.5FT)	TOC	J	11.0

R2-0004346

RECEIVED
JAN 11 2002
BROWN AND CALDWELL

CAD
FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97445
Sampling Dates: August 23, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 6, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-01082B	WATER	E97445-1	X	X	X	X	X
SPR-4B-4-6	SOIL	E97445-2	X**	X	X	X	X
WWT-1-12-14	SOIL	E97445-3	X**	X	X**	X*	X
WWT-2-0-0.5	SOIL	E97445-4	X	X*	X**	X*	X
WWT-2-12-14	SOIL	E97445-5	X**	X*	X**	X*	X
WWT-3-0-0.5	SOIL	E97445-6	X	X*	X**	X*	X
WWT-3-12-14	SOIL	E97445-7	X**	X	X**	X*	X

*reanalyzed, **dilution

R2-0004348

Introduction

No. of Samples/Matrix:	6 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E97445
Sampling Date:	August 23, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Benzene and toluene exceeded the calibration range for sample WWT-2-12-14. Upon reanalysis at 250X dilution the holding time was exceeded. Thus, sample WWT-2-12-14 is being reported as a hybrid of the original and diluted analyses. Benzene and toluene results are qualified as estimated "J" due to this holding time anomaly.

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples WWT-2-0-0.5 and WWT-2-12-14. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: Several samples reported surrogate recoveries above QC limits. All affected detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Several samples reported surrogate recoveries above QC limits. All affected detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

Metals: Antimony and barium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All zinc results were qualified as estimated "J" due to matrix spike recovery exceedance. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004349

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 2
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

Benzene and toluene exceeded the calibration range for sample WWT-2-12-14. Upon reanalysis at 250X dilution, the holding time was exceeded. Thus, sample WWT-2-12-14 is being reported as a hybrid of the original and diluted analyses. Benzene and toluene results are qualified as estimated "J" due to this holding time anomaly.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The percent difference exceeded the 20% QC criteria for 4,4'-DDT and methoxychlor. All samples were affected thus, all results for these compounds in all samples were qualified as estimated "UJ/J."

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

There was no field blank associated with this SDG.

4.3 Method Blank (MB)

Method blanks reported methylene chloride contamination at 2.76ug/L. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

R2-0004351

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony and barium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All zinc results were qualified as estimated "J" due to matrix spike recovery exceedance.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Results are acceptable.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples WWT-2-0-0.5 and WWT-2-12-14. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

No field duplicates were included with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable.

R2-0004352

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
WWT-2-12-14	Benzene#, toluene#	J	1.0
WWT-3-0-0.5	Methylene chloride	9.7U	4.3

#250X dilution

SVOA

Sample Identification	Compound	Qualifier	Section Reference
WWT-2-0-0.5	Benzo (g,h,i) perylene, benzo (a) pyrene Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1
	Benzo (b) fluoranthene	J	6.1
WWT-2-12-14	Benzo (b) fluoranthene, Benzo (g,h,i) perylene,	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
All samples	Methoxychlor, 4,4'-DDT	UJ	2.2
WWT-2-0-0.5, WWT-2-12-14, WWT-3-0-0.5,WWT-3-12-14	Alpha chlordane	J	5.1
SPR-4B-4-6	4,4"-DDE, 4,4'-DDD	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
WWT-1-12-14	Aroclor-1260	J	5.1
WWT-2-0-0.5, WWT-2-12-14, WWT-3-0-0.5, WWT-3-12-14	Aroclor-1254	J	5.1

R2-0004353

Metals

Sample Identification	Compound	Qualifier	Section Reference
SPR-4B-4-6, WWT-2-0-0.5, WWT-3-0-0.5	Antimony	UJ	5.2
	Barium, zinc	J	5.2
WWT-1-12-14, WWT-2-12-14, WWT-3-12-14	Antimony	J	5.2
	Barium, zinc	J	5.2

R2-0004354

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97445
Sampling Dates: August 23, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

December 6, 2001

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-01082B	WATER	E95445-1	X	X	X	X	X
SPR-4B-4-6	SOIL	E95445-2	X**	X	X	X	X
WWT-1-12-14	SOIL	E95445-3	X**	X	X**	X*	X
WWT-2-0-0.5	SOIL	E95445-4	X	X*	X**	X*	X
WWT-2-12-14	SOIL	E95445-5	X**	X*	X**	X*	X
WWT-3-0-0.5	SOIL	E95445-6	X	X*	X**	X*	X
WWT-3-12-14	SOIL	E95445-7	X**	X	X**	X*	X

*reanalyzed, **dilution

R2-0004356

Introduction

No. of Samples/Matrix:	6 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E95445
Sampling Date:	August 23, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Benzene and toluene exceeded the calibration range for sample WWT-2-12-14. Upon reanalysis at 250X dilution the holding time was exceeded. Thus, sample WWT-2-12-14 is being reported as a hybrid of the original and diluted analyses. Benzene and toluene results are qualified as estimated "J" due to this holding time anomaly.

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples WWT-2-0-0.5 and WWT-2-12-14. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: Several samples reported surrogate recoveries above QC limits. All affected detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Several samples reported surrogate recoveries above QC limits. All affected detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

Metals: Antimony and barium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All zinc results were qualified as estimated "J" due to matrix spike recovery exceedance. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004357

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 2
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

Benzene and toluene exceeded the calibration range for sample WWT-2-12-14. Upon reanalysis at 250X dilution, the holding time was exceeded. Thus, sample WWT-2-12-14 is being reported as a hybrid of the original and diluted analyses. Benzene and toluene results are qualified as estimated "J" due to this holding time anomaly.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The percent difference exceeded the 20% QC criteria for 4,4'-DDT and methoxychlor. All samples were affected thus, all results for these compounds in all samples were qualified as estimated "UJ/J."

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

There was no field blank associated with this SDG.

4.3 Method Blank (MB)

Method blanks reported methylene chloride contamination at 2.76ug/L. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

R2-0004359

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony and barium results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All zinc results were qualified as estimated "J" due to matrix spike recovery exceedance.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Results are acceptable.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples WWT-2-0-0.5 and WWT-2-12-14. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

No field duplicates were included with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable.

R2-0004360

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
WWT-2-12-14	Benzene#, toluene#	J	1.0
WWT-3-0-0.5	Methylene chloride	9.7U	4.3

#250X dilution

SVOA

Sample Identification	Compound	Qualifier	Section Reference
WWT-2-0-0.5	Benzo (g,h,i) perylene, benzo (a) pyrene Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1
	Benzo (b) fluoranthene	J	6.1
WWT-2-12-14	Benzo (b) fluoranthene, Benzo (g,h,i) perylene,	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
All samples	Methoxychlor, 4,4'-DDT	UJ	2.2
WWT-2-0-0.5, WWT-2-12-14, WWT-3-0-0.5,WWT-3-12-14	Alpha chlordane	J	5.1
SPR-4B-4-6	4,4"-DDE, 4,4'-DDD	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
WWT-1-12-14	Aroclor-1260	J	5.1
WWT-2-0-0.5, WWT-2-12-14, WWT-3-0-0.5, WWT-3-12-14	Aroclor-1254	J	5.1

R2-0004361

Metals

Sample Identification	Compound	Qualifier	Section Reference
SPR-4B-4-6, WWT-2-0-0.5, WWT-3-0-0.5	Antimony	UJ	5.2
	Barium, zinc	J	5.2
WWT-1-12-14, WWT-2-12-14, WWT-3-12-14	Antimony	J	5.2
	Barium, zinc	J	5.2

R2-0004362

RECEIVED
MAR 1 - 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Dioxin Analyses

26947 26946 26952 27172 27173 30231 30232 30233 27169 27140

SDG Nos. E97554X, E97941X, E98917X, EN220X
Sampling Dates: August 24, 31, September 17 & October 5, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 20, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	Dioxin 1613A
E97554X			
FB-01-010824	WATER	E97554-3X	X
LP-8-0-0.5	SOIL	E97554-9X	X
DUP-01-010824	SOIL	E97554-10X	X
E97941X			
FB-01-10827	WATER	E97941-2X	X
CF-1-0-0.5	SOIL	E97941-6X	X
E97685X			
FB-01-010917	WATER	E98917-2X	X
231-B12-0-0.5	SOIL	E98917-20X	X
231-B10-0-0.5	SOIL	E98917-21X	X
N220X			
231-B1-0-0.5	SOIL	N220-1X	X
FB-01-051001	WATER	N220-2X	X

R2-0004364

Introduction

No. of Samples/Matrix:	6 Soil samples and 4 water samples
Sample Delivery Groups (SDG):	E97554X, E97941X, E98917X & N220
Sampling Date:	August 24, 31,September 18 & October 5, 2001
Analyses:	Dioxin
Analytical Method:	EPA Method 1613A

Summary of Data Validation:

The adherence of laboratory analytical performance to the above method was evaluated during the data validation process. The USEPA Region II Data Validation SOP No. 25 for EPA Method 1613 was used as the guideline for data qualifications.

E97554X: Results are acceptable.

E97914X: Results are acceptable.

SDG E98917X: Results are acceptable.

SDG N220: Results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 10.0 and a detailed description in the report.

R2-0004365

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CALIBRATION VERIFICATION 1

3.0 BLANKS QUALITY CONTROL **1**

3.1 FIELD BLANK (FB) 1
3.2 METHOD BLANK (MB) 1

4.0 ACCURACY AND PRECISION DATA **1**

4.1 PRECISION RECOVERY STANDARD 1
4.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
4.3 BLANK SPIKES 1

5.0 INTERNAL STANDARD (IS) **1**

6.0 TARGET COMPOUND IDENTIFICATION **1**

7.0 COMPOUND QUANTITATION **1**

8.0 FIELD DUPLICATES (FD) **1**

9.0 OVERALL ASSESSMENT OF DATA **2**

10.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Calibration Verification
All is acceptable.

3.0 Blanks Quality Control

3.1 Field Blank (FB)
Field blank results are acceptable.

3.2 Method Blank (MB)
Method blank results are acceptable.

4.0 Accuracy and Precision Data

4.1 Precision Recovery Standard
Recoveries are acceptable.

4.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
None was performed.

4.3 Blank Spikes
All is acceptable.

5.0 Internal Standard (IS)
Results are acceptable.

6.0 Target Compound Identification
All target compound identification is acceptable.

7.0 Compound Quantitation
All is acceptable.

8.0 Field Duplicates (FD)
A Field duplicates was submitted for E97554X. All RPDs are acceptable.

9.0 Overall Assessment of Data

The data as presented are usable.

R2-0004368

10.0 Data Qualification Summary Table

LCP Superfund Site

No data were qualified.

R2-0004369

RECEIVED
FEB - 1 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

UAD

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97631
Sampling Dates: August 27, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

January 25, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
LP-3-0-0.5	SOIL	E97631-1	X	X	X	X**	X
LP-1-0-0.5	SOIL	E97631-2	X	X	X	X**	X
LP-5-0-0.5	SOIL	E97631-3	X	X	X	X**	X
LP-11-0-0.5	SOIL	E97631-4	X	X	X	X**	X
FB-01-010827	SOIL	E97631-5	X	X	X	X	X
LP-10-0-0.5	SOIL	E97631-6	X	X	X	X**	X
LP-10-0.5-2	SOIL	E97631-7	X	X**	X	X**	X
LP-16-0-0.5	SOIL	E97631-8	X	X	X	X**	X
LP-16-0.5-2	SOIL	E97631-9	X	X	X*	X**	X
LP-12-0-0.5	SOIL	E97631-10	X	X	X	X**	X
LP-12-4-6	SOIL	E97631-11	X	X	X	X**	X
LP-6-0-0.5	SOIL	E97631-12	X	X	X	X**	X

*reanalyzed, **dilution

R2-0004371

Introduction

No. of Samples/Matrix:	12 Soil samples
Sample Delivery Groups (SDG):	E97631
Sampling Date:	August 27, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Some methylene chloride results were qualified as non-detects at CRDL since their method blank reported methylene chloride contamination.

SVOA: Results are acceptable.

Pesticide: 4,4-DDT in samples LP-5-0-0.5 and LP-11-0-0.5 was qualified "J" to indicate the results are estimated due to elevated surrogate recoveries.

PCB: Aroclor-1254 in sample LP-10-0-0.5 was qualified "J" to indicate the result is estimated due to elevated surrogate recoveries.

Metals: Antimony results were qualified as estimated "UJ" due to low matrix spike recoveries. Zinc results were rejected "R" due to matrix interference. Some potassium results were qualified as estimated "J" due to serial dilution results being out of control. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004372

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not analyzed with this SDG.

4.2 Field Blank (FB)

Field blank reported no contamination.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination and this resulted in detected methylene chloride results being qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for sample several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for sample several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: All antimony results were qualified as estimated "UJ" due to low matrix spike recovery and all zinc results were rejected "R" due to matrix interference.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Some potassium results were qualified as estimated "J" due to SD recoveries that were outside QC limits.

6.1 Internal Standards (IS)

IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs are acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

There are no field duplicates associated with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of zinc metal results which are not usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
LP-3-0-0.5	Methylene chloride	18.3U	4.2
LP-1-0-0.5	Methylene chloride	7.8U	4.2
LP-5-0-0.5	Methylene chloride	6.2U	4.2
LP-11-0-0.5	Methylene chloride	12.3U	4.2
LP-10-0-0.5	Methylene chloride	8.3U	4.2
LP-10-0.5-2	Methylene chloride	5.1U	4.2
LP-16-0-0.5	Methylene chloride	7.3U	4.2
LP-16-0.5-2	Methylene chloride	14.3U	4.2
LP-12-0-0.5	Methylene chloride	8.3U	4.2
LP-12-4-6	Methylene chloride	10.8U	4.2
LP-6-0-0.5	Methylene chloride	9.9U	4.2

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
LP-5-0-0.5	4,4'-DDT	J	5.1
LP-11-0-0.5	4,4'-DDT	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
LP-10-0-0.5	Aroclor-1254	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples	Antimony	UJ	5.2
	Zinc	R	5.2
LP-5-0-0.5, LP-11-0-0.5,LP-10-0-0.5, LP-10-0.5-2, LP-16-0-0.5, LP-6-0-0.5	Potassium	J	6.0

FILE COPY
Job #: 21405 LCP
Folder: Gen Data

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E97685
Sampling Dates: August 27 & 28, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

January 29, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-01010828	WATER	E97685-1	X	X	X	X	X
LP-6-4-6	SOIL	E97685-2	X	X*	X**	X	X
LP-2-0-0.5	SOIL	E97685-3	X	X**	X**	X	X
LP-2-0.5-2	SOIL	E97685-4	X	X**	X**	X	X
CF-2-0-0.5	SOIL	E97685-5	X	X	X**	X	X
CF-3-0-0.5	SOIL	E97685-6	X	X	X**	X	X
CF-3-0.5-2	SOIL	E97685-7	X	X	X**	X	X
CF-4-0-0.5	SOIL	E97685-8	X	X	X**	X	X
CF-7-0-0.5	SOIL	E97685-9	X	X	X**	X	X
CF-7-4-6	SOIL	E97685-10	X	X**	X**	X	X
DUP-1-010828	SOIL	E97685-11	X	X	X**	X	X
CF-6-0-0.5	SOIL	E97685-12	X	X	X**	X	X
CF-5-0-0.5	SOIL	E97685-13	X	X	X**	X	X
CF-5-4-6	SOIL	E97685-14	X	X	X**	X	X
CF-8-0-0.5	SOIL	E97685-15	X	X	X**	X	X

*reanalyzed, **dilution

R2-0004378

Introduction

No. of Samples/Matrix:	14 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E97685
Sampling Date:	August 27 & 28, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL. VOA TIC for naphthalene was rejected "R" in sample LP-2-0.5-2 since it is a SVOA target compound and thus cannot be reported as a VOA TIC.

SVOA: SVOA: IS Perylene-d12 area counts were below the required QC limits for samples LP-6-4-6, LP-2-0-0.5 and CF-7-4-6. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: The percent difference exceeded the 20% QC criteria for 4,4'-DDT, endosulfan II and methoxychlor. All results for these compounds in affected samples were qualified as estimated "UJ/J." Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

Metals: Antimony, aluminum, barium and iron results were qualified as estimated "UJ/J" due to low matrix spike recoveries. All detected potassium results were qualified as estimated "J" due to serial dilution exceedance. All cyanide results are acceptable.

R2-0004379

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004380

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

Pesticide: The percent difference exceeded the 20% QC criteria for 4,4'-DDT, endosulfan II and methoxychlor. All results for these compounds in affected samples were qualified as estimated "UJ/J."

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

There was no trip blank present in this SDG.

4.2 Field Blank (FB)

Field blank reported no contamination

4.3 Method Blank (MB)

Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

PCB: Recoveries for several samples were above the required QC limits. All detected compounds for these samples were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony, aluminum, barium and iron results were qualified as estimated "UJ/J" due to matrix spike recoveries that were outside QC limits.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Detected potassium results were qualified as estimated "J" due to serial dilution exceedance.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples LP-6-4-6, LP-2-0-0.5 and CF-7-4-6. Corresponding target compounds for this internal standard in these samples were qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA TICs for naphthalene was rejected "R" in sample LP-2-0.5-2 since it is a SVOA target compound and thus cannot be reported as a VOA TIC.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A blind field duplicate was included with this SDG. All RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of the one naphthalene TIC result qualified with the "R" qualifier.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
LP-6-4-6	Methylene chloride	9.8U	4.3
LP-2-0-0.5	Methylene chloride	8.1U	4.3
LP-2-0.5-2	Methylene chloride	10.4U	4.3
	Naphthalene	R	8.0
CF-2-0-0.5	Methylene chloride	6.5U	4.3
CF-3-0-0.5	Methylene chloride	10.1U	4.3
CF-3-0.5-2	Methylene chloride	12.3U	4.3
CF-4-0-0.5	Methylene chloride	6.2U	4.3
CF-7-0-0.5	Methylene chloride	6.6U	4.3
CF-7-4-6	Methylene chloride	6.0U	4.3
DUP-1-010828	Methylene chloride	5.6U	4.3
CF-6-0-0.5	Methylene chloride	5.2U	4.3
CF-5-0-0.5	Methylene chloride	6.2U	4.3
CF-5-4-6	Methylene chloride	9.1U	4.3
CF-8-0-0.5	Methylene chloride	5.5U	4.3

svoa

Sample Identification	Compound	Qualifier	Section Reference
LP-6-4-6, LP-2-0-0.5	Benzo (a) anthracene, benzo (b) fluoranthene, benzo (k) fluoranthene, benzo (g,h,i) perylene, benzo (a) pyrene Dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd)pyrene	UJ	6.1
CF-7-4-6	Benzo (a) anthracene, benzo (b) fluoranthene, benzo (k) fluoranthene, benzo (g,h,i) perylene, benzo (a) pyrene, indeno (1,2,3-cd)pyrene	J	6.1
	Dibenzo (a,h) anthracene, di-n-octyl phthalate	UJ	6.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
CF-3-0.5-2	Methoxychlor, 4,4'-DDT, endosulfan II	UJ	2.2
CF-4-0-0.5, CF-7-0-0.5, CF-7-4-6	Endosulfan II, methoxychlor	UJ	2.2
	4,4'-DDT	J	2.2
LP-6-4-6, LP-2-0-0.5, CF-2-0-0.5, CF-3-0-0.5	4,4'-DDT	J	2.2
LP-2-0.5-2	4,4'-DDT	UJ	2.2
CF-4-0-0.5, CF-7-0-0.5	4,4'-DDE	J	5.1
CF-7-4-6	Alpha chlordane, gamma chlordane	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
LP-2-0-0.5, LP-0.5-2, CF-4-0-0.5, CF-7-4-6, CF-8-0-0.5	Aroclor-1254	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
LP-2-0.5-2 CF-2-0-0.5 CF-3-0-0.5 CF-3-0.5-2 CF-4-0-0.5 DUP-1-010828 CF-6-0-0.5 CF-5-0-0.5 CF-5-4-6 CF-8-0-0.5	Antimony	UJ	5.2
	Barium, aluminum, copper, potasssium	J	5.2/6.0
CF-7-0-0.5, CF-7-4-6	Antimony, aluminum, barium, iron, potassium	J	5.2/6.0
LP-6-4-6, LP-2-0-0.5	Antimony	UJ	5.2
	Barium, aluminum, iron	J	5.2

R2-0004385

RECEIVED
FEB 28 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

UHD

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Dioxin Analyses

26608 26609 26801 26802 26801 26844 26845 26846 26847 27018 27019

SDG Nos. E97259X, E97444X, E97631X, E97685X & E99129 23423 23424

Sampling Dates: August 21, 22, 27, 28 & September 20, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 20, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	Dioxin 1613A
E97259X			
EC-3	SOIL	E97259-3X	X
EC-7	SOIL	E97259-7X	X
E97631X			
LP-1-0-0.5	SOIL	E97631-2X	X
FB-01-10827	WATER	E99573-5X	X
LP-10-0-0.5	SOIL	E99573-6X	X
LP-16-0-0.5	SOIL	E99573-8X	X
LP-6-0-0.5	SOIL	E99573-12X	X
E97685X			
FB-01-010828	WATER	E99573-1X	X
CF-5-0-0.5	SOIL	E99573-3X	X
E97444X			
SC-3	SOIL	E97444-16X	X
FIELD BLANK-1	WATER	E97444-17X	X
FIELD BLANK-2	WATER	E97444-18X	X
E99129X			
FB-01-010920	WATER	E99129-1X	X
BSL-1-0-1	SOIL	E99129-2X	X

*reanalyzed, **dilution

R2-0004387

Introduction

No. of Samples/Matrix:	9 Soil samples and 5 water samples
Sample Delivery Groups (SDG):	E97259X, E97444X, E97631X, E97685X & E99129X
Sampling Date:	September 20, 21, 27, 28 & September 20, 2001
Analyses:	Dioxin
Analytical Method:	EPA Method 1613A

Summary of Data Validation:

The adherence of laboratory analytical performance to the above method was evaluated during the data validation process. The USEPA Region II Data Validation SOP No. 25 for EPA Method 1613 was used as the guideline for data qualifications.

E97444X: The ongoing precision standard (OPR) recovery was outside QC limits for some compounds. Results for those compounds were qualified as estimated "J" due to this anomaly.

E97631X: 2,3,7,8-TCDF and OCDD in samples LP-16-0-0.5 and LP-10-0-0.5 were rejected since the compound exceeded the calibration range.

SDG E97685X: Sample temperature were 12.1°C which, is above the required 4 °C. Based on technical information and professional judgement all sample results were qualified as estimated "J" since the integrity of the samples may have been compromised.

SDG E97631: Sample temperature were 24.2°C which, is above the required 4 °C. Based on technical information and professional judgement all sample results were qualified as estimated "J" since the integrity of the samples may have been compromised

A data validation summary table of all qualified compounds is presented in Section 10.0 and a detailed description in the report.

R2-0004388

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CALIBRATION VERIFICATION 1

3.0 BLANKS QUALITY CONTROL **1**

3.1 FIELD BLANK (FB) 1
3.2 METHOD BLANK (MB) 1

4.0 ACCURACY AND PRECISION DATA **1**

4.1 PRECISION RECOVERY STANDARD 1
4.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
4.3 BLANK SPIKES 1

5.0 INTERNAL STANDARD (IS) **1**

6.0 TARGET COMPOUND IDENTIFICATION **1**

7.0 COMPOUND QUANTITATION **1**

8.0 FIELD DUPLICATES (FD) **2**

9.0 OVERALL ASSESSMENT OF DATA **2**

10.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Calibration Verification
All is acceptable.

3.0 Blanks Quality Control

3.1 Field Blank (FB)
Field blank results are acceptable.

3.2 Method Blank (MB)
Method blank results are acceptable.

4.0 Accuracy and Precision Data

4.1 Precision Recovery Standard
E97444X: The ongoing precision standard (OPR) recovery was outside QC limits for some compounds. Results for those compounds were qualified as estimated "J" due to this anomaly.

4.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
None was performed.

4.3 Blank Spikes
All is acceptable.

5.0 Internal Standard (IS)
Results are acceptable.

6.0 Target Compound Identification
All target compound identification is acceptable.

7.0 Compound Quantitation
E97631X: 2,3,7,8-TCDF and OCDD in samples LP-16-0-0.5 and LP-10-0-0.5 respectively were rejected since the compound exceeded the calibration range.

8.0 Field Duplicates (FD)

Field duplicates were not submitted.

9.0 Overall Assessment of Data

The data as presented are usable with the exception of the results qualified with the "R" qualifier.

SDG E97685: Sample temperature were 12.1°C which, is above the required 4 °C. Based on technical information and professional judgement all sample results were qualified as estimated "J" since the integrity of the samples may have been compromised.

SDG E97631: Sample temperature were 24.2°C which, is above the required 4 °C. Based on technical information and professional judgement all sample results were qualified as estimated "J" since the integrity of the samples may have been compromised.

10.0 Data Qualification Summary Table

LCP Superfund Site

E97444X

Sample Identification	Compound	Qualifier	Section Reference
SC-3	1, 2, 3, 4, 7, 8-HxCDF, 1, 2, 3, 7, 8, 9-HxcCDF, 1, 2, 3, 4, 6, 7, 8-HpCDF, 1,2,3,4,7,8,9-HpCDF	J	4.1

E97631X

Sample Identification	Compound	Qualifier	Section Reference
LP-1-0-0.5	All compounds	J	9.0
FB-01-010827	All copoounds	J	9.0
LP-10-0-0.5	OCDD	R	7.0
	All other compounds	J	9.0
LP-16-0-0.5	2,3,7,8-TCDF	R	7.0
	All copoounds	J	9.0
LP-6-0-0.5	All copoounds	J	9.0

E97685X

Sample Identification	Compound	Qualifier	Section Reference
FB0-01-010828	All compounds	J	9.0
CF-5-0-0.5	All compounds	J	9.0

R2-0004392

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E99805
Sampling Dates: October 1, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 11, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
240-1-8-10	SOIL	E99805-1	X	X	X**	X	X
FB-01	WATER	E99805-2	X	X	X	X	X
5K-B1-0-0.5	SOIL	E99805-3	X	X	X**	X	X
5K-B4-0-0.5	SOIL	E99805-4	X	X*	X**	X**	X
5K-B4-4-6	SOIL	E99805-5	X	X*	X**	X	X

*reanalyzed, **dilution

R2-0004394

Introduction

No. of Samples/Matrix:	4 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E99805
Sampling Date:	October 1, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL. Field blank reported acetone contamination. All affected detected acetone results were qualified as non-detects at CRDL. Reported 1, 3-dichlorobenzene, 1, 4-dichlorobenzene, 1, 2-dichlorobenzene, 1, 2, 4-trichlorobenzene and naphthalene in sample 5K-B4-4-6 and naphthalene in sample 5K-B1-0-0.5 were rejected "R" since they are SVOA target compounds and therefore cannot be reported as VOA TICs.

SVOA: IS Perylene-d12 area counts were below the required QC limits for 5K-B4-0-0.5 Corresponding target compounds for this internal standard in this sample was qualified "UJ" to indicate the results are estimated due to this anomaly.

Pesticide: All results are acceptable.

PCB: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

Metals and Cyanide: All results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004395

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

No trip blank was reported.

4.2 Field Blank (FB)

VOA: Field blank reported acetone contamination. All affected detected acetone results were qualified as non-detects at CRDL.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

PCB: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

All is acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

SVOA: IS Perylene-d12 area counts were below the required QC limits for 5K-B4-0-0.5 Corresponding target compounds for this internal standard in this sample was qualified "UJ" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: Reported 1, 3-dichlorobenzene, 1,4-dichlorobenzene, 1, 2-dichlorobenzene, 1, 2, 4-trichlorobenzene and naphthalene in sample 5K-B4-4-6 and naphthalene in sample 5K-B1-0-0.5 were rejected "R" since they are SVOA target compounds and therefore cannot be reported as VOA TICs.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not reported with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of the TICs with the "R" qualifiers.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
240-1-8-10	Methylene chloride	6.0U	4.3
5K-B1-0-0.5	Methylene chloride	5.4U	4.3
	Naphthalene	R	8.0
5K-B4-0-0.5	Methylene chloride	6.5U	4.3
	Acetone	399U	4.2
5K-B4-4-6	1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, naphthalene	R	8.0

SVOA

Sample Identification	Compound	Qualifier	Section Reference
5K-B4-0-0.5	Benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (g,h,i) perylene, benzo (k) fluoranthene, dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd) pyrene	UJ	6.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
5K-B1-0-0.5	Aroclor-1254	J	5.1
5K-B4-0-0.5	Aroclor-1254	J	5.1

R2-0004399

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E99913
Sampling Dates: October 2, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 11, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
230-B1-0.5	SOIL	E99913-1	X**	X	X**	X	X
230-B1-4-6	SOIL	E99913-2	X	X*	X**	X	X
HF-B3-0-.5	SOIL	E99913-3	X**	X*	X**	X	X
HF-B3-8-10	SOIL	E99913-4	X**	X	X**	X*	X
FB-01-021001	WATER	E99913-5	X	X	X	X	X
BT-B5-0-.5	SOIL	E99913-6	X	X*	X**	X*	X
DUP-01-021001	SOIL	E99913-7	X	X*	X**	X*	X

*reanalyzed, **dilution

R2-0004401

Introduction

No. of Samples/Matrix:	6 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E99913
Sampling Date:	October 2, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL. Field blank reported acetone contamination. All affected detected acetone results were qualified as non-detects at CRDL.

SVOA: IS Perylene-d12 area counts were below the required QC limits for samples BT-B5-0-.5. Corresponding target compounds for this internal standard in this sample was qualified "UJ/J" to indicate the results are estimated due to this anomaly.

Pesticide: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

PCB: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

Metals: Antimony results were qualified as estimated "UJ" due to low matrix spike recoveries. Aluminum, copper, lead and potassium results were qualified as estimated "J" due to matrix spike recovery exceedance. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004402

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

Trip blank reported no contamination.

4.2 Field Blank (FB)

VOA: Field blank reported acetone contamination. All affected detected acetone results were qualified as non-detects at CRDL.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

PCB: Recoveries for several samples exceeded the required QC limits and thus all detected results in affected samples were qualified as estimated "J."

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony results were qualified as estimated "UJ" due to low matrix spike recoveries. Aluminum, copper, lead and potassium results were qualified as estimated "J" due to matrix spike recovery exceedance.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

IS Perylene-d12 area counts were below the required QC limits for several samples. However, corresponding target compounds for this internal standard in sample BT-B5-0-.5 only was qualified "UJ/J" to indicate the results are estimated due to this anomaly.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: Reported 1,2-dichlorobenzene was rejected "R" in sample 230-B1-4-6 since it is a SVOA target compound and therefore cannot be reported as a VOA TIC.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was reported. All RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of the TIC with the "R" qualifier.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
230-B1-0.5	Methylene chloride	5.4U	4.3
	Acetone	2570U*	4.2
230-B1-4-6	1,2-dichlorobenzene	R	8.0
HF-B3-0-.5	Methylene chloride	6.1U	4.3
	Acetone	1470U*	4.2
HF-B3-8-10	Methylene chloride	6.8U	4.3
BT-B5-0-.5	Methylene chloride	5.4U	4.3
	Acetone	122U	4.2
DUP-01-021001	Methylene chloride	5.4U	4.3
	Acetone	95.9U	4.2

*62X dilution

SVOA

Sample Identification	Compound	Qualifier	Section Reference
BT-B5-0-.5	Benzo (b) fluoranthene	J	6.1
	Benzo (g,h,i) perylene, dibenzo (a,h) anthracene, di-n-octyl phthalate, indeno (1,2,3-cd) pyrene	UJ	6.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
230-B1-0.5	4,4'-DDD, 4,4'-DDE, beta BHC	J	5.1
BT-B5-0-.5	4,4'-DDE, 4,4'-DDD	J	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
HF-B3-8-10	Aroclor-1254	J	5.1
BT-B5-0-.5	Aroclor-1254	J	5.1
DUP-01-021001	Aroclor-1254	J	5.1

R2-0004406

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples except FB-01-021001	Antimony	UJ	5.2
	Aluminum, copper, lead and potassium	J	5.2

R2-0004407

RECEIVED
FEB 25 2002
BROWN AND CALDWELL

FILE COPY
Job #: 21405
Folder: Data Validation

CAD

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. E99979
Sampling Dates: October 03, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

Februrary 17, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-031001	WATER	E99979-1	X*	X	X	X	X
DC-B12-0-0.5	SOIL	E99979-2	X	X*	X**	X**	X
DC-B12-2-4	WATER	E99979-3	X*	X	X**	X	X
DSP-1-0-0.5	SOIL	E99979-4	X	X	X**	X**	X

*reanalyzed, **dilution

R2-0004409

Introduction

No. of Samples/Matrix:	3 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	E99979
Sampling Date:	October 03, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL. Naphthalene was rejected "R" in sample DC-B12-0-0.5 since it is a SVOA target compound and thus cannot be reported as VOA TIC

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals: Metals: Antimony, copper, lead and potassium results were qualified as estimated "UJ/J" due to matrix spike recoveries that were outside QC limits. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004410

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

There was no trip blank present in this SDG.

4.2 Field Blank (FB)

Field blank reported no contamination.

4.3 Method Blank (MB)

Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Surrogate recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Antimony, copper, lead and potassium results were qualified as estimated "UJ/J" due to matrix spike recoveries that were outside QC limits.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

R2-0004412

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: Naphthalene was rejected "R" in sample DC-B12-0-0.5 since it is a SVOA target compound and thus cannot be reported as VOA TIC.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of the one naphthalene TIC result qualified with the "R" qualifier.

R2-0004413

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
DC-B12-0-0.5	Methylene chloride	9.8U	4.3
	Naphthalene	R	11.0
DC-B12-2-4	Methylene chloride	14U	4.3
231-B4-6-8	Naphthalene	R	8.0
DSP-1-0-0.5	Methylene chloride	7.2U	4.3

Metals

Sample Identification	Compound	Qualifier	Section Reference
DC-B12-0-0.5, DC-B12-2-4, DSP-1-0-0.5	Aluminum	R	5.2
	Antimony	UJ	5.2
	Copper, lead, potassium	J	5.2/6.0

R2-0004414

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N220
Sampling Dates: October 05, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 19, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
2-B1-B1-0-0.5	SOIL	N220-1	X	X	X**	X**	X
FB-01-031001	WATER	N220-2	X	X	X	X	X

*reanalyzed, **dilution

R2-0004416

Introduction

No. of Samples/Matrix:	1 Soil sample and 1 water sample
Sample Delivery Groups (SDG):	N220
Sampling Date:	October 05, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Benzene and toluene in sample 231-B1-0-0.5 were reported as non-detects by the laboratory. The validator found these to be detected compounds and thus they are corrected on the Form 1.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: Recovery was outside the required QC limits. This resulted in aroclor-1254 in sample 231-B1-0-0.5 being qualified "J" to indicate the result is estimated due to this anomaly.

Metals: All results are acceptable. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004417

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

There was no trip blank present in this SDG.

4.2 Field Blank (FB)

Field blank reported no contamination.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

PCB: Recovery was outside the required QC limits. This resulted in aroclor-1254 in sample 231-B1-0-0.5 being qualified "J" to indicate the result is estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

R2-0004419

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

All TIC identification is acceptable.

9.0 Compound Quantitation

VOA: Benzene and toluene in sample 231-B1-0-0.5 were reported as non-detects by the laboratory. The validator found these to be detected compounds and thus they are corrected on the Form 1.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Revised Conc.	Section Reference
231-B1-0-0.5	Benzene		0.78	9.0
	Toluene		0.65	9.0

PCB

Sample Identification	Compound	Qualifier	Section Reference
231-B1-0-0.5	Aroclor-1254	J	5.1

R2-0004421

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N698
Sampling Dates: October 12, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 11, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
RR-9-0-.5	SOIL	N698-1	X	X	X**	X	X
RR-10-0-.5	SOIL	N698-2	X	X	X**	X	X
RR-11-0-.5	SOIL	N698-3	X	X*	X**	X	X
RR-12-0-.5	SOIL	N698-4	X	X	X**	X	X
DUP-01-121001	SOIL	N698-5	X	X	X**	X	X
FB-01-121001	WATER	N698-6	X	X	X	X	X

*reanalyzed, **dilution

R2-0004423

Introduction

No. of Samples/Matrix:	5 Soil samples and 1 water sample
Sample Delivery Groups (SDG):	N698
Sampling Date:	October 12, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

SVOA: All is acceptable.

Pesticide: Recovery for sample RR-10-0-.5 was below the required QC limits and thus all results in affected sample were qualified as estimated "UJ/J." Recovery in sample RR-11-0-.5 was above the required QC limits. All detected results in this sample were qualified as estimated "J."

PCB: All results are acceptable.

Metals: All antimony results were qualified as estimated "J" due to low matrix spike recovery. All aluminum and manganese results were qualified as estimated "J" due to high matrix spike recovery and all calcium and magnesium results were rejected "R" since their recoveries exceeded 200%. All cyanide results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004424

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

No trip blank was reported.

4.2 Field Blank (FB)

VOA: Field blank reported no contamination.

4.3 Method Blank (MB)

VOA: Method blanks reported methylene chloride contamination. Affected detected sample results were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Recovery for sample RR-10-0-.5 was below the required QC limits and thus all results in affected sample were qualified as estimated "UJ/J." Recovery in sample RR-11-0-.5 was above the required QC limits. All detected results in this sample were qualified as estimated "J."

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: All antimony results were qualified as estimated "J" due to low matrix spike recovery. All aluminum and manganese results were qualified as estimated "J" due to high matrix spike recovery and all calcium and magnesium results were rejected "R" since their recoveries exceeded 200%.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

All TIC identification is acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was reported with this SDG. All RPDs are acceptable.

11.0 Overall Assessment of Data

Some samples were reanalyzed due to surrogate failures, and some were diluted due to calibration range exceedance (see Table 1.0). The data as presented are usable with the exception of the results with the "R" qualifiers.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
RR-9-0-.5	Methylene chloride	16.5U	4.3
RR-11-0-.5	Methylene chloride	6.3U	4.3
RR-12-0-.5	Methylene chloride	7.2U	4.3

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
RR-10-0-.5	4,4-DDE, 4,4'-DDT	J	5.1
	All other compounds	UJ	5.1
RR-11-0-.5	4,4-DDE, 4,4'-DDT, methoxychlor	J	5.1

Metals

Sample Identification	Compound	Qualifier	Section Reference
RR-9-0-.5, R-11-0-.5, RR-12-0-.5, DUP-01-121001	Antimony	UJ	5.1
	Aluminum, manganese	J	5.1
	Calcium, magnesium	R	5.1
RR-10-0-.5	Antimony, aluminum, manganese	J	5.1
	Calcium, magnesium	R	5.1

RECEIVED
MAR 1 - 2002
BROWN AND CALDWELL

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N3142
Sampling Dates: November 19, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 24, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
DSP-1-406	SOIL	N3142-1	X**	X	X	X	X
FB-01-191101	WATER	N3142-2	X	X	X	X	X

*reanalyzed, **dilution

R2-0004430

Introduction

No. of Samples/Matrix:	1 Soil sample and 1 water sample
Sample Delivery Groups (SDG):	N3142
Sampling Date:	November 19, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone contamination. The affected sample result was qualified as a non-detect at CRDL.

SVOA: All results are acceptable.

Pesticide: All results are acceptable

PCB: All results are acceptable.

Metals: Field blank reported calcium, manganese, mercury and zinc contamination which resulted in these sample results being rejected in the affected sample. Aluminum and potassium results were rejected "R" due to MS recoveries that exceeded the 200% QC criteria. Antimony results were qualified as estimated "J" due to MS recovery exceedance.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004431

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

There was no trip blank present in this SDG.

4.2 Field Blank (FB)

VOA: Field blank reported acetone contamination. The affected sample result was qualified as a non-detect at CRDL.

SVOA: Field blank reported bis (2-ethyl hexyl phthalate) contamination. There was no affected sample result thus, no qualification was necessary.

Metals: Field blank reported calcium, manganese, mercury and zinc contamination which resulted in these sample results being rejected in the affected sample.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Surrogate recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Metals: Aluminum and potassium results were rejected "R" due to MS recoveries that exceeded the 200% QC criteria. Antimony results were qualified as estimated "J" due to MS recovery exceedance.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs identification is acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of the results flagged with the "R" qualifier.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
DSP-1-406	Acetone	350U	4.2

Metals

Sample Identification	Compound	Qualifier	Section Reference
DSP-1-406	Aluminum, manganese, potassium, zinc, calcium, mercury	R	5.2/4.2
	Antimony	UJ	5.2

R2-0004435

RECEIVED
MAR 1 - 2002
BROWN AND CALDWELL

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N3215
Sampling Dates: November 20, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

February 24, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
SED6 (0-6")	SOIL	N3215-1	X	X	X	X	X
SED6 (6-12")	SOIL	N3215-2	X	X	X	X	X
SED6 (12-18")	SOIL	N3215-3	X	X	X	X	X
SW-6	WATER	N3215-4	X	X	X	X	X
EQBL	WATER	N3215-5	X	X	X	X	X

R2-0004437

Introduction

No. of Samples/Matrix:	3 Soil samples and 2 water sample
Sample Delivery Groups (SDG):	N3215
Sampling Date:	November 20, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria.

SVOA: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria.

Pesticide: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria.

PCB: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria.

Metals & Cyanide: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria.

TOC: All soil sample results were qualified as estimated due to percent solids that were below the required 50% criteria

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004438

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
There was no trip blank present in this SDG.

4.2 Field Blank (FB)
Field blank reported no contamination.

4.3 Method Blank (MB)
Method blanks reported methylene chloride contamination but samples were already qualified as estimated due to percent solids that were below the required 50% criteria.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
Surrogate recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)
All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TICs identification is acceptable.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable. All soil sample results for all samples were qualified as estimated "J" due to percent solids that were below the required 50% criteria.

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N4844
Sampling Dates: December 17, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
MW-20	WATER	N4844-1	X	X	X	X	X
MW-17	WATER	N4844-2	X	X	X	X	X
MW-8	WATER	N4844-3	X	X	X	X	X
DUP011217	WATER	N4844-4	X	X	X	X	X

R2-0004443

Introduction

No. of Samples/Matrix:	4 water samples
Sample Delivery Groups (SDG):	N4844
Sampling Date:	December 17, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: All results are acceptable.

SVOA: All results are acceptable.

Pesticide: CCAL results for heptachlor exceeded the required 15% QC limits, this resulted in all heptachlor results being qualified as estimated "J."

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004444

Table of Contents

1.0 TECHNICAL HOLDING TIME 1

2.0 CALIBRATION 1

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD 1

4.0 BLANKS QUALITY CONTROL 1

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA 1

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) 1

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION 2

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) 2

9.0 COMPOUND QUANTITATION 2

10.0 FIELD DUPLICATES (FD) 2

11.0 OVERALL ASSESSMENT OF DATA 2

12.0 DATA QUALIFICATION SUMMARY TABLE 3

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
Pesticide: CCAL results for heptachlor exceeded the required 15% QC limits, this resulted in all heptachlor results being qualified as estimated "J."

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not included with this SDG.

4.2 Field Blank (FB)
A field blank was not included with this SDG.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)
All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

The laboratory correctly reported all TICs.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was included with this SDG. All RPDs are acceptable.

11.0 Overall Assessment of Data

The data as presented are usable.

R2-0004447

12.0 Data Qualification Summary Table

LCP Superfund Site

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
All samples	Heptachlor	UJ	2.2

R2-0004448

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N4938
Sampling Dates: December 18, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 17, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
MW-9	WATER	N4938-1	X	X	X	X	X
FB011217	WATER	N4938-2	X	X	X	X	X
MW-13	WATER	N4938-3	X	X	X	X	X
MW-10	WATER	N4938-4	X	X	X	X	X
TB011217	WATER	N4938-5	X	-	-	-	-
FB011218	WATER	N4938-6	X	X	X	X	X
MW-11	WATER	N4938-7	X	X	X	X	X
MW-15	WATER	N4938-8	X	-	-	-	-

R2-0004450

Introduction

No. of Samples/Matrix:	8 water samples
Sample Delivery Groups (SDG):	N4938
Sampling Date:	December 18, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Trip blank reported acetone contamination. Sample MW-13 was impacted and the acetone result was qualified as non-detect at CRDL. Field blank reported acetone contamination. Sample MW-9 was impacted and the acetone result was qualified as non-detect at CRDL

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004451

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

VOA: Trip blank reported acetone contamination. Sample MW-13 was impacted and the acetone result was qualified as a non-detect at CRDL.

4.2 Field Blank (FB)

VOA: Field blank reported acetone contamination. Sample MW-9 was impacted and the acetone result was qualified as a non-detect at CRDL.

Metals: Field blank reported zinc contamination but no samples were qualified due to this anomaly.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

The laboratory correctly reported all TICs.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

There were no field duplicates presented in this SDG.

11.0 Overall Assessment of Data

The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
MW-9	Acetone	1710U	4.2
MW-13	Acetone	19.3U	4.1

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N5011
Sampling Dates: December 18-19, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
MW-15	WATER	N5011-1	-	X	X	X	X
MW-15	WATER	N5011-2	-	-	X	X	X
MW-14	WATER	N5011-3	X	X	X	X	X
MW-6	WATER	N5011-4	X	X	X	X	X
MW-7	WATER	N5011-5	X	X	X	X	X
MW-12	WATER	N5011-6	X	X	X	X	X
FB011219	WATER	N5011-7	X	X	X	X	X
TB011219	WATER	N5011-8	X	-	-	-	-
MW-19	WATER	N5011-9	X	X	X	X	X
MW-18	WATER	N5011-10	X	X	X	X	X

R2-0004457

Introduction

No. of Samples/Matrix:	10 water samples
Sample Delivery Groups (SDG):	N5011
Sampling Date:	December 18-19, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone and carbon disulfide contamination. All affected detected sample results for these compounds were qualified as non-detects at CRDL. TIC results for naphthalene, 1,2-dichlorobenzene, 1,3-dichlorobenzene in sample MW-12; naphthalene in samples MW-19 and MW-18 were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as TICs.

SVOA: All sample results are acceptable.

Pesticide: Endrin ketone percent relative standard deviation exceeded the required 20% QC limits. All endrin ketone results were qualified "UJ" to indicate the results are estimated. Heptachlor percent difference exceed the 15% QC limits which resulted in heptachlor results in samples MW-15 (N5011-1), MW-15 (N5011-2) and MW-14 being qualified "UJ" to indicate the results are estimated due to this anomaly. Surrogate recoveries for samples MW-12 and MW-19 were below the required QC limits. All non-detected sample results for these samples were qualified "UJ" to indicate the results are estimated due to this anomaly.

PCB: Surrogate recovery for sample MW-18 was below the required QC limits. All compounds for this sample were qualified as "UJ" to indicate the results are estimated due to this anomaly.

Metals & Cyanide: Field blank reported zinc contamination. This resulted in zinc result in samples MW-12 and MW-19 being rejected. The MS %R for cyanide was below the required QC limits and this resulted in cyanide results in all samples except MW-18 being

R2-0004458

qualified "UJ" to indicate the results are estimated

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004459

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 2
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

PEST: Endrin ketone percent relative standard deviation exceeded the required 20% QC limits. All endrin ketone results were qualified "UJ" to indicate the results are estimated.

2.2 Continuing Calibration (CCAL)

PEST: Heptachlor percent difference exceed the 15% QC limits which resulted in heptachlor results in samples MW-15 (N5011-1), MW-15 (N5011-2) and MW-14 being qualified "UJ" to indicate the results are estimated due to this anomaly.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

The trip blank reported no contamination.

4.2 Field Blank (FB)

VOA: Field blank reported acetone and carbon disulfide contamination at 228ug/L and 9.3ug/L respectively. All affected detected sample results for these compounds were qualified as non-detects.

Metals: Field blank reported zinc contamination. This resulted in zinc result in samples MW-12 and MW-19 being rejected.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

PEST: Surrogate recoveries for samples MW-12 and MW-19 were below the required QC limits. All non-detected sample results for these samples were qualified "UJ" to indicate the results are estimated due to this anomaly.

PCB: Surrogate recovery for sample MW-18 was below the required QC limits. All compounds for this sample were qualified as "UJ" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Cyanide: The MS %R was below the required QC limits and this resulted in cyanide results in all samples except MW-18 being qualified "UJ" to indicate the results are estimated.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: TIC results for naphthalene, 1,2-dichlorobenzene, 1,3-dichlorobenzene in sample MW-12; naphthalene in samples MW-19 and MW-18 were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as TICs.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of the zinc results qualified with the "R" flag, which are not usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
MW-14	Acetone	385U	4.2
MW-6	Acetone	500U	4.2
MW-7	Acetone	486U	4.2
	Carbon disulfide	5.0U	4.2
MW-12	Acetone	486U	4.2
	Carbon disulfide	5.0U	4.2
	Naphthalene, 1,2-dichlrobenzene, 1,3-dichlorobenzene	R	8.0
MW-19	Acetone	2730U	4.2
	Carbon disulfide	5.0U	4.2
	Naphthalene	R	8.0
MW-18	Acetone	409U	4.2
	Naphthalene	R	8.0

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
MW-15 (N5011-1), MW-15 (N5011-2), MW-14	Endrin ketone, heptachlor	UJ	2.1/2.2
MW-6	Endrin ketone	UJ	2.1
MW-7, FB011219, MW-18	Endrin ketone	UJ	2.1
MW-12, MW-19	All compounds	UJ	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
MW-18	All compounds	UJ	5.1

R2-0004463

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples except MW-18	Cyanide	UJ	5.2
MW-12, MW-19	Zinc	R	5.2

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N5077
Sampling Dates: December 19, 2001

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
TB0111219-02	WATER	N5077-1	X	-	-	-	-
MW-16	WATER	N5077-2	X	X	X	X	X

R2-0004466

Introduction

No. of Samples/Matrix:	2 water samples
Sample Delivery Groups (SDG):	N5077
Sampling Date:	December 19, 2001
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: The trip blank reported carbon disulfide contamination at 5.3ug/L. Detected carbon disulfide result in sample MW-16 was qualified as non-detected at CRDL due to this anomaly.

SVOA: All sample results are acceptable.

Pesticide: Surrogate recovery for sample MW-16 was below the required QC limits. All compounds for this sample were qualified as "UJ" to indicate the results are estimated due to this anomaly.

PCB: Surrogate recovery for sample MW-16 was below the required QC limits. All compounds for this sample were qualified as "UJ" to indicate the results are estimated due to this anomaly.

Metals & Cyanide: All results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004467

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

The trip blank reported carbon disulfide contamination at 5.3ug/L. Detected carbon disulfide result in sample MW-16 was qualified as non-detected at CRDL due to this anomaly.

4.2 Field Blank (FB)

There were no field blanks reported with this SDG.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Surrogate recovery for samples MW-16 was below the required QC limits. All compounds for this sample were qualified "UJ" to indicate the results are estimated due to this anomaly.

PCB: Surrogate recovery for sample MW-16 was below the required QC limits. All compounds for this sample were qualified as "UJ" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

The laboratory correctly reported all TICs.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable.

R2-0004470

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
MW-16	Carbon disulfide	10U	4.1

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
MW-16	All compounds	UJ	5.1

PCB

Sample Identification	Compound	Qualifier	Section Reference
MW-16	All compounds	UJ	5.1

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N11935
Sampling Dates: April 8, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

May 24, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
IB-1-4-6	SOIL	N11935-1	X	X	X	X	X
IB1-0-2	SOIL	N11935-2	X	X	X	X	X
IB-2-4-6	SOIL	N11935-3	X	X	X	X	X
DUP-01-0804012	SOIL	N11935-4	X	X	X	X	X
IB-2-12-14	SOIL	N11935-5	X	X	X	X	X
IB-3-4-6	SOIL	N11935-6	X	X	X	X	X
IB-3-8-10	SOIL	N11935-7	X	X	X	X	X
FB-01-080402	SOIL	N11935-8	X	X	X	X	X

R2-0004473

Introduction

No. of Samples/Matrix:	8 soil samples
Sample Delivery Groups (SDG):	N11935
Sampling Date:	April 8, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

For VOA analyses, the field blank reported acetone and methylene chloride contamination. All affected detected sample results for these compounds were qualified as non-detects at CRDL. TIC results rejected "R" for; naphthalene and 1,2, 4-trichlorobenzene in sample IB-1-0-2; IB-2-4-6, naphthalene in samples IB-1-4-6 and IB-2-12-14, acenapthene and naphthalene in sample DUP-01-0804012 and IB-3-8-10, naphthalene, 1,2-dichlorobenzene, 1,3-dichlorobenzene and 1,2,4-trichlorobenzene in samples IB-3-4-6. These compounds are semi-volatile target compounds and therefore cannot be reported as TICs.

SVOA: All sample results are acceptable.

Pesticide: Gamma-BHC, delta-BHC, endosulfan sulfate and endrin ketone percent difference exceeded the 15% QC limits. This resulted in gamma-BHC, delta-BHC, endosulfan sulfate and endrin ketone results in samples IB-2-4-6 and DUP-08-04012 being qualified "UJ" to indicate the results are estimated due to this anomaly. Endrin aldehye percent difference exceeded the 15% QC limits. This resulted in endrin aldehyde result in samples IB-1-4-6 and IB-1-0-2 being qualified "UJ" to indicate the results are estimated due to this anomaly. Surrogate recovery for sample IB-3-8-10 was above the required QC limits. All detected sample results were qualified "J" to indicate the results are estimated due to this anomaly. The MS reported 0%R for dieldrin and 4,4'-DDT. This resulted in dieldrin and 4,4'-DDT in sample IB-3-4-6 (the original field sample) being qualified as estimated. "UJ/J."

PCB: All sample results are acceptable.

R2-0004474

Metals & Cyanide: MS %R for antimony, mercury and zinc were below the required QC limits and above QC limits for magnesium. This resulted in all associated antimony, mercury and zinc sample results being qualified as estimated "UJ/J" and all detected magnesium results being qualified as estimated "J." Nickel and vanadium results were qualified as estimated "J" due to serial dilution results that were above QC limits.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004475

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 2

6.0 SERIAL DILUTION (SD) **2**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

All is acceptable.

2.2 Continuing Calibration (CCAL)

Pesticide: Gamma-BHC, delta-BHC, endosulfan sulfate and endrin ketone percent difference exceeded the 15% QC limits. This resulted in gamma-BHC, delta-BHC, endosulfan sulfate and endrin ketone results in samples IB-2-4-6 and DUP-08-04012 being qualified "UJ" to indicate the results are estimated due to this anomaly. Endrin aldehye percent difference exceeded the 15% QC limits. This resulted in endrin aldehyde results in samples IB-1-4-6 and IB-1-0-2 being qualified "UJ" to indicate the results are estimated due to this anomaly.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not reported with this SDG.

4.2 Field Blank (FB)

Field blank reported no contamination.

4.3 Method Blank (MB)

VOA: Field blank reported acetone and methylene chloride contamination at 6.3ug/L and 3.0ug/L respectively. All affected detected sample results for these compounds were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

Pesticide: Surrogate recovery for sample IB-3-8-10 was above the required QC limits. All detected sample results were qualified "J" to indicate the results are estimated due to this anomaly.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Pesticide: The MS reported 0%R for dieldrin and 4,4'-DDT; this resulted in dieldrin and 4, 4'-DDT in sample IB-3-4-6 (the original field sample) being qualified as estimated. "UJ/J."

Metals: MS %R for antimony, mercury and zinc were below the required QC limits and above QC limits for magnesium. This resulted in all associated antimony, mercury and zinc sample results being qualified as estimated "UJ/J" and all detected magnesium results being qualified as estimated "J."

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Nickel and vanadium results were qualified as estimated "J" due to serial dilution results that were above QC limits.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: TIC results rejected "R" for; naphthalene and 1,2, 4-trichlorobenzene in sample IB-1-0-2; IB-2-4-6, naphthalene in samples IB-1-4-6 and IB-2-12-14, acenapthene and naphthalene in sample DUP-01-0804012 and IB-3-8-10, naphthalene, 1,2-dichlorobenzene, 1,3-dichlorobenzene and 1,2,4-trichlorobenzene in samples IB-3-4-6. These compounds are semi-volatile target compounds and therefore cannot be reported as TICs.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of the results qualified with the "R" flag. They are not usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
IB-1-4-6	Acetone	28.2U	4.3
	Methylene chloride	6.0U	4.3
	Naphthalene	R	8.0
IB-1-0-2	Acetone	27.0U	4.3
	Methylene	5.9U	4.3
	Naphthalene, 1,2,4-trichlorobenzene	R	8.0
IB-2-4-6	Acetone	48.1U	4.3
	Naphthalene, 1,2,4-trichlorobenzene	R	8.0
DUP-01-080412	Acetone	45.6U	4.3
	Naphthalene, acenapthene	R	8.0
IB-2-12-14	Acetone	35.7U	4.3
	Naphthalene	R	8.0
IB-3-4-6	Acetone	49.5U	4.3
	Naphthalene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,2,4-trichlorobenzene	R	8.0
IB-3-8-10	Acetone	52.9U	4.3
	Methylene chloride	5.4U	4.3
	Naphthalene, acenapthene	R	8.0

Pesticide

Sample Identification	Compound	Qualifier	Section Reference
IB-1-4-6, IB-1-0-2	Endrin aldehyde	UJ	2.2
IB-1-0-2	Endrin ketone	UJ	2.2
IB-2-4-6, IB-2-12-14	Delta BHC, gamma BHC, endrin, endrin ketone	UJ	2.2
IB-3-4-6	Dieldrin, 4,4'-DDE	J	5.1
IB-3810	Beta BHC, 4,4'-DDD	J	~~5.1~~ 5.2 *

Metals

Sample Identification	Compound	Qualifier	Section Reference
All samples except FB-01-080402	Antimony	UJ	5.2
	Magnesium, mercury, nickel, vanadium, zinc 5.2 5.2 6.0 6.0 5.2	J	5.2/6.0

*See page one

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Dioxin Analyses

N12510 X

SDG Nos., N12[redacted]510X, N12606X, N12718X, N12849X
Sampling Dates: April 17, 18 & 19, 2002

Submitted to:

N12510
page 4214
4221
N12606
page 4214
N12718
page 4221
N12849
page 4240

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 10, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	Dioxin 1613A
N12510X			
FB-01-230402	SOIL	N12510-1X	X
HB-3A	SOIL	N12510-2X	X
DUP-01-170402	SOIL	N12510-3X	X
N12606X			
FB-01-180402	SOIL	N12606-1X	X
N12718X			
HB-1A	SOIL	N12718-1X	X
FB-01-19402	SOIL	N12718-2X	X
HB-4A	SOIL	N12718-3X	X
N12849X			
FB-01-230402	SOIL	N12849-1X	X
HB-8A	SOIL	N12849-2X	X

R2-0004481

Introduction

No. of Samples/Matrix:	9 Soil samples
Sample Delivery Groups (SDG):	N2718X, N12849X, N124510X, N12606X
Sampling Date:	April 17, 18 & 19, 2002
Analyses:	Dioxin
Analytical Method:	EPA Method 1613A

Summary of Data Validation:

The adherence of laboratory analytical performance to the above method was evaluated during the data validation process. The USEPA Region II Data Validation SOP No. 25 for EPA Method 1613 was used as the guideline for data qualifications.

N12510X: The results are acceptable.

N12606X: The results are acceptable

N12718X: OCDD in sample HB-4A was rejected since the compound exceeded the calibration range.

N12849X: OCDD in sample HB-8A was rejected since the compound exceeded the calibration range.

A data validation summary table of all qualified compounds is presented in Section 10.0 and a detailed description in the report.

R2-0004482

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CALIBRATION VERIFICATION 1

3.0 BLANKS QUALITY CONTROL **1**

3.1 FIELD BLANK (FB) 1
3.2 METHOD BLANK (MB) 1

4.0 ACCURACY AND PRECISION DATA **1**

4.1 PRECISION RECOVERY STANDARD 1
4.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
4.3 BLANK SPIKES 1

5.0 INTERNAL STANDARD (IS) **1**

6.0 TARGET COMPOUND IDENTIFICATION **1**

7.0 COMPOUND QUANTITATION **1**

8.0 FIELD DUPLICATES (FD) **2**

9.0 OVERALL ASSESSMENT OF DATA **2**

10.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Calibration Verification
All is acceptable.

3.0 Blanks Quality Control

3.1 Field Blank (FB)
Field blank results are acceptable.

3.2 Method Blank (MB)
Method blank results are acceptable.

4.0 Accuracy and Precision Data

4.1 Precision Recovery Standard
Results are acceptable.

4.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Recoveries are acceptable.

4.3 Blank Spikes
All is acceptable.

5.0 Internal Standard (IS)
Results are acceptable.

6.0 Target Compound Identification
All target compound identification is acceptable.

7.0 Compound Quantitation
N12718X :OCDD in samples HB-4A was rejected since the compound exceeded the calibration range.

N12849X: OCDD in samples HB-8A was rejected since the compound exceeded the calibration range.

8.0 Field Duplicates (FD)

Field duplicates were not submitted.

9.0 Overall Assessment of Data

The data as presented are usable with the exception of the results qualified with the "R" qualifier.

R2-0004485

10.0 Data Qualification Summary Table

LCP Superfund Site

N12718X

Sample Identification	Compound	Qualifier	Section Reference
HB-3A	OCDD	R	7.0

N12849X

Sample Identification	Compound	Qualifier	Section Reference
HB-3A	OCDD	R	7.0

R2-0004486

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12510
Sampling Dates: April 17, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Introduction

No. of Samples/Matrix:	3 soil samples
Sample Delivery Groups (SDG):	N12510
Sampling Date:	April 17, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: All results are acceptable.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004488

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
DUP-01-170402	SOIL	N12510-1	X	X	X	X	X
F1B-3A	SOIL	N12510-2	X	X	X	X	X
FB-01-170402	SOIL	N12510-3	X	X	X	X	X

R2-0004489

Table of Contents

1.0 TECHNICAL HOLDING TIME 1

2.0 CALIBRATION 1

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD 1

4.0 BLANKS QUALITY CONTROL 1

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA 1

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) 1

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION 2

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) 2

9.0 COMPOUND QUANTITATION 2

10.0 FIELD DUPLICATES (FD) 2

11.0 OVERALL ASSESSMENT OF DATA 2

12.0 DATA QUALIFICATION SUMMARY TABLE 3

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not included with this SDG.

4.2 Field Blank (FB)
VOA: Field blank reported acetone and carbon disulfide contamination. There were no affected sample results so no validation action was necessary.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)
All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

The laboratory correctly reported all TICs.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was included with this SDG. Its original field sample is not included in this SDG thus, no assessment of the duplicate pair was done.

11.0 Overall Assessment of Data

The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

No data were qualified.

R2-0004493

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12606
Sampling Dates: April 17-18, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 10, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
HB-3B	SOIL	N12606-1	X	X	X	X	X
HB-3C	SOIL	N12606-2	X	X	X	X	X
FB-01-180402	SOIL	N12606-3	X	X	X	X	X
HB-3D	SOIL	N12607-4	X	X	X	X	X

R2-0004495

Introduction

No. of Samples/Matrix:	4 soil samples
Sample Delivery Groups (SDG):	N12606
Sampling Date:	April 17-18, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone and methylene chloride contamination. The affected sample results were qualified as non-detects at CRDL.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004496

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not included with this SDG.

4.2 Field Blank (FB)
VOA: Field blank reported acetone and methylene chloride contamination. The affected sample results were qualified as non-detects at CRDL.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Metals: Antimony recovery was outside the required QC limits and this resulted in all antimony results being qualified as estimated "J."

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TIC results are acceptable.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
HB-3B	Acetone	16.7U	4.3
	Methylene chloride	4.4U	4.3
HB-3C	Acetone	9.2U	4.3
	Methylene chloride	4.5U	4.3
HB-3D	Acetone	48.9U	4.3
	Methylene chloride	6.7U	4.3

Metals

Sample Identification	Compound	Qualifier	Section Reference
All Samples	Antimony	UJ	5.2

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12718
Sampling Dates: April 18 and 19, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
HB-1A	SOIL	N12718-1	X	X	X	X	X
HB-7A	SOIL	N12718-2	X	X	X	X	X
FB-01-190402	SOIL	N12718-3	X	X	X	X	X
HB-4A	SOIL	N12718-4	X	X	X	X	X

R2-0004502

Introduction

No. of Samples/Matrix:	4 soil samples
Sample Delivery Groups (SDG):	N12718
Sampling Date:	April 18 and 19, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone contamination. All affected detected sample results for these compounds were qualified. TIC results for naphthalene in sample HB-1A, naphthalene and 1, 2, 4-trichlorobenzene in sample HB-7A and naphthalene in sample HB-4A were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as TICs.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: Serial dilution results for copper and potassium exceeded the QC limits and this resulted in detected copper and potassium results being qualified as estimated "J."

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004503

Table of Contents

1.0 TECHNICAL HOLDING TIME 1

2.0 CALIBRATION 1

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD 1

4.0 BLANKS QUALITY CONTROL 1

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA 1

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) 1

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION 2

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) 2

9.0 COMPOUND QUANTITATION 2

10.0 FIELD DUPLICATES (FD) 2

11.0 OVERALL ASSESSMENT OF DATA 2

12.0 DATA QUALIFICATION SUMMARY TABLE 3

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time

All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)

The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)

The CCAL is acceptable.

3.0 CRDL Standard

All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)

A trip blank was not included with this SDG.

4.2 Field Blank (FB)

VOA: Field blank reported acetone contamination. All affected detected sample results for these compounds were qualified as non-detects at CRDL.

4.3 Method Blank (MB)

Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery

All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes

All is acceptable.

6.0 Serial Dilution (SD)

Serial dilution results for copper and potassium exceeded the QC limits and this resulted in detected copper and potassium results being qualified as estimated "J."

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: TIC results for naphthalene in sample HB-1A, naphthalene and 1, 2, 4-trichlorobenzene in sample HB-7A and naphthalene in sample HB-4A were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as TICs.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of those results qualified with the "R" flag, which are not usable.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
HB-1A	Naphthalene	R	8.0
HB-7A	Acetone	36.5U	4.2
	Naphthalene, 1,2,4-trichlorobenzene	R	8.0
HB-4A	Acetone	17.1U	4.2
	Naphthalene	R	8.0

Metals

Sample Identification	Compound	Qualifier	Section Reference
HB-1A, HB-7A, HB-4A	Copper, potassium	J	6.0

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12789
Sampling Dates: April 22, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-220402	SOIL	N12789-1	X	X	X	X	X
HB-5A	SOIL	N12789-2	X	X	X	X	X

R2-0004509

Introduction

No. of Samples/Matrix:	2 soil samples
Sample Delivery Groups (SDG):	N12789
Sampling Date:	April 20, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone and carbon disulfide contamination. The affected sample results were qualified as non-detects at CRDL.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004510

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not included with this SDG.

4.2 Field Blank (FB)
VOA: Field blank reported acetone and carbon disulfide contamination. The affected sample results were qualified as non-detects at CRDL.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)
All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

TIC reported for naphthalene was rejected in sample HB-5A since it is a semi-volatile target compound and therefore, cannot be reported as a VOA TIC.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of the one naphthalene result qualified with the "R" qualifier.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
HB-5A	Acetone	35.9U	4.2
	Carbon disulfide	5.1U	4.2
	Naphthalene	R	8.0

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12849
Sampling Dates: April 23, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 6, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
FB-01-230402	SOIL	N12849-1	X	X	X	X	X
HB-8A	SOIL	N12849-2	X	X	X	X	X
HB-8B	SOIL	N12849-3	X	X	X	X	X
HB-8C	SOIL	N12849	X	X	X	X	X

R2-0004516

Introduction

No. of Samples/Matrix:	4 soil samples
Sample Delivery Groups (SDG):	N12849
Sampling Date:	April 23, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone and carbon disulfide contamination. This resulted in acetone and carbon disulfide results in some samples being qualified as non-detects at CRDL. Method blanks reported acetone and methylene chloride contamination. Affected detected sample results for these compounds were qualified as non-detects at CRDL. TICs reported for 1,3-dichlorobenzene, 1,2-dichlorobenzene, 1, 2, 4-trichlorobenzene and naphthalene in sample HB-8C were rejected since they are semi-volatile target compounds and therefore cannot be reported as VOA TICs. TIC reported for naphthalene was rejected in sample HB-8B since it is a semi-volatile target compound and therefore, cannot be reported as a VOA TIC.

SVOA: All results are acceptable.

Pesticide: All results are acceptable.

PCB: All results are acceptable.

Metals & Cyanide: All results are acceptable

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004517

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 2

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
A trip blank was not included with this SDG.

4.2 Field Blank (FB)
VOA: Field blank reported acetone and carbon disulfide contamination. This resulted in acetone and carbon disulfide results in some samples being qualified as non-detects at CRDL.

4.3 Method Blank (MB)
VOA: Method blanks reported acetone and methylene chloride contamination. Affected detected sample results for these compounds were qualified as non-detects at CRDL.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
All recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
All recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)

All IS area counts are acceptable.

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: TICs reported for 1,3-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene and naphthalene in sample HB-8C were rejected since they are semi-volatile target compounds and therefore cannot be reported as VOA TICs. TIC reported for naphthalene was rejected in sample HB-8B since it is a semi-volatile target compound and therefore, cannot be reported as a VOA TIC.

9.0 Compound Quantitation

All is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of those results qualified with the "R" flag.

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
HB-8A	Methylene chloride	68U	4.3
HB-8B	Acetone	33.5U	4.2
	Methylene chloride	7.2U	4.3
	Naphthalene	R	8.0
HB-8C	Methylene chloride	6.2U	4.3
	1,3-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene, naphthalene	R	8.0

DATA VALIDATION REPORT

Site: LCP Superfund Site, Linden NJ
Volatile, Semi-volatile, Pesticide, PCB and Metals Analyses

SDG No. N12990
Sampling Dates: April 24, 2002

Submitted to:

Brown and Caldwell
400 Franklin Turnpike
Mahwah, NJ 07430
1-201-818-6059

Submitted by:

EDV, INC
1326 Orangewood Avenue
Pittsburgh, PA 15216
412-341-5281

Analytical Laboratory: Accutest

June 17, 2002

Sample Identifications

The following table summarizes sample identification, matrix of each sample and analyses present in the data package for each sample.

Client Sample Identification	Matrix	Laboratory ID	VOA 8260B	SVOA 8270C	PEST 8081A	PCBs 8082	Metals 6010B/ 7471A/ 7470A/ 9012
HB-9A	SOIL	N12990-1	X	X	X	X	X
FB-01-240402	SOIL	N12990-2	X	X	X	X	X

R2-0004523

Introduction

No. of Samples/Matrix:	2 soil samples
Sample Delivery Groups (SDG):	N12990
Sampling Date:	April 24, 2002
Analyses:	Volatile, Semi-volatile, Pesticide, PCB and Metals
Analytical Method:	SW 846 8260B, 8270C, 8081A, 8082 and 6010B/ 7470A/7471/9012

Summary of Data Validation:

The adherence of laboratory analytical performance to the above methods was evaluated during the data validation process. The National Functional Guidelines for Organic Data Review (October 1999), the National Functional Guidelines for Inorganic Data Review (February 1994) and Region II Data Validation Checklists were used as guidelines for data qualifications.

VOA: Field blank reported acetone and methylene chloride contamination. All affected detected sample results for these compounds were qualified as non-detects. TIC results for naphthalene and 1, 3-dichlorobenzene in sample HB-9A were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as volatile TICs.

SVOA: All sample results are acceptable.

Pesticide: All sample results are acceptable.

PCB: All sample results are acceptable.

Metals & Cyanide: All sample results are acceptable.

A data validation summary table of all qualified compounds is presented in Section 12.0 and a detailed description in the report.

R2-0004524

Table of Contents

1.0 TECHNICAL HOLDING TIME **1**

2.0 CALIBRATION **1**

2.1 INITIAL CALIBRATION (ICAL) 1
2.2 CONTINUING CALIBRATION (CCAL) 1

3.0 CRDL STANDARD **1**

4.0 BLANKS QUALITY CONTROL **1**

4.1 TRIP BLANK (TB) 1
4.2 FIELD BLANK (FB) 1
4.3 METHOD BLANK (MB) 1

5.0 ACCURACY AND PRECISION DATA **1**

5.1 SURROGATE RECOVERY 1
5.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD) 1
5.3 LABORATORY CONTROL SAMPLES (LCS)/BLANK SPIKES 1

6.0 SERIAL DILUTION (SD) **1**

6.1 INTERNAL STANDARDS (IS) 1

7.0 TARGET COMPOUND IDENTIFICATION **2**

8.0 TENTATIVE IDENTIFICATION COMPOUNDS (TICS) **2**

9.0 COMPOUND QUANTITATION **2**

10.0 FIELD DUPLICATES (FD) **2**

11.0 OVERALL ASSESSMENT OF DATA **2**

12.0 DATA QUALIFICATION SUMMARY TABLE **3**

List of Attachments

A Validated and Qualified Data Sheets (Forms 1s)
B Case Narrative and Chain of Custody

1.0 Technical Holding Time
All is acceptable.

2.0 Calibration

2.1 Initial Calibration (ICAL)
The ICAL is acceptable.

2.2 Continuing Calibration (CCAL)
The CCAL is acceptable.

3.0 CRDL Standard
All is acceptable.

4.0 Blanks Quality Control

4.1 Trip Blank (TB)
No trip blank was reported.

4.2 Field Blank (FB)
VOA: Field blank reported acetone and methylene chloride contamination. All affected detected sample results for these compounds were qualified as non-detects.

4.3 Method Blank (MB)
Method blanks reported no contamination.

5.0 Accuracy and Precision Data

5.1 Surrogate Recovery
Recoveries are acceptable.

5.2 Matrix Spike/Matrix Spike Duplicates (MS/MSD)
Recoveries are acceptable.

5.3 Laboratory Control Samples (LCS)/Blank Spikes
All is acceptable.

6.0 Serial Dilution (SD)
All is acceptable.

6.1 Internal Standards (IS)
All IS area counts are acceptable.

R2-0004526

7.0 Target Compound Identification

All target compound identification is acceptable.

8.0 Tentative Identification Compounds (TICs)

VOA: TIC results for naphthalene and 1,3-dichlorobenzene in sample HB-9A were rejected "R" since they are semi-volatile target compounds and therefore cannot be reported as volatile TICs.

9.0 Compound Quantitation

All compound quantitation is acceptable.

10.0 Field Duplicates (FD)

A field duplicate was not included with this SDG.

11.0 Overall Assessment of Data

The data as presented are usable with the exception of the naphthalene results qualified with the "R" flag, which are not usable.

R2-0004527

12.0 Data Qualification Summary Table

LCP Superfund Site

VOA

Sample Identification	Compound	Qualifier	Section Reference
MW-12	Acetone	21.6U	4.2
	Methylene chloride	5.6U	4.2
	Naphthalene, 1,3-dichlorobenzene	R	8.0

R2-0004528

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, N. Y. 12853
Phone 518-251-4429
Facsimile 518-251-4428

July 5, 2007

Matt Cavas
Brown and Caldwell
110 Commerce Dr.
Allendale, NJ 07401

RE: Data Validation for the LCP Superfund site, Linden, NJ
South Branch and Reference Stream Locations
Accutest SDG Nos. J41738, J41741, J42011, J42360, J42535, J42762, J42838, J42866, J43022, J43207, J43284, J43443, J43008, J41738X, J41741X, J42011X, J42360X, J42535X, J42762X, J42838X, J42866X, J43022X, J43207X, J43284X, J43443A, J43443X, and J43008X

Dear Mr. Cavas:

Review has been completed for the data packages generated by Accutest Laboratories that pertain to samples collected 9/21/06 through 10/10/06 at the South Branch and Reference Stream sites of the LCP Superfund, Linden, NJ project. Eighty soil samples and eleven aqueous samples were processed for TCL Volatiles, TCL Semivolatiles, TCL Pesticides, TCL PCBs, TAL metals, hexavalent chromium, total cyanide, and methyl mercury. Twenty-two of the soil and four of the aqueous samples were also processed for Dioxin/Furans (PCDD/PCDF). The aqueous samples were also analyzed for low level total mercury, TOC, cyanide, TSS, DOC, and total hardness. The soils were also analyzed for Particle Size (Sieve) and Redox Potential. Thirty-seven of the soils were also processed for acid volatile sulfide metals (AVS/SEM). Aqueous samples also underwent Selective Ion Monitoring (SIM) for selected semivolatile analytes in order to obtain better sensitivity and lower reporting limits. Blind field duplicates, sample matrix spikes, field blanks, and trip blanks were processed with the project samples. The specific sample location identifications covered in this report are noted in the attached laboratory summary listings.

The analytical methodologies utilized are those of the USEPA SW846 3rd edition and USEPA Standard Methods. The dioxin/furan analyses were subcontracted to SGS/Paradigm, the methyl mercury and low level aqueous mercury analyses were subcontracted to Columbia Analytical Services (CAS)-Kelso and Battelle Marine Sciences, and AVS/SEM were subcontracted to Accutest-Houston.

Validation review of the data packages has been performed utilizing the guidance in the USEPA National Functional Guidelines for Data Review, the USEPA Region II validation SOPs, the project QAPP (including laboratory SOPs), the specific methodology requirements, and professional judgment.

The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times
* Surrogate Recoveries and Internal Standard Responses
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration Blanks
* Control Spike/Laboratory Control Samples
* Instrumental Tunes
* Calibration/CRI/CRA Standards
* ICP Serial Dilution
* ICP Interference Check Samples
* Dioxin/Furan Recovery and Clean-Up Standards
* Instrument IDLs and Performance
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable according to the validation guidelines noted above.

In summary, most of the sample analyte values/reporting limits are usable as reported, or usable with minor qualification as estimated ("J" qualifier) due to typical processing or matrix effects. The following exceptions were noted:

- Due to matrix effect, the results for hexavalent chromium in the soil samples are not usable, as evidenced by the lack of recovery of that analyte in the spiked sample controls.
- Results for hexachlorocyclopentadiene in most of the soil samples are not usable due to lack of recovery in the project matrix spikes.
- Results for several select volatile or semivolatile compounds are not usable in a limited number of samples due to apparent matrix effect
- POC processing was requested, but was not performed on the samples due to laboratory oversight. There are no POC data for the project.
- Many of the reported pesticide detections have been qualified to reflect the potential for false positives due to matrix interferences.
- Some of the low level detections are considered external contamination, as evidenced by presence in associated blank
- A large proportion of the soil samples covered in this report exhibit low solids (high moisture) content. Therefore, all results for those samples have been qualified as being estimated in quantitative value.

Laboratory processing was generally compliant with analytical protocol requirements, and the project data completeness requirement of 90% has been met.

Copies of the laboratory sample identification summary forms that list the sample covered in this report are attached to this text, and should be reviewed in conjunction with this report. Included with this submission are electronic client data tables that have been qualified in red to reflect the edits and qualifications recommended within this report. These tables have been submitted under separate cover.

The following text discusses quality issues of concern.

General

The strong majority of the samples have solids content below 50%. With low solids (high moisture) content, there exists the possibility of a non-homogeneous aliquot taken during sample collection in the field or during sample processing in the laboratory. Additionally, the aqueous matrix (i.e. which is approached with samples having very low solids content) involves significantly different processing procedures than the solid matrix for semivolatiles (including BNA, pesticides, PCBs, and herbicides) and certain of the wet chemistry analytes. Additionally, the aqueous matrix requires preservation for volatiles, metals, and certain of the wet chemistry parameters not required of the soil samples.

Therefore, results (both detected values and the reporting limits of non-detected analytes) for the samples with solids below 50% have been qualified as estimated, with a possible bias of an unknown direction

TCL Volatiles by USEPA SW846 8260B

Results for LM-E-3, LM-E-4, and LM-F-3 are qualified as estimated due to outlying holding times (analyzed at 15 days from collection). These samples are also qualified due to low solids content.

Matrix spikes (MS and MSD) for SW-D, SW-W, SED-Z-1, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-F-1-0-0.5, SED-F-3-0-0.5, SED-E-2-1.0-1.5, SED-C-3-0-0.5, SED-B-1-0-0.5, SED-A-1-0-0.5 (all at low level), and SED-9 (at medium level) show accuracy and precision within QAPP/validation guidelines, with the following exceptions:

- Recoveries of five compounds are below recommended limit in the matrix spike SW-D, but are acceptable in the MSD. Similarly, a total of 14 compounds show elevated duplicate correla-tions with the MSD>MS. The MS also shows a low internal standard response not exhibited by the parent sample or MSD. The MS outliers are a processing anomaly, and no qualifications were made to the parent sample on that basis.
- Bromoform and 1,2,4-trichlorobenzene did not recover in the spikes of SED-C-3-0-0.5. Results for these two compounds in the parent sample are therefore not usable, and are rejected.
- Bromoform and dibromochloromethane did not recover in the spikes of SED-A-1-0-0.5. Results for these two compounds in the parent sample are therefore not usable, and are rejected. 1,2,4-trichlorobenzene also did not recover in those spikes; the detected value in the parent sample is qualified as estimated. Twenty-seven other volatile analytes recovered below the recommended limit in both spikes. All results for the parent sample are already qualified as estimated due to low solids content.

Field duplicate correlations for SW-B, SW-Y, SED-W-1-0-0.5, SED-F-3-0-0.5, SED-Y-3, and LM-C-2 are acceptable, with the exception of that for methyl acetate in LM-C-2 (114%RPD).

Calibrations standards showed acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated samples:

- acetone and 2-butanone (low RRF) in the three soils reported in SDG J41741, and in LM-B-3 and LM-B-4
- trichlorofluoromethane (28%D) detections in the aqueous samples in SDG J42011
- 2-hexanone (30%D) in samples in SDG J42360
- methyl acetate in eight sample reported in SDG J43443
- acetone (low RRF) in low level soils in SDGs J42535, J42762, J42838, J42866, J43022, J43207
- 2-butanone (low RRF and/or 24%D) in field blanks of 9/29/06, 10/02/06, 10/03/06, and 10/05/06

Results of the field blank of 9/29/06 are qualified as estimated, and may have a low bias, due to elevated temperature at sample receipt (14.5°C).

Tentatively Identified Compounds (TICs) that are flagged as "B" or identified as "system artifacts" are considered external contamination, as shown by presence in the associated blanks.

TCL Semivolatile Analyses by USEPA SW846 8270C

Due to apparent matrix effects, samples SED-F-1-0-0.5, SED-F-2-0-0.5, and SED-F-3-0-0.5 show very low response (<25%) for internal standard d12-perylene. Therefore, the result for the undetected associated analyte, di-n-octylphthalate, is not usable in those three samples. Two of those samples, as well as the field duplicate of the latter, also show low response for internal standard d12-chrysene. Results for all other associated compounds in those samples are qualified as estimated.

The results for the seven compounds associated with d12-perylene are qualified as estimated in SED-E-2-0-0.5, SED-C-3-0-0.5, and SED-B-1-0-0.5 due to low responses of that internal standard in those samples and their matrix spikes.

Matrix spikes (MS and MSD) for SW-D, SW-W, SED-X-3, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-F-1-0-0.5, SED-C-3-0-0.5, SED-C-3-0-0.5, SED-B-1-0-0.5, LM-C-2, and SED-9 show accuracy and precision within validation guidelines, with the following exceptions:

- 3,3'-dichorobenzidine, 3-nitroaniline, and 4-nitroaniline failed to recover in SW-D and SW-W. Results for those three compounds in those two parent samples are therefore rejected, and not usable
- hexachlorocyclopentadiene failed to recover in the matrix spikes of SED-X-3, SED-E-1-0-0.5 SED-F-1-0-0.5, SED-E-2-1.0-1.5, SED-C-3-0-0.5, and SED-9. Due to The persistence of failure in the project soil matrix spikes (in all soils except SED-W-3-0-0.5) the results for this compound in all soil samples covered in this report except those in SDG J42535 are therefore rejected, and not usable.
- bis(2-ethylhexyl)phthalate in SED-F-1-0-0.5 shows elevated recoveries; results in the parent sample are qualified as estimated

- fluoranthene and phenanthrene showed inconsistent results (and very low recoveries) in the spikes of SED-B-1-0-0.5 and SED-9. Results for those two compounds in the two parent samples are qualified as estimated.

Detected values of anthracene and fluoranthene in soils reported in SDG J43022 are qualified as estimated, with a possible high bias, due to elevated recoveries (111% and 118%) in the associated spiked blank control.

Field duplicate correlations for SW-B, SW-Y, and SED-W-1-0-0.5 are acceptable.

The field duplicate evaluation of SED-F-3-0-0.5 shows outlying correlations for acenapthylene, anthracene, benzo(k)fluoranthene, 1,1-biphenyl, dibenz(a,h)anthracene, bis(2-ethylhexyl)phthalate, 2-methylnaphthalene, pyrene (59%RPD to 126%RPD). Results for these analytes in the parent sample and the duplicate are qualified as estimated.

The field duplicate evaluation of SED-Y-3 shows outlying correlations for fluoranthene, phenanthrene, and pyrene (78%RPD to 126%RPD). Results for these analytes in the parent sample and the duplicate are qualified as estimated.

The field duplicate evaluation of LM-D-4 shows outlying correlations for bis(2-ethylhexyl)phthalate and fluoranthene (67%RPD and 101%RPD). Results for these analytes in the parent sample and the duplicate are qualified as estimated.

The results for the field blank of 10/05/06 are qualified as estimated, with a possible low bias, due to outlying holding time to extraction.

Results of the field blank of 9/29/06 are qualified as estimated, and may have a low bias, due to elevated temperature at sample receipt (14.5°C).

Calibrations standards showed acceptable responses with laboratory requirements and validation guidelines, with the following exceptions, results for which are qualified as indicated in the noted samples:

- benzo(k)fluoranthene (28%D) in SIM aqueous samples in SDG J42011
- 2,4-dinitrophenol (33%D) and 4,6-dinitro-2-methylphenol (28%D) in the field blank and all soils reported in SDG J42762
- dibenz(a,h)anthracene (26%D) detections in samples reported in J42866
- hexachlorocyclopentadiene (28%D) in FB 100506
- 2,4-dinitrophenol (28%D) in SED-C-1-0-0.5, SED-C-2-0-0.5, SED-C-2-0.5-1.0, and SED-C-2-1.0-1.5

Due to presence in the associated method or field blank, detected results for bis(2-ethylhexyl)-phthalate in SW-D, and in samples reported in SDGs J42762 and J42838 are considered external contamination, and edited to reflect non-detection ("U").

Tentatively Identified Compounds (TICs) that are flagged as "B" and/or "A", or identified as "system artifacts" are considered external contamination, as shown by presence in the associated blanks.

TCL PCB/Pesticides Analyses by USEPA SW846 8081A and 8082

Some of the pesticide reported detections may reflect responses from the sample matrix or PCB components. Those detections show elevated dual column correlations, with resulting qualifications as either estimated in value ("J"), tentative in identification and estimated in value ("NJ"), or edited to nondetection ("U", sometimes at elevated reporting limits). The correlations reported on summary forms by the laboratory were calculated as %RPD. Per validation protocols, this review evaluation utilized %D. The appropriate qualifica-tions have been made on the attached sample result forms.

Due to elevated surrogate DCB standard recoveries, results for detected pesticides (4,4'-DDD, 4,4'-DDE, and 4,4'-DDT) in the field duplicate of SED-W-1-0-0.5 are qualified as estimated ("J"), and may have a high bias. Results for the parent sample are not affected.

Due to elevated surrogate TCX and/or DCB standard recoveries, results for detected pesticides in SED-F-1-0-0.5, SED-F-2-0-0.5, SED-F-3-0-0.5, SEF-A-2-0-0.5, and the field duplicate of SED-F-3-0-0.5 are qualified as estimated ("J"), and may have a high bias.

Results for SED-7 are qualified as estimated due to outlying holding time for re-extraction (the initial extraction produced outlying low surrogate standard recoveries).

Calibration standards meet protocol and validation requirements.

Matrix spikes of pesticides and Aroclors 1016 and 1260 in SW-D, SW-W, SED-Y-1, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-C-3-0-0.5, SED-B-1-0-0.5, SED-A-1-0-0.5, and SED-9 show acceptable accuracy and precision, with the following exceptions, results for which are qualified as estimated in the indicated parent sample:

- aldrin, a-chlordane, endosulfan I, endosulfan II, heptachlor (outliers 44% to 49%), and 4,4'-DDT (0% and 1000%) in SED-Y-1
- endrin aldehyde, aldrin, and g-chlordane (17% to 44%, 57%RPD to 87%RPD) in SED-E-1-0-0.5
- Aroclor 1260 (225% and 1275%) in SED-B-1-0-0.5

Some of the Aroclor 1016 recoveries in the matrix spikes are elevated due to response contributions from the Aroclor 1254 that is present in the parent sample.

Field duplicate correlations for SW-B and SW-Y are acceptable.

Those for SED-W-1-0-0.5 show an outlying variance for 4,4'-DDT. The results for that analyte in the parent sample and field duplicate are considered additionally estimated (results are also qualified due to low solids content).

The field duplicates of LM-C-2 and LM-D-4 show large variance for 4,4'-DDT, where it was not detected in the parents, but detected at 19 ug/kg or 18 ug/kg in the duplicate. The detected result in the duplicate of LM-C-2 has been qualified as tentative in identification due to dual column variance. The non-detected results of 4,4'-DDT in the parent samples, and the detected result in the duplicate of LM-D-4 are qualified as estimated due to the field duplicate variance.

The field duplicate of SED-F-3-0-0.5 shows significant variances for 4,4'-DDD, 4,4'-DDT, heptachlor epoxide, and methoxychlor (up to more than an order of magnitude). Results are qualified as estimated in the parent sample and duplicate.

The field duplicate evaluation of SED-Y-3 shows outlying correlations for 4,4'-DDD, 4,4'-DDE, an 4,4'-DDT. Results for these analytes in the parent sample and the duplicate are qualified as estimated.

Results of the field blank of 9/29/06 are qualified as estimated, and may have a low bias, due to elevated temperature at sample receipt (14.5°C).

TCL Dioxin/Furan Analyses by USEPA SW846 8290

Results of the field blank of 9/29/06 are qualified as estimated, with a possible low bias, due to elevated temperature at original laboratory sample receipt (14.5°C).

Detected results for samples that were reported with the laboratory "A" qualifier reflect quantitative values below the established linear range of the instrument, and have therefore been qualified as estimated in value.

The method and field blanks contain low levels (below CRDL) of many of the PCDD and PCDF isomers. Field samples containing detected levels of those compounds that are below fivefold of the associated blank concentrations (at the instrument level) are considered potential external contamination. Those detections have been noted as being Estimated Maximum Potential Concentrations (EMPCs). It can be said that these analytes are not present at levels above those originally reported concentrations.

Results for furans that may include quantitative contribution from the corresponding chlorinated biphenyl ethers (BPE) have been noted as being EMPC. They may reflect false positives or a high bias.

Sample responses showing outlying ion ratios do not meet the requirements for identification and have been noted as being EMPC.

Detected results reported with the "Q" laboratory qualifier have been qualified as estimated due to quantitative interferences.

Sample SED-D-3-0-0.5 exhibited an elevated recovery (146%) for recovery standard $^{13}C_{12}$-OCDD. Therefore, the results for associated analyte OCDD are considered additionally estimated in value (all results for that sample are qualified due to low solids content).

The ion ratio of the surrogate standard $^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD in LM-E-3 shows an ion ratio out of acceptable range. The results for this sample are qualified as estimated due to low solids content.

LM-F-2 was re-extracted within holding time. Although the data package only submitted the re-extraction results, the electronic table shows two analysis results. The initial results were deleted from the electronic table.

Matrix spikes were performed on LM-A-3, SW-W, SED-W-3-0-0.5 and show acceptable recoveries and duplicate correlations, with the following exceptions:

- LM-A-3 –two analytes show outlying recoveries in only one spike; three show outlying duplicate correlations. Results for the parent are qualified as estimated due to low solids content
- SED-W-3-0-0.5---OCDD shows elevated recoveries; results for the parent are qualified as estimated due to low solids content
- SED-C-3-0-0.5---these spikes produced nine and ten outlying recoveries and nine outlying duplicate correlations. This is attributed to the matrix. It is also noted that the solids content of the parent sample is 25%, and that for the spikes are 33% and 35%. Sample non-homogeneity is suspected. All results are qualified due to solids content.

Field duplicates of SW-Y, SED-Y-3, SED-W-1-0-0.5, and LMC-2 show acceptable correlations (below 50%RPD or <±CRDL), with the following exceptions, results for which are qualified in the parent sample and its corresponding duplicate:

- Numerous PCDD and PCDF isomers show poor correlations (66%RPD to 200%RPD) in SED-Y-3. All results for that pair are qualified as estimated due to low solids content.
- Six PCDD and PCDF isomers show variances fourfold to fivefold in SED-W-1-0-0.5. All results for that pair are also qualified as estimated due to low solids content.

The date on the method blank summary form for samples in SDG J43207 should have stated the date of 10/18/06, not 10/17/06. The raw data for that blank are correct.

Due to the matrix, sample SED-C-2-0.5-1.0 would not evaporate down to the protocol required volume. This results in elevated reporting limits for undetected compounds.

Detections of 2,3,7,8-TCDF were confirmed by alternate column analyses.

TAL and AVS/SEM Metals by USEPA SW846 6010B, 7470/7471

Results for the AVS/SEM in the field blank of 10/05/06 have been qualified as estimated due to the fact it was not received at the laboratory with adequate preservation.

Holding times were met. Blanks associated with sample analyses show no contamination above the reporting limit.

Matrix spike recovery and laboratory duplicate correlation evaluations were performed for TAL elements on SW-D, SW-W, SED-Z-1, SED-Z-2-0-0.5, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-E-2-1.0-1.5, SED-C-3-0-0.5, SED-B-1-0-0.5, and SED-9, for AVS/SEM processing on SED-Z-2-0-0.5, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-C-3-0-0.5, and SED-9, and for low level total mercury on .

Mercury failed to recover from the SEM digestions for SED-Z-1, SED-E-1-0-0.5, SED-C-3-0-0.5, and SED-9. Results for that element in the SEM fraction of the samples reported in SDGs J42535, J42838, J43022, J43207, J43284, and J43443 that report no detection of mercury are not usable. Detected SEM mercury results in those SDGs are qualified as estimated.

Other recoveries or correlations for the matrix spikes/duplicates that are outside validation guidelines (75% to 125% recovery, 50%RPD) are noted below, with qualification of results as estimated in the indicated samples:

Parent Sample	Analyte	Recoveries	Associated Samples
SED-Z-1	antimony	34% and 34%	Soils in J42535
SED-Z-1	SEM copper	65% and 63%	AVS/SEM in J42535
SED-Z-2-0-0.5	aluminum	126% and 128%	Soils in J42535
	antimony	55% and 55%	"
	copper	136% and 133%	"
SED-W-3-0-0.5	iron	118% and 586% (69%RPD)	Soils in J42762
	aluminum	139% and 105%	"
	antimony	47% and 44%	"
	calcium	70% and 66%	"
	magnesium	131% and 89%	"
	potassium	128% and 84%	"
	manganese	103% and 149%	"
	zinc	104% and 132%	"
	mercury	83% and 54%	"
SED-W-3-0-0.5	SEM cadmium	75% and 70%	AVS/SEM in J42762, J42866, J43022
	SEM lead	198% and 170%	" detections
	SEM zinc	249% and 191%	" detections
SED-E-1-0-0.5	antimony	65% and 65%	Soils in J42838
	barium	10% and 45%	"
	copper	42% and 50%	"
	iron	169% and 70%	"
	magnesium	277% and 208%	"
	manganese	200% and 92%; 62%RPD	"
	potassium	132% and 84%	"
	selenium	70% and 73%	"
	sodium	23% and 90%	"
	calcium	97%RPD	"
SED-E-1-0-0.5	SEM copper	65% and 63%	AVS/SEM in J42838
SED-F-2-0-0.5	antimony	36% and 36%	Soils in J42866
	cadmium	64% and 77%	"
SED-E-2-1.0-1.5	antimony	34% and 33%	Soils in J43022
	silver	275%; 100%RPD	"
	calcium	141%RPD	"
	zinc	71%RPD	"

Parent Sample	Analyte	Recoveries	Associated Samples
SED-C-3-0-0.5	antimony	25% and 29%	Soils in J43207 & J43284
	barium	212% and 250%	"
	cadmium	163% and 78	"
	copper	126% and 494%	"
	chromium	95% and 154%	"
	lead	203% and 108%	"
SED-B-1-0-0.5	aluminum	73% and 90%	"
	antimony	22% and 20%	"
	arsenic	66% and 65%	"
	beryllium	51% and 42%	"
	chromium	27% and 30%	"
	cobalt	70% and 68%	"
	manganese	52% and 56%	"
	nickel	68% and 68%	"
	selenium	68% and 67%	"
SED-C-3-0-0.5	SEM copper	-59% & -55%;74%RPD	AVS/SEM J43207+J43284
	SEM lead	-4% and –20%	"
SED-9	antimony	47% and 50%	Soils in J43443
	magnesium	174% and 108%	"
SED-9	SEM copper	-70% and -61%	AVS/SEM in J43443

Elevated recoveries for elements not detected in the samples do not require qualification of associated data.

The three soil samples reported in SDG J41738 were associated with non-project batch QC that showed seven analytes having low recoveries and ten analytes having outlying duplicate correlations. All results for the samples in that SDG are already qualified as estimated due to low solids content.

Results for all AVS/SEM results in SED-C-3-0-0.5 are qualified as estimated due to low recoveries (60% to 58%) in the volatile sulfide procedure.

Field duplicate evaluations were performed for on SW-B, SW-Y, SED-W-1-0-0.5, SED-F-3-0-0.5, LM-C-2, and LM-D-4, for SEM metals on SED-W-1-0-0.5 and SED-Y-3, and for low level total mercury on SW-B and SW-C. The following outliers were observed, with resultant qualification of that element as estimated in the specific parent sample and associated duplicate:

- mercury in SB-B (66%RPD)
- the field duplicate of SED-W-1-0-0.5 (logged into the laboratory with the suffix "B" to the lab ID number ten days after receipt) shows no detection of any of the analytes; this is atypical of the project soil SEM results. The parent sample shows normal constituency. The reason for the duplicate sample variance is not evident.
- lead and mercury in SED-F-3-0-0.5
- AVS/SEM cadmium in SED-F-3-0-0.5
- aluminum, chromium, and zinc (52%RPD to 74%RPD) in LM-C-2
- barium (55%RPD) in SED-Y-3

The ICP serial dilutions of SEM metals on SED-W-3-0-0.5 and SED-C-3-0-0.5, and of total metals on SED-E-1-0-0.5 and SED-E-2-1.0-1.5 show acceptable correlations.

The following ICP serial dilution evaluations show outlying correlations, with detected results in associated samples qualified as estimated ("J"):

Parent Sample	Analyte	%RPD	Associated SDGs
SW-D	potassium	12	J42011
SW-W	potassium	16	J42360
SED-Z-1	potassium and sodium	12 and 16	J42535
SED-Z-2-0-0.5	lead, magnesium, potassium, and sodium	12 to 16	J42535
SED-Z-1	SEM lead	17	AVS/SEM J42535
SED-E-1-0-0.5	SEM lead	17	AVS/SEM J42838
SED-W-3-0-0.5	cobalt, lead, nickel, sodium, and zinc	11 to 15	J42762
SED-F-2-0-0.5	sodium and zinc	10 to 12	J42866
SED-9	sodium and zinc	10 to 12	J43443
SED-C-3-0-0.5	barium, cobalt, vanadium, and zinc	11 to 28	J43207
SED-B-1-0-0.5	arsenic, cadmium, calcium, chromium, cobalt, copper, lead, magnesium, manganese, nickel, potassium, sodium, and zinc	11 to 22	J43207
SED-9	SEM cadmium and lead	11 and 12	AVS/SEM J43443

The result for sodium in the field blank of 9/21/06 is qualified as estimated ("J"), with a low bias, due to low recovery for the associated low-level CRI standard.

The result for arsenic in the samples reporting detection in SDG J42011 are qualified as estimated ("J"), with a high bias, due to elevated recovery for the associated low-level CRI standard.

The results for mercury in the field blank of 09/29/06 and in the SEM fractions of the soils in J42762, J42866, and J43284 are qualified as estimated ("J"), with a low bias, due to low recoveries for the associated low-level CRI standards.

The result for antimony in the field blank of 10/02/06 is qualified as estimated ("J"), with a low bias, due to low recovery for the associated low-level CRI standard.

The results for arsenic in SED-Z-2-0-0.5, and in all soil reported in J42866 except SED-F-2-0-0.5, are qualified as estimated ("J"), with a high bias, due to elevated recoveries in the associated low-level CRI standards.

Wet Chemistry- Methyl Mercury, Cyanide, Hexavalent Chromium, TOC, Seive, Redox Potential (ORP), TSS, DOC, Hardness, pH

Review was conducted for method compliance, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure.

Hexavalent chromium failed to recover in the matrix spikes of LM-A-1, SED-Z-1, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-F-1-0-0.5, SED-E-2-0-0.5, SED-C-3-0-0.5, SED-B-1-0-0.5, SED-A-1-0-0.5, SW-C, and SED-9. Therefore, all non-detected results for that analyte in soils are rejected, and provide no usable information as to the presence or absence of that analyte. Detected values are qualified as estimated, and may have a significant low bias. Although those data are rejected, it can be said that the total chromium of the samples would represent a maximum potential value for hexavalent chromium.

The following matrix spike recovery/laboratory duplicate evaluations were performed:

- TOC in LM-A-2 and LM-F-3
- hexavalent chromium in LM-A-1, SW-A, SED-Z-1, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-F-1-0-0.5, SED-E-2-0-0.5, SED-C-3-0-0.5, SED-B-1-0-0.5, SED-A-1-0-0.5, and SED-9
- Redox Potential on LM-A-1 and SED-Z-1
- cyanide, TOC, DOC, TSS, and Hardness on SW-D and SW-W
- cyanide on SED-Z-2-1-1.5, SED-W-1-0-0.5, SED-D-2-2.0-2.5, LM-F-1, SED-9, and SED-A-2-0-0.5
- Sieve duplicates on SED-X-3, SED-W-3-0-0.5, SED-F-1-0-0.5, SED-E-2-0.5-1.0, SED-C-3-0-0.5, SED-B-1-0-0.5, SED-9, and SED-A-1-0-0.5
- cyanide, hexavalent chromium, Redox Potential, solids, and ph on SED-W-1-0-0.5
- cyanide and TOC on SED-E-1-0-0.5 and SED-C-3-0-0.5
- methyl mercury on LM-A-2, SW-D, SED-Z-1, SED-W-3-0-0.5, SED-E-2-0-0.5, FB100506, SED-C-3-0-0.5, SED-B-1-0-0.5, and SED-9

The result for cyanide in SED-9 is rejected and not usable due to very low recovery (7%) in the matrix spike of that sample.

Outlying matrix spike recoveries or duplicate correlations (in addition to the hexavalent chromium and cyanide outliers noted above) are listed below, with qualification of results as estimated in the indicated samples:

Parent Sample	Analyte	Associated Samples
SED-Z-2-1-1.5	Cyanide	soils in SDG J42535
SED-F-1-0-0.5	Gravel	parent sample
SED-E-2-0.5-1.0	Gravel	parent sample
SED-C-3-0-0.5	Gravel	parent sample
SED-B-1-0-0.5	Gravel	parent sample
SED-C-3-0-0.5	Cyanide and TOC	soils in SDG J43207
SED-A-1-0-0.5	Gravel	parent sample
SED-9	Gravel and methyl mercury	parent sample

The accuracy and precision evaluation for methyl mercury in LM-A-2 was repeated due to initial spiking error.
Some of the analyte recovery evaluations are not applicable due to high parent sample concentrations.

Field duplicate evaluations were performed for the following sample analytes.

- methyl mercury and total mercury in SW-B and SW-C
- methyl mercury on LMC-2, SED-Y-3, SED-W-1-0-0.5, SED-F-3-0-0.5, and LM-D-4
- TSS, hexavalent chromium, TOC, DOC, Hardness on SW-B and SW-Y
- Redox Potential, TOC, hexavalent chromium, sieve, and cyanide on SED-F-3-0-0.5, SED-Y-3, LM-D-4, and LM-C-2

Outliers were observed for the following analytes, with resultant qualification as estimated in the specific parent sample and associated duplicate:

- TSS (78%RPD) in SB-B
- Redox Potential and solids in SED-F-3-0-0.5
- % solids on LM-C-2
- No. 200 Sieve, %Silt, and Redox Potential on LM-D-4

The samples submitted in J42011 and the field blank of 9/21/06 (J41741) showed inadequate preservation at laboratory receipt. Results for these samples are therefore qualified as estimated, with a potential low bias.

The result for methyl mercury in the field blank of 9/29/06 is qualified as estimated due to elevated temperature at sample receipt (14.5°C).

Results for TOC in LM-D-3, LM-D-4, SED-7, and SED-8 are qualified as estimated, with unknown bias, due to variance in the result of the replicate injections.

Some of the field blanks show low levels of methyl mercury. Associated aqueous sample detected values are of high enough concentration to be disregarded as external contamination. Several of the soil samples reported in J42535, SED-E-2-1.5-2.0, SED-C-2-1.0-1.5 show levels within the action range for consideration as contamination, and have been edited to reflect non-detection at elevated reporting limits.

Samples SED-Y-1, SED-X-1, and SED-X-3 were received in broken containers that were closed into baggies. These samples are qualified for low solids content, but may also have a low bias due to potential losses.

Data Package Completeness/Chains-of-Custody

The chains-of-custody associated with the subcontracts do not include times of collection. They were present on the original field custodies and bottle labels. Some of the custodies do not include specific entries of release time and/or receipt date and time. The down-arrow for collection date was not present on the custody for J42762.

Some of the custodies for the subcontracting transfer to Battelle do not include release date, release times, and/or receipt signatures. The custody entry for SED-D-1-0-0.5 incorrectly denotes it as being HCl preserved.

The matrix of one of the field blanks on a custody submitted to Paradigm was incorrectly denoted as being soil.

The calibration standard sections of the Paradigm data packages are not paginated

Discrepancies in custody entries were resolved at sample receipt. Edits to custodies should have been dated and initialed.

SW-Y was reported as SW-4 in some of the hardcopy data. Similarly, some of the laboratory report forms show SED-4-3 rather than SED-Y-3. The field blank FB100506 is noted as being FB100S06 on some of the forms. Proper identifications were made on the electronic deliverables.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Att: Validation qualifier definitions
Copies of sample client and laboratory identifications

VALIDATION QUALIFIER DEFINITIONS

DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

U	-	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	-	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	-	The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	-	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	-	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	-	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

R2-0004545

LABORATORY SAMPLE IDs AND CASE NARRATIVES

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, N. Y. 12853
Phone 518-251-4429
Facsimile 518-251-4428

September 11, 2007

Matt Cavas
Brown and Caldwell
110 Commerce Dr.
Allendale, NJ 07401

RE: Data Validation for the LCP Superfund site, Linden, NJ
Accutest SDG Nos. J44803, J44938, J45239, J45527, J46783, J45854, J46057, J46213, J46443, J46565, J46700, J46853, J47004, J47128, J47366, J48098, J48211, J48325, J49293, J49409, J49451, J49611, J51040, J51158, J51393, J51494, J51580, J51673, J51889, J52021, J52027, J52130, J52219, J52588, J52669, J52751, J52878, J52971, J53104, J53258, J53388, J53483, J53484, J53630, J53740, J53817, J54238, J54435, J54580, J54581, J54589, J54782, J55249, J55249X, J55951, J55951X, J56074, and J57403

Dear Mr. Cavas:

Review has been completed for the data packages generated by Accutest Laboratories that pertain to samples collected 10/26/07 through 3/30/07 at the LCP Superfund, Linden, NJ project site. One hundred and six soil samples and twenty-eight aqueous samples were processed for TCL Volatiles, TCL Semivolatiles, TCL Pesticides, TCL PCBs, TAL metals, hexavalent chromium, and total cyanide. The soil samples were also processed for TOC and Redox Potential, and the aqueous samples were also processed for filtered metals. Twelve of the soil samples were also processed for Dioxin/Furans (PCDD/PCDF). Twenty-four of the samples were also processed for methyl mercury. A total of thirty samples were processed only for mercury (total or filtered). Four aqueous and one soil sample were analyzed only for metals. Aqueous samples also underwent Selective Ion Monitoring (SIM) for selected semivolatile analytes in order to obtain better sensitivity and lower reporting limits. Blind field duplicates, sample matrix spikes, field blanks, and trip blanks were processed with the project samples. The specific sample location identifications covered in this report are noted in the attached laboratory summary listings.

The analytical methodologies utilized are those of the USEPA SW846 3rd edition and USEPA Standard Methods. The dioxin/furan analyses were subcontracted to SGS/Paradigm, the methyl mercury to Battelle Marine Sciences.

Validation review of the data packages has been performed utilizing the guidance in the USEPA National Functional Guidelines for Data Review, the USEPA Region II validation SOPs, the project QAPP (including laboratory SOPs), the specific methodology requirements, and professional judgment.

The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times
* Surrogate Recoveries and Internal Standard Responses
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration Blanks
* Control Spike/Laboratory Control Samples
* Instrumental Tunes
* Calibration/CRI/CRA Standards
* ICP Serial Dilution
* ICP Interference Check Samples
* Dioxin/Furan Recovery and Clean-Up Standards
* Instrument IDLs and Performance
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable according to the validation guidelines noted above.

In summary, most of the sample analyte values/reporting limits are usable as reported, or usable with minor qualification as estimated ("J" qualifier) due to matrix effects. The following exceptions were noted:

- Due to matrix effect, the results for hexavalent chromium in numerous samples are not usable, as evidenced by the lack of recovery of that analyte in the sample spikes.
- Results for several select volatile or semivolatile compounds are not usable in a limited number of samples due to matrix effects
- Numerous metals results of soil and aqueous samples were qualified as estimated due to matrix effects
- Reporting limits for metals in many of the aqueous samples are elevated, typically tenfold, due to interferences, primarily from sodium constituency
- Some of the low level detections are considered external contamination, as evidenced by presence in associated blank

Laboratory processing was generally compliant with analytical protocol requirements, the samples do not show significant matrix effects on organic target analyte recoveries, and the project data completeness requirement of 90% has been met.

Copies of the laboratory sample identification summary forms that list the sample covered in this report are attached to this text. Included with this submission are electronic client data tables that have been qualified in red to reflect the edits and qualifications referenced and recommended within this report. These tables have been submitted under separate cover.

The following text discusses quality issues of concern.

General

Due to low solids content (20.8%), results (both detected values and the reporting limits of non-detected analytes) for LHP-126-10.5-12 have been qualified as estimated, with a possible bias of an unknown direction. This is due to the potential for non-homogeneity during sample collection/processing, as well as to the variances in analytical methodologies betweennn aqueous and soil matrices.

Field and trip blanks submitted with the samples covered in this report show minimal contamination, with most having no contamination above reporting limits. The rare exceptions where sample results are affected are noted in the following text.

Sample LHP-105-1-3 was reported by the laboratory in the data package as "LHP-105-13-1". The electronic tables are correct.

TCL Volatiles by USEPA SW846 8260B

Results for toluene in MW-13S and MW-18S are considered external contamination due to presence I the associated field blank, and are edited to non-detection.

Matrix spikes (MS and MSD) for MW-6D-12-14, MW-16D-17-19, LHP-111-0-1, LHP-105-1-3, ADS-102-7-8, MW-11D-12-14, MW-23D, MW-9S, MW-24S, H-B-105D, and MW-22S show accuracy and precision within QAPP/validation guidelines, with the following exceptions:

- bromomethane in MW-11D-12-14—that result in the parent sample is qualified as estimated
- numerous analytes show elevated duplicate correlations in MW-23D. The sample reports no detections, and reported results are unaffected.
- carbon disulfide, 1,1-dichloroethene, and trans-1,2-dichloroethene in MW-24S show low recoveries

Field duplicate correlations for WW-101-15-17, MW-16D-17-19, MW-25D-10-12, LHP-105-0-1, LHP-128-0-1, MW-7S, and MW-19S are acceptable, with the exception of that for methylene chloride (>±CRDL) in WW-101-1115-17. Results for that analyte in the parent sample and duplicate are qualified as estimated.

Calibrations standards show acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated samples:

- acetone and/or 2-butanone (low RRF) in the majority of the sample covered in this report
- bromomethane in MW-11D-12-14
- chloromethane in MW-18S
- carbon disulfide and bromoform in HB-102B and HB-102C

No qualification is made for analytes that show elevated responses in calibration standards but were not detected in the samples.

The results for the trip blank reported in SDG J46700 are qualified as estimated due to analysis beyond the QAPP holding time requirement.

The results for TB020207 are qualified as estimated due to bubbles present in the vials, and the potential of loss through headspace.

No volatile field or trip blank analysis was associated with HB-102A. The sample reports no detection of volatile compounds, and results are therefore not affected.

Tentatively Identified Compounds (TICs) that are flagged as "B" or identified as "system artifacts" are considered external contamination, as shown by presence in the associated blanks.

TCL Semivolatile Analyses by USEPA SW846 8270C

The three soils reported in SDG J44803 and six soils in J48098 show outlying low responses for one or more internal standards. The results for specific target analyte compounds associated with the outlying standards have been qualified as estimated in those samples.

Four soil samples reported in J48325 show sufficiently low responses for internal standard d12-perylene that results for non-detected analytes associated with that internal standard have been rejected, and are not usable. For those samples, detected results associated with d12-perylene, as well as all results associated with d12-chrysene, have been qualified as estimated.

Six detected results in TES-4-0-1 have been qualified as estimated due to elevated response of the associated internal standard.

Results for benzaldehyde in WW-101-15-17, its field duplicate, MW-23D-15-17, and MW-14D-17-19 are not usable due to lack of recovery of this compound in the associated spiked blank controls.

The results for 2-methylphenol MW-23D-15-17 and MW-14D-17-19 are qualified as estimated due to low recovery in the associated spiked blank control.

MW-17D and MW-17S were re-extracted beyond allowable holding time, due to low recoveries for seven analytes in the associated spiked blank control. The initial results are used, with results for those compounds qualified as estimated. Additionally, the result for 2-chlorophenol in MW-17D and the detected values in MW-17S (they are derived from the re-extractions) are qualified as estimated due to the outlying holding time.

MW-16S was re-extracted due to a single low surrogate recovery. The initial result can be used without qualification.

The results for 2-chlorophenol in the soil samples reported in SDG J47004, and for 2,4,6-trichlorophenol in the soils reported in J48098 are qualified as estimated due to slightly low recovery in the associated spiked blank control.

Field duplicate correlations for WW-101-15-17, MW-16D-17-19, MW-25D-10-12, LHP-105-0-1, LHP-128-0-1, MW-7S, and MW-19S are acceptable, with the exception of that for bis(2-ethylhexyl)phthalate in LHP-105-0-1, which shows variance exceeding ±2XCRDL. The results for that analyte in the parent sample and duplicate have been qualified as estimated.

Matrix spikes (MS and MSD) for LHP-124-2-4, LHP-124-10-12, MW-6D-12-14, MW-25D-10-12, LHP-111-0-1, LHP-105-1-3, LB-103-0-1, MW-11D-12-14, MW-11D-16-18, MW-17D, MW-16D, MW-21D, MW-6D, MW-7S, MW-8S, MW-12S, MW-9S, MW-22S, and H-B-104B show accuracy and precision within validation guidelines, with the following exceptions:

- benzaldehyde and hexachlorocyclopentadiene failed to recover in LHP-124-2-4 and hexachlorocyclopentadiene failed to recover in LHP-109-7-9. Results for those specific compounds in the noted parent samples are therefore rejected, and not usable
- benzaldehyde, hexachlorocyclopentadiene, atrazine, 3,3-dichorobenzidine, and caprolactum failed to recover in LHP-109-7-9. Results for those specific compounds in the parent sample are therefore rejected, and not usable. The result for 4-chloroaniline in this parent sample is qualified as estimated due to outlying spike recoveries.
- benzaldehyde failed to recover in DUP02070, and the results for that compound in the field duplicate and parent sample are rejected. The result for phenol is qualified as estimated in that parent and duplicate because the matrix spike responses were not resolved from those of aniline the spikes.
- bis(2-ethylhexyl)phthalate in LHP-124-2-4 shows elevated recoveries; results in the parent sample are qualified as estimated
- five analytes did not recover in the spikes of LHP-111-0-1, but they were analyzed at tenfold dilution. Accuracy and precision for the other analytes were acceptable; no qualification is indicated
- 4,6-nitro-2-methylphenol in LHP-109-0-1 is qualified as estimated due to low recovery
- some of the SIMs matrix spikes show slightly outlying recoveries, but were inadvertently spiked at concentrations exceeding instrument linear range; no qualification is made
- MW-23D shows elevated duplicate correlations for more than thirty analytes; the recoveries are acceptable, and the parent sample shows no detections; no qualification is made
- matrix spikes of MW-12S exhibited elevated duplicate correlations for all but one analyte. This variance was also noted in the surrogate recoveries of the spikes, and is likely an extract-specific anomaly—no qualification is made
- benzo(k)fluoranthene in MW-12S
- five analytes show low recovery in the matrix spikes of MW-22S, and have been qualified as estimated in the parent sample

The results for the field blank of 12/05/06 are qualified as estimated, with a possible low bias, due to outlying holding time to extraction.

Due to presence in the associated field blank, the detected results for bis(2-ethylhexyl)phthalate in H-B-103A and H-B-104A, and for 2-methylnaphthalene inn HB-102B, are considered external contamination, and edited to reflect non-detection ("U").

Calibrations standards showed acceptable responses with laboratory requirements and validation guidelines, with the following exceptions, results for which are qualified as indicated in the noted samples:

- hexachlorocyclopentadiene in MW-17D-15-17, MW-17D-17-19, FB102706, FB110807, LHP-113-0-1, LHP-106-0-1, LHP-119-0-1, TES-4-0-1, TES-1-0-1, FB121406, FB121806, MW-15S, MW-24S, FB022007, and HB-102C
- bis(2-ethylhexyl)phthalate detections in soils in J44803
- 2,4-dinitrophenol and 4-nitrophenol in FB103106
- hexachlorocyclopentadiene, 2,4-dinitrophenol, and 4-nitrophenol in MW-20D-32-34 and MW-20D-36-38
- hexachlorocyclopentadiene and 4,6-dinitro-2-methylphenol in FB111006
- hexachlorocyclopentadiene, benzaldehyde, and 2-methylphenol in FB111306
- 2-methylphenol in FB111506
- 2-chlorophenol, 2,4,6-trichlorophenol, and 1,1-biphenyl in soils reported in J46853
- hexachlorocyclopentadiene, hexachlorobutadiene, and 1,1-biphenyl in FB111606
- hexachlorocyclopentadiene and 2,4-dinitrophenol in four samples in J48325,
- pentachlorophenol in MW-17D, MW-17S, MW-18D, MW-16S, MW-14S, and the associated field blanks
- 4-nitrophenol in MW-18D and its field blank

Tentatively Identified Compounds (TICs) that are flagged as "B" and/or "A", or identified as "system artifacts" are considered external contamination, as shown by presence in the associated blanks.

TCL PCB/Pesticides Analyses by USEPA SW846 8081A and 8082

Samples MW-8S and MW-12S show very high concentrations of elemental sulfur (also noted in the BNA analysis TIC results). Although the extracts went through copper cleanup, there is still sufficient copper as to produced significant interferences in the pesticide and PCB analyses of those samples. These would have completely masked response for heptachlor on both analytical columns used in these analyses, and results for that compound are therefore rejected, and not usable in those samples. Results for the other pesticides and PCB analytes (they report no detection) are qualified as estimated in value, and should be considered as being borderline usability.

Some of the pesticide reported detections may reflect responses from the sample matrix or PCB components. Those detections show elevated dual column correlations, with resulting qualifications as either estimated in value ("J"), tentative in identification and estimated in value ("NJ"), or edited to nondetection ("U", sometimes at elevated reporting limits). The correlations reported on summary forms by the laboratory were calculated as %RPD. Per validation protocols, this review evaluation utilized %D. The appropriate qualifications have been made on the client results tables.

MW-16D-13-15 and LHP-122-0-1 produced low recoveries for all surrogates in the initial extractions. The re-extractions were beyond allowable holding time. The pesticide and PCB results are qualified as estimated, and likely have a low bias.

The results for the field blank of 12/18/06 are qualified as estimated, with a possible low bias, due to outlying holding time to extraction.

The field blanks FB112006 and FB020207 were re-extracted (beyond holding time) due to low surrogate recovery on one column. The initial alternate column responses were acceptable, and are used without qualification.

Calibration standards meet protocol and validation requirements.

Matrix spikes of pesticides and Aroclors 1016 and 1260 were performed on LHP-124-10-12, MW-6D-12-14, MW-25D-10-12, LHP-105-1-3, MW-11D-16-18, MW-16S, MW-23D, H-B-105C, and MW-22S. Matrix spikes of pesticides were performed on LHP-101-0-1 and LHP-109-7-9, and matrix spikes of Aroclors 1016 and 1260 on LHP-105-5-8 and LHP-121-0-1. They show acceptable accuracy and precision, with the following exceptions:

- several recoveries were elevated in LHP-105-1-3 due to high concentrations of Aroclor 1254 in the parent sample.
- seven pesticides show low recoveries in MW-16S spikes, and results for those compounds in the parent sample are qualified as estimated in value
- recoveries were elevated in some cases for analytes not detected in the samples due to interferences; no qualifications are made as a result

Due to slightly low recoveries in the associated spiked blank controls, the results for d-BHC in the soils reported in J49409, and in the aqueous samples in J51494, J51580, J51673, J51889, J52021, and J52219 are qualified as estimated, with a possible low bias.

Field duplicate correlations for WW-101-15-17, MW-16D-17-19, LHP-128-0-1, MW-7S, and MW-19S are acceptable.

The field duplicate correlations for Aroclors 1254 and 1260 in LHP-105-0-1 show variance where there were detections in the parent at levels above CRDL (up to 629 ug/kg), but no detections above the CRDL of 35 ug/kg in the duplicate. Those results have been qualified as estimated in the parent and its duplicate.

TES-3-0-1 shows elevated surrogate recoveries in the pesticide and PCB analyses due to interferences from the PCBs in the sample. No qualification is made.

TCL Dioxin/Furan Analyses by USEPA SW846 8290

Detected results for samples that were reported with the laboratory "A" qualifier reflect quantitative values below the established linear range of the instrument, and have therefore been qualified as estimated in value.

Results for furans that may include quantitative contribution from the corresponding chlorinated biphenyl ethers (BPE) have been noted as being EMPC. They may reflect false positives or a high bias.

The method and field blanks contain low levels (below CRDL) of many of the PCDD and PCDF isomers. Field samples containing detected levels of those compounds that are below fivefold of the associated blank concentrations (at the instrument level) are considered potential external contamination. Those detections have been noted as being Estimated Maximum Potential Concentrations (EMPCs). It can be said that these analytes are not present at levels above those originally reported concentrations.

Sample responses showing outlying ion ratios do not meet the requirements for identification and have been noted as being EMPC.

Detected results reported with the "Q" laboratory qualifier have been qualified as estimated due to quantitative interferences.

TAL Metals by USEPA SW846 6010B, 7470/7471

As noted earlier, reporting limits for many aqueous sample analytes are elevated due to matrix interference. Although this results in limits that are higher than those proposed, this occurs only in samples showing extremely high concentrations of sodium and other elements.

Sample LCP-231-SS112706 was reported on a wet weight basis. A minimal quantity of sample was submitted; no solids determination was performed. The "as-received" basis should be considered in the evaluation of those data.

Analytes showing matrix spikes recoveries that are outside validation guidelines are noted below, with qualification of results as estimated in the samples in the indicated samples:

Parent Sample	Analyte	Associated Samples
LHP-126-2-4	aluminum, barium, beryllium, cobalt, potassium, and sodium	J44803
LHP-125-.5-2	antimony, copper, lead, magnesium, manganese, and zinc	J44938
LHP-125	antimony, barium, manganese	J45239
LP-101-11-13	antimony	J45527
WWT-101-21-23	antimony	J45783
MW-6D-12-14	aluminum, antimony, barium, cadmium, chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, and vanadium	J45854
MW-20D-12-14	antimony, manganese, iron, potassium, and mercury	J46057
MW-20D-36-38	antimony, arsenic, calcium, chromium, manganese, potassium, selenium, zinc	J46213
MW-14D-13-15	antimony, barium, iron, manganese	J46443
MW-23D-15-17	antimony, manganese, iron, magnesium	J46565
MW-23D-37-39	antimony and selenium	J46700, J46853, and J47004
MW-6D-30-32	antimony, aluminum, barium, potassium	J47128 and J47366
LHP-111-0-1	antimony, barium, calcium, magnesium, manganese, zinc	J48098

cont'd

Parent Sample	Analyte	Associated Samples
LHP-105-1-3	antimony and mercury	J48211
LHP-127-3-5	antimony, arsenic, beryllium, chromium, potassium, and mercury (detections)	J48325
MW-11D-16-18	antimony, iron, manganese, selenium	J49293, J49409, and J49611
MW-110-14-16	antimony, iron, manganese, sodium	J49293, J49409, and J49611
TPS-1	sodium	J49451
MW-17D	cadmium and iron	J51040 and J51153
MW-18D	iron, mercury, thallium	J51393, J51494, J51580, and J51673
WC-SOIL-011907B	mercury	J52027
MW-6S	potassium	J52130, J52219, and J52588
MW-23D	potassium	J52669 and J52751
MW-6D	potassium	J52878, J52971, J53104, and J53258,
H-B-105C	mercury	J53484
H-B-103A	antimony and magnesium	J53484 and J54238
SW-SB-2-22-07-1400	mercury	J54435 and J54581
H-B-104B	antimony	J54580 and J54782
HB-101A	antimony	J55249 and J55951
HB-102C	antimony, potassium, thallium	J56074

Laboratory duplicate correlations are acceptable. Matrix spikes for TAL metals on MW-16S, and for mercury on LHP-124-10-12, MW-7S, MW-22S, HB-102B, and DUP110606 show recoveries within recommended limits. Elevated matrix spike recoveries for elements not detected in the samples do not require qualification of associated data.

Field duplicate evaluations were performed for on WW-101-15-17, MW-16D-17-19, MW-25D-10-12, LHP-105-0-1, LHP-128-0-1, MW-7S, and MW-19S, and for filtered mercury in SW-VB-02-23-07-0900. The following outliers were observed, with resultant qualification of that element as estimated in the specific parent sample and associated duplicate:

- barium and manganese inn WW-101-15-17
- zinc in MW-16D-17-19
- mercury in MW-25D-10-12
- iron in filtered fraction of MW-19S

Due to low level detection in the associated field blank, the results for manganese in MW-22S and its filtrate are edited to reflect non-detection at the originally reported concentrations.

The following ICP serial dilution evaluations show outlying correlations, with detected results (greater than 10 X IDL) in associated samples qualified as estimated ("J"):

Parent Sample	Analytes	Associated SDGs
LHP-126-2-4	calcium, cobalt, magnesium, nickel	J44803
LHP-125-.5-2	zinc	J44938
LHP-125	aluminum, barium, beryllium, calcium, potassium and zinc	J45239
LP-101-11-13	calcium, chromium, cobalt, copper, nickel, zinc	J45527
WWT-101-21-23	calcium, chromium, cobalt, iron, manganese, sodium, vanadium, and zinc	J45783
MW-6D-12-14	barium, cadmium, cobalt, iron, nickel, potassium, sodium	J45854
MW-20D-12-14	copper	J46057
MW-20D-36-38	aluminum, barium, calcium, chromium, cobalt, iron, magnesium, manganese, nickel, potassium, sodium, vanadium, zinc	J46213
MW-14D-13-15	aluminum and beryllium	J46443
MW-23D-37-39	beryllium, chromium, manganese, nickel, potassium sodium, vanadium, zinc	J46700, J46853 and J47004
MW-6D-30-32	nickel and sodium	J47128 and J47366
LHP-105-1-3	arsenic, barium, beryllium, calcium, chromium magnesium, and nickel	J48211
LHP-127-3-5	arsenic, beryllium, calcium, chromium, magnesium, nickel, silver, sodium	J48325
MW-11D-16-18	aluminum, barium, calcium, chromium, cobalt, magnesium, manganese, nickel, potassium, sodium, and zinc	J49293, J49409, and J49611
MW-110-14-16	potassium and sodium	J49293 andJ49409
MW-17D	potassium	J51040 and J51153
MW-18D	copper, potassium, sodium	J51153, J51494, J51580, and J51673
MW-16S	manganese and potassium	J51889 and J52021
MW-6S	potassium	J52130, J52219, and J52588
MW-23D	iron and potassium	J52669 and J52751
MW-23D-Filt	potassium	J52669 and J52751
MW-6D	potassium and sodium	J52878, J52971, J53104, and J53258
MW-22S-Filt	barium in filtered	J53388, J53483, J53630, J53740, and J53817
H-B-104B	calcium and zinc	J54580 and J54782
HB-101A	cobalt, potassium, and sodium	J55249and J55951

cont'd

Parent Sample	Analytes	Associated SDGs
HB-102C	aluminum, barium, calcium, chromium, cobalt, iron, magnesium, manganese, nickel, potassium, vanadium, and zinc	J56074

The ICP serial dilutions of MW-23D-15-17, LHP-111-0-1, WC-SOIL-011907B, and MW-22S-Total show acceptable correlations.

The following analytes show concentrations higher in the filtered fractions by more than 10%D, and results for those elements have been qualified in both the total and filtered fractions of the indicated samples:

Sample ID	Analytes
MW-17D	cobalt, iron, lead, magnesium, manganese, and sodium
MW-18D	manganese and sodium
MW-16D	calcium, lead, manganese, potassium, sodium
MW-20D	calcium and lead
MW-14D	calcium
MW-14S	sodium
MW-21D	calcium, iron, potassium, sodium
MW-21S	lead and iron
MW-11S	antimony, calcium, iron, lead, magnesium, selenium, and sodium
MW-6D	calcium
MW-7S	potassium
MW-8S	manganese
MW-10S	arsenic
MW-12S	arsenic and manganese
MW-24S	magnesium
MW-15S	barium, nickel, potassium
MW-22S	arsenic

The result for mercury in LHP-125-0.5-2, MW-13S and MW-18S are qualified as estimated, with a low bias, due to low recoveries for the associated low-level CRI standards.

The results for antimony in soils reported in SDG J48211, MW-21S, MW-21D, MW-23S, MW-23D-Filt, and in the field blanks of 11/02/06 and 11/07/06 are qualified as estimated, with a low bias, due to low recoveries for the associated low-level CRI standards.

The result for arsenic in FB111606 is qualified as estimated, with a low bias, due to low recovery in the associated low-level CRI standard.

The results for lead in MW-9S, MW019S, DUP020707, and FB121506 are qualified as estimated, with a low bias, due to low recovery in the associated low-level CRI standards.

The result for thallium in the filtrate of MW-17D is qualified as estimated, with a low bias, due to low recovery in the associated low-level CRI standard.

The results for arsenic and beryllium in MW-24S and MW-15S are qualified as estimated, with a low bias, due to low recovery in the associated low-level CRI standard.

The results for arsenic and antimony in MW-22S and MW-15S (Filt only) are qualified as estimated, with a low bias, due to low recovery in the associated low-level CRI standard.

Detected results for lead in MW-25D, for cadmium in samples reported in J47366, and selenium in MW-11S and MW-11D are qualified as estimated, with a high bias, due to elevated recoveries for the associated low-level CRI standards.

MW-18S was received by the laboratory with incomplete preservation. The sample was preserved at the laboratory. Results are qualified as estimated, and may have a low bias.

Wet Chemistry- Cyanide, Hexavalent Chromium, TOC, Methyl Mercury, Redox Potential (ORP), TSS, pH

Review was conducted for method compliance, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure.

Cyanide recovered below 10% in the matrix spikes of LHP-126-2-4 and LHP-127-3-5. Therefore, the non-detected result for that analyte in the parent samples are rejected, and provide no usable information as to the presence or absence of that analyte. Results for all associated samples (J44803, J44938, J48325, and J48293) are qualified as estimated, and may have a significant low bias.

Hexavalent chromium recovered below 10% in the matrix spikes of MW-6D-12-14, LHP-127-3-5, LHP-105-1-3, MW-20S, MW-14D-Filt, MW-21D-Filt, MW-6D-Filt, MW-10S-Filt, MW-12S-Filt, MW-9S-Filt, and HB-102C. Therefore, the non-detected results for that analyte in the samples in J45854 J48211, J48325, J49409, J51580, J51673, J52021, J52878, J53104, J53258, J53388 and J56074 are rejected, and provide no usable information as to the presence or absence of that analyte. Detected values in those samples are qualified as estimated.

The hexavalent chromium reported result for MW-10S is detection at 10 ug/L. The total chromium result for that sample shows no detection at that level. Because the total chromium analysis is more definitive, it is assumed that the hexachrome detection reflects interferences, and it has therefore been edited to non-detection. Following that edit, the result is rejected due to lack of recovery of the matrix spike of that sample.

Although the hexavalent chromium data are rejected, it can be said that the total chromium values in the samples would represent a maximum potential value for hexavalent chromium.

Field duplicate evaluations were performed on WW-101-15-17, MW-16D-17-19, MW-25D-10-12, LHP-105-0-1, LHP-128-0-1, MW-7S, and MW-19S. Outliers were observed for the following analytes, with resultant qualification as estimated in the specific parent sample and associated duplicate:

- cyanide in WW-101-15-17
- TOC in LHP-105-0-1
- TOC in LHP-128-0-1

The cyanide fraction of MW-18S was received by the laboratory with incomplete preservation. The sample was preserved at the laboratory. The result is qualified as estimated, and may have a low bias.

The following matrix spike/laboratory duplicate evaluations were performed:

- TOC on MW-265-8-10, MW-20D-12-14, MW-23D-15-17, MW-21D-15-17, MW-16D-17-19, LHP-111-0-1, LHP-105-1-3, LHP-127-3-5, MW-11D-16-18, H-B-105C, H-B-104B, H-B-104D, H-B-101A, and HB-102B
- Cyanide on LHP-126-2-4, LHP-125-10-12, WW-101-21-23, MW-6D-12-14, MW-20D-12-14, MW-20D-36-38, MW-14D-13-15, MW-23D-15-17, MW-21D-13-15, MW-16D-17-19, LHP-101-0-1, LHP-105-1-3, LHP-127-3-5, LB-101-0-1, MW-11D-16-18, MW-25D-33-35, MW-17D. MW-17S, MW-18D, MW-20S, MW-14D, MW-14S-Filt, MW-25D, MW-23S, MW-23D, MW-11S, MW-6D, H-B-105C, MW-22S, MW-13S, H-B-103A, H-B-104B, H-B-104D, H-B-101A, HB-102A, and HB-102B
- Hexavalent chromium on MW-6D-12-14, LHP-125-0.5-2, DUP110606, LHP-111-0-1, LHP-127-3-5, LHP-105-1-3, MW-17D-Filt, MW-17S-Filt, MW-18D-Filt, MW-16D, MW-14D-Filt, MW-14S-Filt, MW-21D-Filt, MW-6-Filt, MW-25D, MW-23D, MW-11S, MW-6D-Filt, DUP020107-Filt, MW-10S-Filt, MW-12S-Filt, MW-9S-Filt, MW-22S, MW-13S-Filt, H-B-104B, H-B-104D
- Redox Potential on LHP-125-10-12, LP-101-11-13, MW-14D-13-15, LHP-105-1-3, LHP-127-3-5, MW-11D-16-18, and MW-25D-33-35
- Petroleum hydrocarbon on WC-SOIL-011907B
- Specific Gravity on MW-6D and MW-11D
- TSS on SW-SB-2-22-07-1400
- Methyl mercury on HB-101A

Outlying matrix spike recoveries or duplicate correlations (in addition to the hexavalent chromium and cyanide outliers noted above) are listed below, with qualification of results as estimated in the indicated parent samples:

Parent Sample	Analyte	Associated Samples
MW-265-8-10 TOC		J44803
DUP110606	hexavalent chromium	J45783
MW-6D-12-14	cyanide	J45854
MW-20D-12-14	TOC	J46057
LHP-127-3-5	TOC	J48325
MW-16D	hexavalent chromium	J51494
MW-14S-Filt	hexavalent chromium	J51889
MW-16S-Filt	hexavalent chromium	J52130
MW-25D-Filt	hexavalent chromium	J52219
MW-11S	hexavalent chromium	J52751
DUP020107-Filt	hexavalent chromium	J52971
H-B-105C	TOC	J53484
MW-13S-Filt	hexavalent chromium	J53740
HB-102B	TOC	J56074

Results for TOC in MW-6D-0-2, MW-17D-17-19, MW-16D-13-15, LHP-101-5-8, LHP-120-0-1, H-B-104B, H-B-104C, and nine samples reported in SDG J48325 are qualified as estimated, with unknown bias, due to variance in the result of the replicate determinations.

Data Package Completeness/Chains-of-Custody

Two samples reported in J45239 were submitted and reported with the same client ID (LHP-125). The electronic deliverables distinquishes the two different depths.

Two samples submitted for SDG J45239 were not entered onto the custody form until sample receipt.

The calibration standard sections of the Paradigm data packages are not paginated

Discrepancies in custody entries were resolved at sample receipt. Edits to custodies should have been dated and initialed.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Att: Validation qualifier definitions
Copies of sample client and laboratory identifications

VALIDATION QUALIFIER DEFINITIONS

DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

R2-0004562

CLIENT and LABORATORY SAMPLE IDs

LCP SUPERFUND SITE, LINDEN, NJ

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J44803

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J44803-1	10/26/06	09:12 MC	10/26/06	SO	Soil	MW-265-8-10
J44803-1R	10/26/06	09:12 MC	10/26/06	SO	Soil	MW-265-8-10
J44803-2	10/26/06	15:08 MC	10/26/06	SO	Soil	LHP-126-2-4
J44803-2R	10/26/06	15:08 MC	10/26/06	SO	Soil	LHP-126-2-4
J44803-3	10/26/06	15:17 MC	10/26/06	SO	Soil	LHP-126-8-10
J44803-3R	10/26/06	15:17 MC	10/26/06	SO	Soil	LHP-126-8-10
J44803-4	10/26/06	15:02 MC	10/26/06	AQ	Field Blank Soil	FB102606
J44803-5	10/26/06	15:17 MC	10/26/06	AQ	Trip Blank Soil	TB102606

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@391461 14:35 27-Jul-2007

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J44938

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J44938-1	10/27/06	08:45 MPC	10/27/06	SO	Soil	LHP-125-5-2
J44938-1R	10/27/06	08:45 MPC	10/27/06	SO	Soil	LHP-125-5-2
J44938-1RD	10/27/06	08:45 MPC	10/27/06	SO	Soil Dup/MSD	LHP-125-5-2
J44938-1RS	10/27/06	08:45 MPC	10/27/06	SO	Soil Matrix Spike	LHP-125-5-2
J44938-2	10/27/06	08:53 MPC	10/27/06	SO	Soil	LHP-125-4-6
J44938-2R	10/27/06	08:53 MPC	10/27/06	SO	Soil	LHP-125-4-6
J44938-3	10/27/06	10:32 MPC	10/27/06	SO	Soil	LHP-125-5-2
J44938-3R	10/27/06	10:32 MPC	10/27/06	SO	Soil	LHP-125-5-2
J44938-4	10/27/06	10:43 MPC	10/27/06	SO	Soil	LHP-124-2-4
J44938-4R	10/27/06	10:43 MPC	10/27/06	SO	Soil	LHP-124-2-4
J44938-5	10/27/06	13:15 MPC	10/27/06	SO	Soil	LP-101-8-10
J44938-6	10/27/06	13:50 MPC	10/27/06	AQ	Field Blank Soil	FB-102706
J44938-7	10/27/06	14:30 MPC	10/27/06	SO	Soil	WWT-101-12-14

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J45239

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J45239-1	10/31/06	13:26 JMB	11/01/06	SO	Soil	LHP-124-10-12
J45239-1R	10/31/06	13:26 JMB	11/01/06	SO	Soil	LHP-124-10-12
J45239-2	10/31/06	14:28 JMB	11/01/06	SO	Soil	LHP-124-28-30
J45239-2R	10/31/06	14:28 JMB	11/01/06	SO	Soil	LHP-124-28-30
J45239-3	11/01/06	15:02 JMB	11/01/06	AQ	Field Blank Soil	FB-103106
J45239-4	11/01/06	08:34 JMB	11/01/06	SO	Soil	LHP-125
J45239-4R	11/01/06	08:34 JMB	11/01/06	SO	Soil	LHP-125
J45239-5	11/01/06	08:40 JMB	11/01/06	SO	Soil	LHP-125
J45239-5R	11/01/06	08:40 JMB	11/01/06	SO	Soil	LHP-125
J45239-6	11/01/06	13:10 JMB	11/01/06	AQ	Field Blank Soil	FB110106
J45239-7	11/01/06	13:46 JMB	11/01/06	AQ	Trip Blank Soil	TB110106
J45239-8	11/01/06	13:46 JMB	11/01/06	SO	Soil	LHP-126-14-16
J45239-8R	11/01/06	13:46 JMB	11/01/06	SO	Soil	LHP-126-14-16

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J45527

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J45527-1	11/02/06	09:48 JMB	11/03/06	SO	Soil	LP-101-11-13
J45527-1R	11/02/06	09:48 JMB	11/03/06	SO	Soil	LP-101-11-13
J45527-2	11/02/06	10:10 JMB	11/03/06	SO	Soil	LP-101-14-16
J45527-2R	11/02/06	10:10 JMB	11/03/06	SO	Soil	LP-101-14-16
J45527-3	11/02/06	11:04 JMB	11/03/06	SO	Soil	LP-101-26-28
J45527-3R	11/02/06	11:04 JMB	11/03/06	SO	Soil	LP-101-26-28
J45527-4	11/02/06	15:03 JMB	11/03/06	SO	Soil	LP-101-50-52
J45527-4R	11/02/06	15:03 JMB	11/03/06	SO	Soil	LP-101-50-52
J45527-5	11/03/06	08:12 JMB	11/03/06	AQ	Field Blank Soil	FB-110206
J45527-6	11/03/06	08:12 JMB	11/03/06	AQ	Trip Blank Soil	TB-110206

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J45783

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J45783-1	11/06/06	11:34 MC	11/07/06	SO	Soil	WWT-101-15-17
J45783-1R	11/06/06	11:34 MC	11/07/06	SO	Soil	WWT-101-15-17
J45783-1RD	11/06/06	11:34 MC	11/07/06	SO	Soil	WWT-101-15-17
J45783-1RS	11/06/06	11:34 MC	11/07/06	SO	Soil	WWT-101-15-17
J45783-2	11/06/06	11:50 MC	11/07/06	SO	Soil	WWT-101-21-23
J45783-2R	11/06/06	11:50 MC	11/07/06	SO	Soil	WWT-101-21-23
J45783-3	11/06/06	00:00 MC	11/07/06	SO	Soil	DUP110606
J45783-3R	11/06/06	00:00 MC	11/07/06	SO	Soil	DUP110606
J45783-4	11/07/06	09:30 MC	11/07/06	AQ	Field Blank Soil	FB110706
J45783-5	11/07/06	09:30 MC	11/07/06	AQ	Trip Blank Soil	TB

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@391527 11:28 29-Jul-2007

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J45854

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J45854-1	11/08/06	08:30 MC	11/08/06	SO	Soil	MW-6D-0-2
J45854-1R	11/08/06	08:30 MC	11/08/06	SO	Soil	MW-6D-0-2
J45854-2	11/08/06	12:00 MC	11/08/06	AQ	Field Blank Soil	FB110706
J45854-3	11/08/06	09:18 MC	11/08/06	SO	Soil	MW-6D-12-14
J45854-3D	11/08/06	09:18 MC	11/08/06	SO	Soil Dup/MSD	MW-6D-12-14
J45854-3R	11/08/06	09:18 MC	11/08/06	SO	Soil	MW-6D-12-14
J45854-3RD	11/08/06	09:18 MC	11/08/06	SO	Soil Dup/MSD	MW-6D-12-14
J45854-3RS	11/08/06	09:18 MC	11/08/06	SO	Soil Matrix Spike	MW-6D-12-14
J45854-3S	11/08/06	09:18 MC	11/08/06	SO	Soil Matrix Spike	MW-6D-12-14
J45854-4	11/08/06	12:00 MC	11/08/06	AQ	Trip Blank Soil	TB110706

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J46057

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46057-1	11/09/06	15:00 MPC	11/09/06	AQ	Field Blank Soil	FB-110906
J46057-2	11/09/06	11:15 MPC	11/09/06	SO	Soil	MW-11D-6-8
J46057-3	11/09/06	11:47 MPC	11/09/06	SO	Soil	MW-11D-10-12
J46057-4	11/09/06	15:27 MPC	11/09/06	AQ	Trip Blank Soil	TB-110906
J46057-5	11/09/06	15:27 MPC	11/09/06	SO	Soil	MW-20D-12-14
J46057-5R	11/09/06	15:27 MPC	11/09/06	SO	Soil	MW-20D-12-14

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J46213

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46213-1	11/10/06	08:11 MPC	11/10/06	SO	Soil	MW-20D-32-34
J46213-1R	11/10/06	08:11 MPC	11/10/06	SO	Soil	MW-20D-32-34
J46213-2	11/10/06	08:40 MPC	11/10/06	SO	Soil	MW-20D-36-38
J46213-2R	11/10/06	08:40 MPC	11/10/06	SO	Soil	MW-20D-36-38
J46213-3	11/10/06	13:52 MPC	11/10/06	AQ	Trip Blank Soil	TB-111006
J46213-4	11/10/06	13:45 MPC	11/10/06	AQ	Field Blank Soil	FB-111006
J46213-5	11/10/06	13:50 MPC	11/10/06	SO	Soil	MW-17D-15-17
J46213-5R	11/10/06	13:50 MPC	11/10/06	SO	Soil	MW-17D-15-17
J46213-6	11/10/06	13:52 MPC	11/10/06	SO	Soil	MW-17D-17-19
J46213-6R	11/10/06	13:52 MPC	11/10/06	SO	Soil	MW-17D-17-19

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@391527 11:48 29-Jul-2007

Sample Summary

Brown & Caldwell

Job No: J46443

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46443-1	11/13/06	15:47 THC	11/14/06	SO	Soil	MW-180-13-15
J46443-1R	11/13/06	15:47 THC	11/14/06	SO	Soil	MW-180-13-15
J46443-2	11/13/06	15:43 THC	11/14/06	SO	Soil	MW-180-17-19
J46443-2R	11/13/06	15:43 THC	11/14/06	SO	Soil	MW-180-17-19
J46443-3	11/14/06	08:10 THC	11/14/06	AQ	Field Blank Soil	FB-111306
J46443-4	11/14/06	14:05 THC	11/14/06	AQ	Trip Blank Soil	TB-111306
J46443-5	11/14/06	10:43 THC	11/14/06	AQ	Field Blank Soil	FB-111406
J46443-6	11/14/06	14:05 THC	11/14/06	SO	Soil	MW-14D-13-15
J46443-6R	11/14/06	14:05 THC	11/14/06	SO	Soil	MW-14D-13-15

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J46565

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46565-1	11/15/06	14:50 THC	11/15/06	SO	Soil	MW-23D-15-17
J46565-1R	11/15/06	14:50 THC	11/15/06	SO	Soil	MW-23D-15-17
J46565-2	11/14/06	14:45 THC	11/15/06	SO	Soil	MW-14D-17-19
J46565-2R	11/14/06	14:45 THC	11/15/06	SO	Soil	MW-14D-17-19
J46565-3	11/15/06	10:31 THC	11/15/06	AQ	Field Blank Soil	FB-111506
J46565-4	11/14/06	14:50 THC	11/15/06	AQ	Trip Blank Soil	TB-111506

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

ACCUTEST

Accutest LabLink@391860 18:27 30-Jul-2007

Sample Summary

Brown & Caldwell

Job No: J46700

LCP Superfund Site, Linden, NJ

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46700-1	11/15/06	16:40 THC	11/16/06	SO	Soil	MW-23D-37-39
J46700-1R	11/15/06	16:40 THC	11/16/06	SO	Soil	MW-23D-37-39
J46700-2	11/16/06	09:56 THC	11/16/06	AQ	Field Blank Soil	FB-111606
J46700-3	11/16/06	15:23 THC	11/16/06	AQ	Trip Blank Soil	TB-111606
J46700-4	11/16/06	15:23 THC	11/16/06	SO	Soil	MW-21D-13-15
J46700-4R	11/16/06	15:23 THC	11/16/06	SO	Soil	MW-21D-13-15

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J46853

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46853-1	11/16/06	15:45 THL	11/17/06	SO	Soil	MW-21D-15-17
J46853-1R	11/16/06	15:45 THL	11/17/06	SO	Soil	MW-21D-15-17
J46853-2	11/17/06	10:12 THL	11/17/06	AQ	Field Blank Soil	FB-111706
J46853-3	11/17/06	14:30 THL	11/17/06	SO	Soil	MW-16D-13-15
J46853-3R	11/17/06	14:30 THL	11/17/06	SO	Soil	MW-16D-13-15
J46853-4	11/17/06	14:30 THL	11/17/06	AQ	Trip Blank Soil	TB-111706

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J47004

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J47004-1	11/20/06	11:00 THC	11/20/06	SO	Soil	MW-16D-17-19
J47004-1R	11/20/06	11:00 THC	11/20/06	SO	Soil	MW-16D-17-19
J47004-2	11/20/06	10:30 THC	11/20/06	AQ	Field Blank Soil	FB-112006
J47004-3	11/20/06	15:30 THC	11/20/06	AQ	Trip Blank Soil	TB-112006
J47004-4	11/20/06	15:30 THC	11/20/06	SO	Soil	MW-6D-16-18
J47004-4R	11/20/06	15:30 THC	11/20/06	SO	Soil	MW-6D-16-18
J47004-5	11/20/06	00:00 THC	11/20/06	SO	Soil	DUP112006
J47004-5R	11/20/06	00:00 THC	11/20/06	SO	Soil	DUP112006

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@391930 09:48 31-Jul-2007

Sample Summary

Brown & Caldwell

Job No: J47128

LCP Superfund Site, Linden, NJ

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J47128-1	11/21/06	14:00 THC	11/21/06	AQ	Field Blank Soil	FB-112106
J47128-2	11/21/06	14:00 THC	11/21/06	AQ	Trip Blank Soil	TB-112106
J47128-3	11/21/06	08:20 THC	11/21/06	SO	Soil	MW-6D-30-32
J47128-4	11/21/06	15:26 THC	11/21/06	SO	Soil	MW-25D-10-12
J47128-5	11/21/06	00:00 THC	11/21/06	SO	Soil	DUP112106

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@391930 10:00 31-Jul-2007

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J47366

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J47366-1	11/27/06	14:45 MPC	11/27/06	AQ	Ground Water	LCP-PW112706
J47366-2	11/27/06	12:00 MPC	11/27/06	SO	Soil	LCP-231-SS112706

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J48098

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48098-1	12/04/06	09:15 MPC	12/04/06	SO	Soil	LHP-101-0-1
J48098-2	12/04/06	09:25 MPC	12/04/06	SO	Soil	LHP-101-5-8
J48098-3	12/04/06	10:12 MPC	12/04/06	SO	Soil	LHP-110-0-1
J48098-4	12/04/06	10:32 MPC	12/04/06	SO	Soil	LHP-111-0-1
J48098-5	12/04/06	10:24 MPC	12/04/06	SO	Soil	LHP-112-0-1
J48098-6	12/04/06	10:40 MPC	12/04/06	SO	Soil	LHP-113-0-1
J48098-7	12/04/06	10:52 MPC	12/04/06	SO	Soil	LHP-114-0-1
J48098-8	12/04/06	11:25 MPC	12/04/06	SO	Soil	LHP-115-0-1
J48098-9	12/04/06	11:06 MPC	12/04/06	SO	Soil	LHP-116-0-1
J48098-10	12/04/06	11:16 MPC	12/04/06	SO	Soil	LHP-117-0-1
J48098-11	12/04/06	13:50 MPC	12/04/06	SO	Soil	TES-2-0-1
J48098-12	12/04/06	14:15 MPC	12/04/06	SO	Soil	TES-3-0-1
J48098-13	12/04/06	14:35 MPC	12/04/06	SO	Soil	230-B-101-0-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@392028 12:33 31-Jul-2007

Sample Summary
(continued)

Brown & Caldwell

Job No: J48098

LCP Superfund Site, Linden, NJ

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48098-14	12/04/06	14:50 MPC	12/04/06	SO	Soil	DSP-101-0-1
J48098-15	12/04/06	15:05 MPC	12/04/06	SO	Soil	LHP-123-0-1
J48098-16	12/04/06	15:25 MPC	12/04/06	SO	Soil	LHP-106-1-3
J48098-17	12/04/06	15:25 MPC	12/04/06	SO	Soil	LHP-106-0-1
J48098-18	12/04/06	09:55 MPC	12/04/06	SO	Soil	LHP-118-0-1
J48098-19	12/04/06	09:46 MPC	12/04/06	SO	Soil	LHP-119-0-1
J48098-20	12/04/06	09:05 MPC	12/04/06	SO	Soil	LHP-120-0-1
J48098-21	12/04/06	13:02 MPC	12/04/06	SO	Soil	LHP-102-0-1
J48098-22	12/04/06	13:55 MPC	12/04/06	SO	Soil	237-102-0-1
J48098-23	12/04/06	14:08 MPC	12/04/06	AQ	Field Blank Soil	FB-120406
J48098-24	12/04/06	15:25 MPC	12/04/06	AQ	Trip Blank Soil	TB-120406

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@392019 12:05 31-Jul-2007

Sample Summary

Brown & Caldwell

Job No: J48211

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48211-1	12/05/06	08:28 MPC	12/05/06	SO	Soil	LHP-107-0-1
J48211-1R	12/05/06	08:28 MPC	12/05/06	SO	Soil	LHP-107-0-1
J48211-2	12/05/06	08:31 MPC	12/05/06	SO	Soil	LHP-107-5-7
J48211-2R	12/05/06	08:31 MPC	12/05/06	SO	Soil	LHP-107-5-7
J48211-3	12/05/06	08:46 MPC	12/05/06	SO	Soil	LHP-105-0-1
J48211-3R	12/05/06	08:46 MPC	12/05/06	SO	Soil	LHP-105-0-1
J48211-4	12/05/06	08:50 MPC	12/05/06	SO	Soil	LHP-105-13-1
J48211-4D	12/05/06	08:50 MPC	12/05/06	SO	Soil Dup/MSD	LHP-105-13-1
J48211-4DR	12/05/06	08:50 MPC	12/05/06	SO	Soil Dup/MSD	LHP-105-13-1
J48211-4R	12/05/06	08:50 MPC	12/05/06	SO	Soil	LHP-105-13-1
J48211-4S	12/05/06	08:50 MPC	12/05/06	SO	Soil Matrix Spike	LHP-105-13-1
J48211-4SR	12/05/06	08:50 MPC	12/05/06	SO	Soil Matrix Spike	LHP-105-13-1
J48211-5	12/05/06	09:28 MPC	12/05/06	SO	Soil	LHP-104-0-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Brown & Caldwell

Job No: J48211

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48211-5R	12/05/06	09:28 MPC	12/05/06	SO	Soil	LHP-104-0-1
J48211-6	12/05/06	09:31 MPC	12/05/06	SO	Soil	LHP-104-7-9
J48211-6R	12/05/06	09:31 MPC	12/05/06	SO	Soil	LHP-104-7-9
J48211-7	12/05/06	10:25 MPC	12/05/06	SO	Soil	TES-4-0-1
J48211-8	12/05/06	10:41 MPC	12/05/06	SO	Soil	LHP-102-0-1
J48211-8R	12/05/06	10:41 MPC	12/05/06	SO	Soil	LHP-102-0-1
J48211-9	12/05/06	10:49 MPC	12/05/06	SO	Soil	LHP-102-7-9
J48211-9R	12/05/06	10:49 MPC	12/05/06	SO	Soil	LHP-102-7-9
J48211-10	12/05/06	11:20 MPC	12/05/06	SO	Soil	ADS-101-0-1
J48211-10R	12/05/06	11:20 MPC	12/05/06	SO	Soil	ADS-101-0-1
J48211-11	12/05/06	11:20 MPC	12/05/06	SO	Soil	ADS-101-1-3
J48211-11R	12/05/06	11:20 MPC	12/05/06	SO	Soil	ADS-101-1-3
J48211-12	12/05/06	11:36 MPC	12/05/06	SO	Soil	ADS-102-0-1.5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Brown & Caldwell

Job No: J48211

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48211-12R	12/05/06	11:36 MPC	12/05/06	SO	Soil	ADS-102-0-1.5
J48211-13	12/05/06	13:55 MPC	12/05/06	SO	Soil	LHP-103-0-1
J48211-13R	12/05/06	13:55 MPC	12/05/06	SO	Soil	LHP-103-0-1
J48211-14	12/05/06	13:55 MPC	12/05/06	SO	Soil	LHP-103-1-3
J48211-14R	12/05/06	13:55 MPC	12/05/06	SO	Soil	LHP-103-1-3
J48211-15	12/05/06	11:43 MPC	12/05/06	SO	Soil	ADS-102-7-8
J48211-15R	12/05/06	11:43 MPC	12/05/06	SO	Soil	ADS-102-7-8
J48211-16	12/05/06	15:10 MPC	12/05/06	AQ	Field Blank Soil	FB-120506
J48211-17	12/05/06	15:10 MPC	12/05/06	AQ	Trip Blank Soil	TB-120506
J48211-18	12/05/06	00:00 MPC	12/05/06	SO	Soil	DUP-120506
J48211-18R	12/05/06	00:00 MPC	12/05/06	SO	Soil	DUP-120506

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J48325

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48325-1	12/06/06	10:26 MPC	12/06/06	SO	Soil	LHP-109-7-9
J48325-1D	12/06/06	10:26 MPC	12/06/06	SO	Soil	LHP-109-7-9
J48325-1R	12/06/06	10:26 MPC	12/06/06	SO	Soil	LHP-109-7-9
J48325-1S	12/06/06	10:26 MPC	12/06/06	SO	Soil	LHP-109-7-9
J48325-2	12/06/06	10:50 MPC	12/06/06	SO	Soil	LHP-121-0-1
J48325-2D	12/06/06	10:50 MPC	12/06/06	SO	Soil	LHP-121-0-1
J48325-2R	12/06/06	10:50 MPC	12/06/06	SO	Soil	LHP-121-0-1
J48325-2S	12/06/06	10:50 MPC	12/06/06	SO	Soil	LHP-121-0-1
J48325-3	12/06/06	12:17 MPC	12/06/06	SO	Soil	231-101-0-1
J48325-4	12/06/06	13:25 MPC	12/06/06	SO	Soil	BSL-101-0-1
J48325-5	12/05/06	16:07 MPC	12/06/06	SO	Soil	TES-1-0-1
J48325-6	12/06/06	14:22 MPC	12/06/06	SO	Soil	LHP-102-7-9
J48325-7	12/06/06	14:35 MPC	12/06/06	SO	Soil	ADS-102-7-8

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J48325

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48325-8	12/06/06	11:44 MPC	12/06/06	AQ	Field Blank Soil	FB-120606
J48325-9	12/06/06	15:14 MPC	12/06/06	AQ	Trip Blank Soil	TB-120606
J48325-10	12/06/06	14:48 MPC	12/06/06	SO	Soil	LHP-127-0-1
J48325-10R	12/06/06	14:48 MPC	12/06/06	SO	Soil	LHP-127-0-1
J48325-11	12/06/06	08:25 MPC	12/06/06	SO	Soil	LB-101-0-1
J48325-11R	12/06/06	08:25 MPC	12/06/06	SO	Soil	LB-101-0-1
J48325-12	12/06/06	08:25 MPC	12/06/06	SO	Soil	LB-101-1-3
J48325-12R	12/06/06	08:25 MPC	12/06/06	SO	Soil	LB-101-1-3
J48325-13	12/06/06	08:54 MPC	12/06/06	SO	Soil	LB-102-0-1
J48325-13R	12/06/06	08:54 MPC	12/06/06	SO	Soil	LB-102-0-1
J48325-14	12/06/06	08:54 MPC	12/06/06	SO	Soil	LB-102-1-3
J48325-14R	12/06/06	08:54 MPC	12/06/06	SO	Soil	LB-102-1-3
J48325-15	12/06/06	09:20 MPC	12/06/06	SO	Soil	LB-103-0-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J48325

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48325-15D	12/06/06	09:20 MPC	12/06/06	SO	Soil	LB-103-0-1
J48325-15R	12/06/06	09:20 MPC	12/06/06	SO	Soil	LB-103-0-1
J48325-15S	12/06/06	09:20 MPC	12/06/06	SO	Soil	LB-103-0-1
J48325-16	12/06/06	09:25 MPC	12/06/06	SO	Soil	LB-103-5-7
J48325-16R	12/06/06	09:25 MPC	12/06/06	SO	Soil	LB-103-5-7
J48325-17	12/06/06	09:53 MPC	12/06/06	SO	Soil	LHP-108-0-1
J48325-17R	12/06/06	09:53 MPC	12/06/06	SO	Soil	LHP-108-0-1
J48325-18	12/06/06	09:56 MPC	12/06/06	SO	Soil	LHP-108-3-7
J48325-18R	12/06/06	09:56 MPC	12/06/06	SO	Soil	LHP-108-3-7
J48325-19	12/06/06	10:08 MPC	12/06/06	SO	Soil	LHP-122-0-1
J48325-19R	12/06/06	10:08 MPC	12/06/06	SO	Soil	LHP-122-0-1
J48325-20	12/06/06	10:15 MPC	12/06/06	SO	Soil	LHP-109-0-1
J48325-20R	12/06/06	10:15 MPC	12/06/06	SO	Soil	LHP-109-0-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@394207 10:17 12-Aug-2007

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J49293

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J49293-1	12/14/06	14:00 CED	12/14/06	SO	Soil	MW-11D-12-14
J49293-1R	12/14/06	14:00 CED	12/14/06	SO	Soil	MW-11D-12-14
J49293-2	12/14/06	15:09 CED	12/14/06	AQ	Field Blank Soil	FB-121406
J49293-3	12/14/06	15:09 CED	12/14/06	AQ	Trip Blank Soil	TB-121406

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J49409

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J49409-1	12/14/06	14:15 TC	12/15/06	SO	Soil	MW-110-14-16
J49409-1R	12/14/06	14:15 TC	12/15/06	SO	Soil	MW-110-14-16
J49409-2	12/14/06	14:38 TC	12/15/06	SO	Soil	MW-11D-16-18
J49409-2D	12/14/06	14:38 TC	12/15/06	SO	Soil Dup/MSD	MW-11D-16-18
J49409-2R	12/14/06	14:38 TC	12/15/06	SO	Soil	MW-11D-16-18
J49409-2S	12/14/06	14:38 TC	12/15/06	SO	Soil Matrix Spike	MW-11D-16-18
J49409-3	12/15/06	13:50 TC	12/15/06	AQ	Trip Blank Soil	TB-121506
J49409-4	12/15/06	13:50 TC	12/15/06	AQ	Field Blank Soil	FB-121506

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J49451

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J49451-1	12/15/06	11:15	SS	12/15/06	AQ	Water	TPS-1

Sample Summary

Brown & Caldwell

Job No: J49611

LCP Superfund Site, Linden, NJ
Project No: Phase II RI

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J49611-1	12/18/06	10:15 THC	12/18/06	SO	Soil	MW-25D-33-35
J49611-1R	12/18/06	10:15 THC	12/18/06	SO	Soil	MW-25D-33-35
J49611-2	12/18/06	13:45 THC	12/18/06	AQ	Field Blank Soil	FB-121806
J49611-3	12/18/06	13:45 THC	12/18/06	AQ	Trip Blank Soil	TB-121806

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@394207 11:32 12-Aug-2007

Sample Summary

Brown & Caldwell

Job No: J51040

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51040-1	01/09/07	14:00 PKS	01/09/07	AQ	Ground Water	MW17D
J51040-1F	01/09/07	14:00 PKS	01/09/07	AQ	Groundwater Filtered	MW17D
J51040-2	01/09/07	00:00 PKS	01/09/07	AQ	Field Blank Water	FB 1/9/07

Sample Summary

Brown & Caldwell

Job No: J51153

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51153-1	01/10/07	11:45 CJL	01/10/07	AQ	Ground Water	MW17S
J51153-1F	01/10/07	11:45 CJL	01/10/07	AQ	Groundwater Filtered	MW17S
J51153-2	01/10/07	14:30 CJL	01/10/07	AQ	Field Blank Water	FB1/10/07

Sample Summary

Brown & Caldwell

Job No: J51393

LCP Superfund Site, Linden, NJ
Project No: 131369-105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51393-1	01/12/07	12:25 PKS	01/12/07	AQ	Ground Water	MW18D
J51393-1F	01/12/07	12:25 PKS	01/12/07	AQ	Groundwater Filtered	MW18D
J51393-2	01/12/07	17:50 PKS	01/12/07	AQ	Field Blank Water	FB

Accutest LabLink@395528 13:19 18-Aug-2007

Sample Summary

Brown & Caldwell

Job No: J51494

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51494-1	01/15/07	11:30 PKS	01/15/07	AQ	Ground Water	MW16D
J51494-1F	01/15/07	11:30 PKS	01/15/07	AQ	Groundwater Filtered	MW16D
J51494-2	01/15/07	16:15 PKS	01/15/07	AQ	Field Blank Water	FB 1/15/07

Accutest LabLink@395528 13:23 18-Aug-2007

Sample Summary

Brown & Caldwell

Job No: J51580

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51580-1	01/16/07	10:30 PKS	01/16/07	AQ	Ground Water	MW20D
J51580-1F	01/16/07	10:30 PKS	01/16/07	AQ	Groundwater Filtered	MW20D
J51580-2	01/16/07	14:30 PKS	01/16/07	AQ	Ground Water	MW20S
J51580-2F	01/16/07	14:30 PKS	01/16/07	AQ	Groundwater Filtered	MW20S
J51580-3	01/16/07	16:00 PKS	01/16/07	AQ	Field Blank Water	FB 1/16/07

Accutest LabLink@395528 13:38 18-Aug-2007

Sample Summary

Brown & Caldwell

Job No: J51673

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51673-1	01/17/07	10:35 PKS	01/17/07	AQ	Ground Water	MW14D
J51673-1F	01/17/07	10:35 PKS	01/17/07	AQ	Groundwater Filtered	MW14D-FILTERED
J51673-2	01/17/07	12:40 PKS	01/17/07	AQ	Field Blank Water	FB1/17/07

Sample Summary

Brown & Caldwell

Job No: J51889

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51889-1	01/18/07	11:40 PKS	01/18/07	AQ	Ground Water	MW14S
J51889-1F	01/18/07	11:40 PKS	01/18/07	AQ	Groundwater Filtered	MW14S-FILTERED
J51889-2	01/18/07	15:55 PKS	01/18/07	AQ	Field Blank Water	FB 1/18/07
J51889-3	01/18/07	14:55 PKS	01/18/07	AQ	Ground Water	MW16S
J51889-3F	01/18/07	14:55 PKS	01/18/07	AQ	Groundwater Filtered	MW16S-FILTERED

Sample Summary

Brown & Caldwell

Job No: J52021

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52021-1	01/19/07	12:05 TC	01/19/07	AQ	Ground Water	MW-21D
J52021-2	01/19/07	15:35 TC	01/19/07	AQ	Ground Water	MW-21S
J52021-3	01/19/07	13:50 TC	01/19/07	AQ	Field Blank Water	FB011907
J52021-5F	01/19/07	13:15 TC	01/19/07	AQ	Groundwater Filtered	MW-21D-F
J52021-6F	01/19/07	16:02 TC	01/19/07	AQ	Groundwater Filtered	MW-21S-F

Sample Summary

Brown & Caldwell

Job No: J52027

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52027-1	01/19/07	10:49 CL	01/19/07	SO	Soil	WCSOIL011907B
J52027-2	01/19/07	10:20 CL	01/19/07	SO	Soil	WCSOIL011907A

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

Job No: J52130

LCP Superfund Site, Linden, NJ
Project No: Proj# 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52130-1	01/22/07	11:10 PKS	01/22/07	AQ	Ground Water	MW6S
J52130-1F	01/22/07	11:10 PKS	01/22/07	AQ	Groundwater Filtered	MW6S-FILTERED
J52130-2	01/22/07	12:35 PKS	01/22/07	AQ	Field Blank Water	FB 1/22/07

Sample Summary

Brown & Caldwell

Job No: J52219

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52219-1	01/23/07	12:20 PKS	01/23/07	AQ	Ground Water	MW25D
J52219-1F	01/23/07	12:20 PKS	01/23/07	AQ	Groundwater Filtered	MW25D-FILTERED
J52219-2	01/23/07	15:00 PKS	01/23/07	AQ	Field Blank Water	FB1/23/07
J52219-2F	01/23/07	15:00 PKS	01/23/07	AQ	Field Blank Filtered	FB1/23/07-FILTERED

Sample Summary

Brown & Caldwell

Job No: J52588

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52588-1	01/26/07	14:42 THC	01/26/07	AQ	Ground Water	MW-23S
J52588-2	01/26/07	16:18 THC	01/26/07	AQ	Groundwater Filtered	MW-23S-F

Sample Summary

Brown & Caldwell

Job No: J52669

LCP Superfund Site, Linden, NJ
Project No: Proj#:131369.105 PO#:131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52669-1	01/29/07	12:15 MDW	01/29/07	AQ	Ground Water	MW-23D
J52669-1D	01/29/07	12:15 MDW	01/29/07	AQ	Water Dup/MSD	MW-23D
J52669-1F	01/29/07	12:15 MDW	01/29/07	AQ	Groundwater Filtered	MW-23D
J52669-1FD	01/29/07	12:15 MDW	01/29/07	AQ	Water Dup/MSD	MW-23D
J52669-1FS	01/29/07	12:15 MDW	01/29/07	AQ	Water Matrix Spike	MW-23D
J52669-1S	01/29/07	12:15 MDW	01/29/07	AQ	Water Matrix Spike	MW-23D
J52669-2	01/29/07	16:55 MDW	01/29/07	AQ	Field Blank Water	FB012907
J52669-2F	01/29/07	16:55 MDW	01/29/07	AQ	Field Blank Filtered	FB012907

Sample Summary

Brown & Caldwell

Job No: J52751

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52751-1	01/30/07	10:05 MDW	01/30/07	AQ	Ground Water	MW-11S
J52751-1F	01/30/07	10:05 MDW	01/30/07	AQ	Groundwater Filtered	MW-11S
J52751-2	01/30/07	14:15 MDW	01/30/07	AQ	Ground Water	MW-11D
J52751-2F	01/30/07	14:15 MDW	01/30/07	AQ	Groundwater Filtered	MW-11D
J52751-3	01/30/07	14:15 MDW	01/30/07	AQ	Trip Blank Water	TB013007

Sample Summary

Brown & Caldwell

Job No: J52878

LCP Superfund Site, Linden, NJ
Project No: PO#:131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52878-1	01/31/07	09:00 MW	01/31/07	AQ	Field Blank Water	FB013107
J52878-1F	01/31/07	09:00 MW	01/31/07	AQ	Field Blank Filtered	FB013107
J52878-2	01/31/07	13:20 MW	01/31/07	AQ	Ground Water	MW-6D
J52878-2F	01/31/07	13:20 MW	01/31/07	AQ	Groundwater Filtered	MW-6D
J52878-3	01/31/07	13:20 MW	01/31/07	AQ	Trip Blank Water	TB013107

Sample Summary

Brown & Caldwell

Job No: J52971

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52971-1	02/01/07	13:30 MDW	02/01/07	AQ	Trip Blank Water	TB020107
J52971-2	02/01/07	08:45 MDW	02/01/07	AQ	Field Blank Water	FB020107
J52971-3	02/01/07	13:30 MDW	02/01/07	AQ	Ground Water	MW-7S
J52971-3F	02/01/07	13:30 MDW	02/01/07	AQ	Groundwater Filtered	MW-7S
J52971-4	02/01/07	00:00 MDW	02/01/07	AQ	Ground Water	DUP020107
J52971-4F	02/01/07	00:00 MDW	02/01/07	AQ	Groundwater Filtered	DUP020107

Sample Summary

Brown & Caldwell

Job No: J53104

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53104-1	02/02/07	14:10 MDW	02/02/07	AQ	Trip Blank Water	TB020207
J53104-2	02/02/07	08:05 MDW	02/02/07	AQ	Field Blank Water	FB020207
J53104-3	02/02/07	11:30 MDW	02/02/07	AQ	Ground Water	MW-8S
J53104-3F	02/02/07	11:30 MDW	02/02/07	AQ	Groundwater Filtered	MW-8S
J53104-4	02/02/07	14:10 MDW	02/02/07	AQ	Ground Water	MW-10S
J53104-4F	02/02/07	14:10 MDW	02/02/07	AQ	Groundwater Filtered	MW-10S

Accutest Laboratories

Sample Summary

Brown & Caldwell

Job No: J53258

LCP Superfund Site, Linden, NJ
Project No: PO#:131369-105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53258-1	02/06/07	09:00 MMR	02/06/07	AQ	Field Blank Water	FB020607
J53258-2	02/06/07	12:00 MMR	02/06/07	AQ	Ground Water	MW-12S
J53258-2F	02/06/07	12:00 MMR	02/06/07	AQ	Groundwater Filtered	MW-12SF

Sample Summary

Brown & Caldwell

Job No: J53388

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53388-1	02/07/07	07:30 MMR	02/07/07	AQ	Field Blank Water	FB020707
J53388-2	02/07/07	11:00 MMR	02/07/07	AQ	Ground Water	MW-9S
J53388-2F	02/07/07	11:00 MMR	02/07/07	AQ	Groundwater Filtered	MW-9S
J53388-3	02/07/07	14:15 MMR	02/07/07	AQ	Ground Water	MW-19S
J53388-3F	02/07/07	14:15 MMR	02/07/07	AQ	Groundwater Filtered	MW-19S
J53388-4	02/07/07	00:00 MMR	02/07/07	AQ	Ground Water	DUP020707
J53388-4F	02/07/07	00:00 MMR	02/07/07	AQ	Groundwater Filtered	DUP020707
J53388-5	02/07/07	14:15 MMR	02/07/07	AQ	Trip Blank Water	TB020707

Sample Summary

Brown & Caldwell

Job No: J53483

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53483-1	02/08/07	07:30 MMR	02/08/07	AQ	Field Blank Water	FB020807
J53483-2	02/08/07	10:30 MMR	02/08/07	AQ	Ground Water	MW-24S
J53483-2F	02/08/07	10:30 MMR	02/08/07	AQ	Groundwater Filtered	MW-24S
J53483-3	02/08/07	14:00 MMR	02/08/07	AQ	Trip Blank Water	TB020807
J53483-4	02/08/07	14:00 MMR	02/08/07	AQ	Ground Water	MW-15S

Accutest LabLink@398583 16:13 05-Sep-2007

Sample Summary

Brown & Caldwell

Job No: J53484

LCP Superfund Site, Linden, NJ
Project No: 131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53484-1	02/08/07	09:45 CJM	02/08/07	SO	Soil	H-B-105C
J53484-2	02/08/07	12:10 CJM	02/08/07	SO	Soil	H-B-105D
J53484-3	02/08/07	15:30 CJM	02/08/07	AQ	Field Blank Soil	FB020807-A
J53484-4	02/08/07	16:15 CJM	02/08/07	AQ	Trip Blank Soil	TB020807-A
J53484-5	02/08/07	16:15 CJM	02/08/07	SO	Soil	H-B-105E

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@398583 16:23 05-Sep-2007

Sample Summary

Brown & Caldwell

Job No: J53630

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53630-1	02/09/07	08:00 MMR	02/09/07	AQ	Field Blank Water	FB020907
J53630-2	02/09/07	10:25 MMR	02/09/07	AQ	Ground Water	MW-22S
J53630-2D	02/09/07	10:25 MMR	02/09/07	AQ	Water Dup/MSD	MW-22S-MSD
J53630-2F	02/09/07	10:25 MMR	02/09/07	AQ	Groundwater Filtered	MW-22S
J53630-2FD	02/09/07	10:25 MMR	02/09/07	AQ	Water Dup/MSD	MW-22S-MSD
J53630-2FS	02/09/07	10:25 MMR	02/09/07	AQ	Water Matrix Spike	MW-22S-MS
J53630-2S	02/09/07	10:25 MMR	02/09/07	AQ	Water Matrix Spike	MW-22S-MS
J53630-3	02/09/07	12:20 MMR	02/09/07	AQ	Ground Water	MW-15S
J53630-3F	02/09/07	12:20 MMR	02/09/07	AQ	Groundwater Filtered	MW-15S

Sample Summary

Brown & Caldwell

Job No: J53740

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53740-1	02/12/07	08:00 CM	02/12/07	AQ	Field Blank Water	FB021207
J53740-2	02/12/07	11:40 CM	02/12/07	AQ	Ground Water	MW-13S
J53740-2F	02/12/07	11:40 CM	02/12/07	AQ	Groundwater Filtered	MW-13S
J53740-3	02/12/07	14:40 CM	02/12/07	AQ	Ground Water	MW-18S
J53740-3F	02/12/07	14:40 CM	02/12/07	AQ	Groundwater Filtered	MW-18S
J53740-4	02/12/07	14:40 CM	02/12/07	AQ	Trip Blank Water	TB021207

Sample Summary

Brown & Caldwell

Job No: J53817

LCP Superfund Site, Linden, NJ
Project No: PO#:131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53817-1	02/13/07	11:21 CM	02/13/07	AQ	Ground Water	MW-6D
J53817-2	02/13/07	11:53 CM	02/13/07	AQ	Ground Water	MW-21D
J53817-3	02/13/07	12:05 CM	02/13/07	AQ	Ground Water	MW-11D
J53817-4	02/13/07	12:14 CM	02/13/07	AQ	Ground Water	MW-14D
J53817-5	02/13/07	12:17 CM	02/13/07	AQ	Ground Water	MW-20D
J53817-6	02/13/07	12:22 CM	02/13/07	AQ	Ground Water	MW-17D
J53817-7	02/13/07	12:26 CM	02/13/07	AQ	Ground Water	MW-18D
J53817-8	02/13/07	12:31 CM	02/13/07	AQ	Ground Water	MW-16D
J53817-9	02/13/07	07:50 CM	02/13/07	AQ	Ground Water	MW-26D
J53817-10	02/13/07	14:30 CM	02/13/07	AQ	Ground Water	MW-25D
J53817-11	02/12/07	15:40 CM	02/13/07	AQ	Ground Water	MW-26S

Sample Summary

Brown & Caldwell

Job No: J54238

LCP Superfund Site, Linden, NJ
Project No: 131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54238-1	02/20/07	14:15 CJM	02/20/07	SO	Soil	H-B-103A
J54238-2	02/20/07	16:30 CJM	02/20/07	AQ	Field Blank Soil	FB022007
J54238-3	02/20/07	16:30 CJM	02/20/07	AQ	Trip Blank Soil	TB02207

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

Job No: J54435

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54435-1	02/22/07	14:25 THC	02/22/07	AQ	Surface Water	SW-VB-2-22-07-1400
J54435-1F	02/22/07	14:27 THC	02/22/07	AQ	Surface H2O Filtered	SW-VB-2-22-07-1400-F
J54435-2	02/22/07	16:00 THC	02/22/07	AQ	Surface Water	SW-VB-2-22-07-1600
J54435-2F	02/22/07	16:05 THC	02/22/07	AQ	Surface H2O Filtered	SW-VB-2-22-07-1600-F

Accutest LabLink@390551 17:31 23-Jul-2007

Sample Summary

Brown & Caldwell

Job No: J54580

LCP Superfund Site, Linden, NJ
Project No: PO#: 131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54580-1	02/23/07	08:45 CJM	02/23/07	SO	Soil	H-B-104A
J54580-2	02/23/07	12:05 CJM	02/23/07	SO	Soil	H-B-104B
J54580-3	02/23/07	16:00 CJM	02/23/07	SO	Soil	H-B-104C
J54580-4	02/23/07	13:00 CJM	02/23/07	AQ	Field Blank Soil	FB022307
J54580-5	02/23/07	16:00 CJM	02/23/07	AQ	Trip Blank Soil	TB022307

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J54581

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54581-1	02/23/07	07:02 TCH	02/23/07	AQ	Surface Water	SW-VB-02-23-07-0700
J54581-2	02/23/07	09:00 TCH	02/23/07	AQ	Surface Water	SW-VB-02-23-07-0900
J54581-3F	02/23/07	07:10 TCH	02/23/07	AQ	Surface H2O Filtered	SW-VB-02-23-07-0700-F
J54581-4F	02/23/07	09:05 TCH	02/23/07	AQ	Surface H2O Filtered	SW-VB-02-23-07-0900-F
J54581-5F	02/23/07	11:03 TCH	02/23/07	AQ	Surface H2O Filtered	SW-VB-02-23-07-1100-F
J54581-6	02/23/07	11:08 TCH	02/23/07	AQ	Surface Water	SW-VB-02-23-07-1100
J54581-7	02/23/07	13:00 TCH	02/23/07	AQ	Surface Water	SW-VB-02-23-07-1300
J54581-8F	02/23/07	13:08 TCH	02/23/07	AQ	Surface H2O Filtered	SW-VB-02-23-07-1300-F
J54581-9	02/23/07	15:00 TCH	02/23/07	AQ	Surface Water	SW-VB-02-23-07-1500
J54581-10F	02/23/07	15:06 TCH	02/23/07	AQ	Surface H2O Filtered	SW-VB-02-23-07-1500-F
J54581-11F	02/23/07	00:00 TCH	02/23/07	AQ	Surface H2O Filtered	DUP022307
J54581-12	02/23/07	14:50 TCH	02/23/07	AQ	Field Blank Water	FB022307

Accutest LabLink@398583 16:36 05-Sep-2007

Sample Summary

Brown & Caldwell

Job No: J54589

LCP Superfund Site, Linden, NJ
Project No: Proj#: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54589-1	02/22/07	17:20 THC	02/23/07	AQ	Surface Water	SW-ERRT
J54589-2F	02/22/07	17:23 THC	02/23/07	AQ	Surface H2O Filtered	SW-ERRT-F
J54589-3F	02/22/07	17:37 THC	02/23/07	AQ	Surface H2O Filtered	SW-WRRT-F
J54589-4	02/22/07	17:27 THC	02/23/07	AQ	Surface Water	SW-WRRT
J54589-5	02/23/07	17:00 THC	02/23/07	AQ	Surface Water	SW-VB-2-23-07-1700
J54589-6F	02/23/07	17:08 THC	02/23/07	AQ	Surface H2O Filtered	SW-VB-2-23-07-1700-F
J54589-7	02/23/07	19:00 THC	02/23/07	AQ	Surface Water	SW-VB-2-23-07-1900
J54589-8F	02/23/07	19:06 THC	02/23/07	AQ	Surface H2O Filtered	SW-VB-2-23-07-1900-F
J54589-9	02/22/07	18:00 THC	02/23/07	AQ	Surface Water	SW-VB-2-22-07-1800
J54589-10F	02/22/07	18:05 THC	02/23/07	AQ	Surface H2O Filtered	SW-VB-2-22-07-1800-F

Sample Summary

Brown & Caldwell

Job No: J54782

LCP Superfund Site, Linden, NJ
Project No: PO#:131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54782-1	02/27/07	12:15 CJM	02/27/07	SO	Soil	H-B-104D
J54782-2	02/27/07	12:55 CJM	02/27/07	AQ	Field Blank Soil	FB022707
J54782-3	02/27/07	16:40 CJM	02/27/07	AQ	Trip Blank Soil	TB022707
J54782-4	02/27/07	16:40 CJM	02/27/07	SO	Soil	H-B-104E

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@390550 17:26 23-Jul-2007

Sample Summary

Brown & Caldwell

Job No: J55249

LCP Superfund Site, Linden, NJ
Project No: 131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J55249-1	03/05/07	14:35 THC	03/05/07	SO	Soil	HB-101A
J55249-1R	03/05/07	14:35 THC	03/05/07	SO	Soil	HB-101A
J55249-2	03/05/07	16:05 THC	03/05/07	AQ	Field Blank Soil	FB030507
J55249-3	03/05/07	16:05 THC	03/05/07	AQ	Trip Blank Soil	TB030507

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

Job No: J55951

LCP Superfund Site, Linden, NJ
Project No: 131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J55951-1	03/13/07	14:40 AG	03/13/07	SO	Soil	HB-102A
J55951-1R	03/13/07	14:40 AG	03/13/07	SO	Soil	HB-102A
J55951-2	03/13/07	15:30 AG	03/13/07	AQ	Field Blank Soil	FB031307

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

Job No: J56074

LCP Superfund Site, Linden, NJ
Project No: PO#131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J56074-1	03/14/07	12:15 AG	03/14/07	SO	Soil	HB-102B
J56074-1R	03/14/07	12:15 AG	03/14/07	SO	Soil	HB-102B
J56074-2	03/14/07	12:30 AG	03/14/07	AQ	Field Blank Soil	FB031407
J56074-3	03/14/07	17:00 AG	03/14/07	SO	Soil	HB-102C
J56074-3R	03/14/07	17:00 AG	03/14/07	SO	Soil	HB-102C
J56074-3RD	03/14/07	17:00 AG	03/14/07	SO	Soil Dup/MSD	HB-102C
J56074-3RS	03/14/07	17:00 AG	03/14/07	SO	Soil Matrix Spike	HB-102C

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

Job No: J57403

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J57403-1	03/30/07	13:56 BR	03/30/07	AQ	Ground Water	MW-11D
J57403-2	03/30/07	14:05 BR	03/30/07	AQ	Ground Water	MW-14D
J57403-3	03/30/07	14:10 BR	03/30/07	AQ	Ground Water	MW-20D
J57403-4	03/30/07	14:15 BR	03/30/07	AQ	Ground Water	MW-17D
J57403-5	03/30/07	14:21 BR	03/30/07	AQ	Ground Water	MW-18D
J57403-6	03/30/07	14:25 BR	03/30/07	AQ	Ground Water	MW-23D
J57403-7	03/30/07	14:30 BR	03/30/07	AQ	Ground Water	MW-16D
J57403-8	03/30/07	14:36 BR	03/30/07	AQ	Ground Water	MW-21D
J57403-9	03/30/07	14:43 BR	03/30/07	AQ	Ground Water	MW-6D
J57403-10	03/30/07	14:48 BR	03/30/07	AQ	Ground Water	MW-25D

QUALITATIVE
DATA USABILITY REPORT
Soil Vapor Sampling
LCP Superfund Site

SDG No.: J63094 and J63222

Laboratory: Accutest Laboratories, Dayton, New Jersey

Site: LCP Superfund Site, Linden, New Jersey

Date: July 25, 2007

Data Reviewed by: Gregory Cole, Brown and Caldwell

A Qualitative Data Usability Review was performed on all analytical data from SDGs J63094, and J63222. The following table outlines the samples and analytical methods reviewed;

Sample	Analysis	Method
SV-8	Volatile Organic Compounds (VOC)	TO-15
SV-9	Volatile Organic Compounds (VOC)	TO-15
SV-10	Volatile Organic Compounds (VOC)	TO-15
SV-12	Volatile Organic Compounds (VOC)	TO-15
SV-13	Volatile Organic Compounds (VOC)	TO-15
DUP060707	Volatile Organic Compounds (VOC)	TO-15
TB060707	Volatile Organic Compounds (VOC)	TO-15
SV-1	Volatile Organic Compounds (VOC)	TO-15
SV-2	Volatile Organic Compounds (VOC)	TO-15
SV-3	Volatile Organic Compounds (VOC)	TO-15
SV-4	Volatile Organic Compounds (VOC)	TO-15
SV-5	Volatile Organic Compounds (VOC)	TO-15
AA2-060707	Volatile Organic Compounds (VOC)	TO-15
AA1-060707	Volatile Organic Compounds (VOC)	TO-15

This review was performed based on the requirements provided in the project Quality Assurance Project Plan, the USEPA Region II validation SOPs, and on guidance provided in the Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review, 2004.

The review included the parameters listed below.

- Sample Documentation
- Sample Holding Times
- Laboratory and Field Blank Review
- Surrogate Recovery Review
- MS/MSD Recovery and Precision
- Field/Laboratory Duplicate Review
- Laboratory Control Sample (LCS) Review
- Sample Quantitation

DESCRIPTION OF QUALITATIVE REVIEW

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. No results were rejected. Data quality issues with respect to field duplicate precision and results exceeding the calibration range were identified requiring qualification of some data.

Sample Documentation

Provided laboratory reports included all the necessary information to perform the described data review except the following:

- Detection limits were not provided in the hardcopy lab report. The lab report provides the reporting limit only. However, results detected at concentrations between the detection limit and the reporting limit are reported as estimated values The detection limits were provided as part of the electronic deliverable and have been loaded into the project database. Results reported as not detected can be considered to be less than the detection limit

Sample Holding Times

Each sample was prepared and analyzed within the specified holding time for each analysis

Laboratory and Field Blank Review

All compounds were reported as not detected in the laboratory and field blanks

Surrogate Recovery Data

Each of the surrogate recoveries were within the guidance limits.

MS/MSD Review

Matrix spikes were not performed on any Site samples.

Field/Laboratory Duplicate Review

One field duplicates was collected and analyzed for the same parameters as the associated parent samples. DUP060707 is a field duplicate for SV-10. In general, duplicate precision was poor. This is likely due to the inherent difficulties in collecting high volumes of soil vapor. Soil vapor becomes diluted as the sample volume collected increases. Therefore, reported results may be biased low. The field duplicate had much lower concentrations than the parent sample indicating that it was collected after the parent sample. The following analytes have been qualified as estimated due to field duplicate imprecision.

Constituent	Parent amt. (ppbv)	Duplicate amt. (ppbv)	RPD	RPD Limit	Action
Ethylbenzene	13.9	4.7	99	50	J
1,3,5-Trimethylbenzene	4.0	1.3	102	50	J
Toluene	91.8	35.2	89	50	J
Hexane	23.3	12.9	57	50	J

Constituent	Parent amt. (ppbv)	Duplicate amt. (ppbv)	RPD	RPD Limit	Action
Mixed Xylenes	74.1	24.3	101	50	J
Heptane	11.1	5.1	74	50	J
2,2,4-Trimethylpentane	5.5	3.1	56	50	J
1,3-Dichlorobenzene	6.3	1.5	123	50	J
4-Ethyltoluene	3.9	1.2	105	50	J
Ethanol	2360	956	85	50	J
Isopropanol	290	111	90	50	J
Chloroform	6.4	2.5	88	50	J
Benzene	16.6	7.7	80	50	J
Chloromethane	11.8	3.9	101	50	J
Tert-Butyl alcohol	7.0	2.5	95	50	J
Trichlorofluoromethane	2.1	1.2	54	50	J
2-Butanone	7.4	2.7	85	50	J
O-Xylene	16.6	5.3	103	50	J
1,2,4-Trimethylbenzene	13.9	4.3	105	50	J
M,P-Xylene	57.5	19.1	100	50	J

Laboratory Control Sample (LCS) Review

Each of the criteria is within guidance limits.

Sample Quantitation

Results for Ethanol in two samples (SV-10 and DUP060707) exceeded the calibration limit and are qualified as estimated.

The following table provides the affected samples and associated qualifications:

Sample	Constituent	amt. (ppbv)	Action
SV-10	Ethanol	2360	J
DUP060707	Ethanol	956	J

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

QUALITATIVE
DATA USABILITY REPORT
Arsenic Speciation in Biota Sampling
LCP Superfund Site

SDG No.: 90638, 90639, 90641, 90643, and 90644

Laboratory: West Coast Analytical Service, Inc., Santa Fe Springs, California

Site: LCP Superfund Site, Linden, New Jersey

Date: September 11, 2007

Data Reviewed by: Gregory Cole, Brown and Caldwell

A Qualitative Data Usability Review was performed on all analytical data from SDGs 90638, 90639, 90641, 90643, and 90644. The following table outlines the samples and analytical methods reviewed;

Sample	Analysis	Method
FC-B-2	Arsenic Speciation	SOP 7240
FC-C-1	Arsenic Speciation	SOP 7240
FC-C-2	Arsenic Speciation	SOP 7240
FC-B-1	Arsenic Speciation	SOP 7240
MC-A	Arsenic Speciation	SOP 7240
MC-A-DUP	Arsenic Speciation	SOP 7240
MC-B	Arsenic Speciation	SOP 7240
MC-C	Arsenic Speciation	SOP 7240
FC-X-2	Arsenic Speciation	SOP 7240
FC-X-1	Arsenic Speciation	SOP 7240
FC-W-1	Arsenic Speciation	SOP 7240
FC-W-2-DUP	Arsenic Speciation	SOP 7240
FC-W-2	Arsenic Speciation	SOP 7240
MC-X	Arsenic Speciation	SOP 7240
MC-W	Arsenic Speciation	SOP 7240
FC-Y-1	Arsenic Speciation	SOP 7240
FC-Y-2	Arsenic Speciation	SOP 7240
FC-Z-1	Arsenic Speciation	SOP 7240
FC-Z-2	Arsenic Speciation	SOP 7240
MC-Y	Arsenic Speciation	SOP 7240

MC-Z	Arsenic Speciation	SOP 7240
FC-D-1	Arsenic Speciation	SOP 7240
FC-D-2	Arsenic Speciation	SOP 7240
FC-E-1	Arsenic Speciation	SOP 7240
FC-E-2	Arsenic Speciation	SOP 7240
FC-F-1	Arsenic Speciation	SOP 7240
FC-F-2	Arsenic Speciation	SOP 7240
MC-D	Arsenic Speciation	SOP 7240
MC-E	Arsenic Speciation	SOP 7240
MC-F	Arsenic Speciation	SOP 7240
FC-A-1	Arsenic Speciation	SOP 7240
FC-A-2	Arsenic Speciation	SOP 7240

This review was performed based on the requirements provided in the project Quality Assurance Project Plan, the USEPA Region II validation SOPs, and on guidance provided in the Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review, 2004.

The review included the parameters listed below.

- Sample Documentation
- Sample Holding Times
- Laboratory and Field Blank Review
- MS/MSD Recovery and Precision
- Field/Laboratory Duplicate Review
- Laboratory Control Sample (LCS) Review
- Sample Quantitation

DESCRIPTION OF QUALITATIVE REVIEW

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. No results were rejected. Data quality issues with respect to field duplicate precision were identified requiring qualification of some data.

Sample Documentation

Provided laboratory reports included all the necessary information to perform the described data review.

Sample Holding Times

Each sample was prepared and analyzed within the specified holding time for each analysis

Laboratory and Field Blank Review

All compounds were reported as not detected in the laboratory and field blanks

MS/MSD Review

Matrix spikes and matrix spike duplicates were performed on three Site samples. All recoveries were within limits.

Field/Laboratory Duplicate Review

Two field duplicates were collected and analyzed for the same parameters as the associated parent samples. MC-A-DUP is a field duplicate for MC-A and FC-W-2-DUP is a field duplicate for FC-W-2. In addition, the laboratory performed laboratory replicate analyses on

three samples. In general, duplicate precision was good. However, the RPDs for several duplicate pairs exceeded the limit and have been qualified. The following results have been qualified as estimated due to duplicate imprecision.

Sample	Constituent	Parent amt. (ug/g)	Duplicate amt. (ug/g)	RPD	RPD Limit	Action
MC-A	As+3 as As	0.088	0.037	82	50	J
MC-A	As+5 as As	0.184	0.104	56	50	J
FC-F-2	DMA as As	0.013	0.005	89	50	J

Laboratory Control Sample (LCS) Review

Each of the criteria is within guidance limits.

Sample Quantitation

Each of the criteria is within guidance limits.

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

QUALITATIVE
DATA USABILITY REPORT
Biota Sampling
LCP Superfund Site

SDG No.: K0608003, K0608035, K0608105, K0608357, and K0608432

Laboratory: Columbia Analytical Services, Kelso, Washington

Site: LCP Superfund Site, Linden, New Jersey

Date: September 11, 2007

Data Reviewed by: Gregory Cole, Brown and Caldwell

A Qualitative Data Usability Review was performed on all analytical data from SDGs K0608003, K0608035, K0608105, K0608357, and K0608432. The following table outlines the samples and analytical methods reviewed;

Sample	Analysis	Method
FC-A-1	Methyl Mercury	CAS SOP
	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
FC-A-2	Volatile Organic Compounds (VOC)	TO-15
	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
FB-091806	Methyl Mercury	CAS SOP
	PCB Congeners	E1668A
	Metals	SW6010B/E200.8/SW7470A
FC-B-2	Methyl Mercury	CAS SOP
	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
FC-C-1	Methyl Mercury	CAS SOP
	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
FC-C-2	Methyl Mercury	CAS SOP
	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A

	Methyl Mercury	CAS SOP
FC-B-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-A	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-A-DUP	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-B	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-C	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FB-091906	PCB Congeners	E1668A
	Metals	SW6010B/E200.8/SW7470A
	Methyl Mercury	CAS SOP
FC-D-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-D-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-E-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-E-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-F-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-F-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-D	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A

	Methyl Mercury	CAS SOP
MC-E	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-F	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FB092006	PCB Congeners	E1668A
	Metals	SW6010B/E200.8/SW7470A
	Methyl Mercury	CAS SOP
FC-X-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-X-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-W-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-W-2-DUP	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-W-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-X	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-W	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FB-092606	PCB Congeners	E1668A
	Metals	SW6010B/E200.8/SW7470A
	Methyl Mercury	CAS SOP
FC-Y-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-Y-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A

	Methyl Mercury	CAS SOP
FC-Z-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-Z-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-Y	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-Z	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FB-092706	PCB Congeners	E1668A
	Metals	SW6010B/E200.8/SW7470A

This review was performed based on the requirements provided in the project Quality Assurance Project Plan, the USEPA Region II validation SOPs, and on guidance provided in the Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review, 2004.

The review included the parameters listed below.

- Sample Documentation
- Sample Holding Times
- Laboratory and Field Blank Review
- Labeled Standards Recovery Review
- MS/MSD Recovery and Precision
- Field/Laboratory Duplicate Review
- Laboratory Control Sample (LCS) Review
- Sample Quantitation

DESCRIPTION OF QUALITATIVE REVIEW

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. Three PCB congener results in one sample (FC-E-2) were rejected due to extremely low labeled standard recoveries. Data quality issues with respect to labeled standard recoveries outside of limits, field duplicate precision and results exceeding the calibration range were identified requiring qualification of some data.

Sample Documentation

Provided laboratory reports included all the necessary information to perform the described data review.

Sample Holding Times

Each sample was prepared and analyzed within the specified holding time for each analysis

Laboratory and Field Blank Review

PCB congeners were detected in the laboratory and field blanks. Associated sample results were qualified as not detected with an estimated detection limit (UJ). Low levels of manganese were also detected in method blanks. However, associated sample concentrations were greater than five times the blank concentration and results were not qualified. The following analytes have been qualified due to blank contamination:

Sample ID	Analyte	Sample amt. (ng/Kg)	Blank amt. (ng/Kg)	Action
FC-A-1	3,3'-Dichlorobiphenyl	469.72	105	UJ
	3-Chlorobiphenyl	5.89	1.8	UJ
	4-Chlorobiphenyl	21.51	5.5	UJ
FC-A-2	3,3'-Dichlorobiphenyl	351.2	105	UJ

Sample ID	Analyte	Sample amt. (ng/Kg)	Blank amt. (ng/Kg)	Action
	3-Chlorobiphenyl	4.51	1.8	UJ
	4-Chlorobiphenyl	19.03	5.5	UJ
FC-B-2	2,2'-Dichlorobiphenyl	35.67	9.41	UJ
	3,3'-Dichlorobiphenyl	355.43	100.2	UJ
	2-Chlorobiphenyl	9.85	3.88	UJ
	4-Chlorobiphenyl	10.22	5.43	UJ
FC-C-2	3,3'-Dichlorobiphenyl	373.03	100.2	UJ
	2-Chlorobiphenyl	9.45	3.88	UJ
	4-Chlorobiphenyl	10.12	5.43	UJ
FC-B-1	3,3'-Dichlorobiphenyl	370.72	100.2	UJ
	2-Chlorobiphenyl	12.41	3.88	UJ
	4-Chlorobiphenyl	11.37	5.43	UJ
MC-A	3,3'-Dichlorobiphenyl	156.78	100.2	UJ
	4-Chlorobiphenyl	19.66	5.43	UJ
MC-A-DUP	3,3'-Dichlorobiphenyl	168.4	100.2	UJ
	4-Chlorobiphenyl	16.81	5.43	UJ
MC-B	3,3'-Dichlorobiphenyl	155.35	100.2	UJ
MC-C	3,3'-Dichlorobiphenyl	135.64	100.2	UJ
	2-Chlorobiphenyl	14.72	3.88	UJ
	4-Chlorobiphenyl	5.26	5.43	UJ
MC-D	3,3'-Dichlorobiphenyl	181.04	100.2	UJ
MC-E	3,3'-Dichlorobiphenyl	289.11	100.2	UJ
MC-F	3,3'-Dichlorobiphenyl	134.66	100.2	UJ
FC-X-2	4-Chlorobiphenyl	7.16	1.55	UJ
FC-X-1	2-Chlorobiphenyl	6.02	1.42	UJ
	4-Chlorobiphenyl	5.23	1.55	UJ
FC-W-1	2-Chlorobiphenyl	5.87	1.42	UJ
	4-Chlorobiphenyl	4.22	1.55	UJ
FC-W-2-DUP	2-Chlorobiphenyl	5.89	1.42	UJ
	4-Chlorobiphenyl	5.5	1.55	UJ
	2,2',6-Trichlorobiphenyl	5.62	1.5	UJ

Sample ID	Analyte	Sample amt. (ng/Kg)	Blank amt. (ng/Kg)	Action
MC-X	4-Chlorobiphenyl	7.06	1.55	UJ
MC-W	4-Chlorobiphenyl	7.45	1.55	UJ
FC-Y-1	2-Chlorobiphenyl	5.88	1.42	UJ
	4-Chlorobiphenyl	4.97	1.55	UJ
	2,2',6-Trichlorobiphenyl	5.68	1.5	UJ
FC-Y-2	2-Chlorobiphenyl	5.63	1.42	UJ
	4-Chlorobiphenyl	5.34	1.55	UJ
FC-Z-1	2-Chlorobiphenyl	5.74	1.42	UJ
	4-Chlorobiphenyl	5.11	1.55	UJ
FC-Z-2	2-Chlorobiphenyl	6.64	1.42	UJ
MC-Y	4-Chlorobiphenyl	5.91	1.55	UJ
MC-Z	4-Chlorobiphenyl	5.79	1.55	UJ

Labeled Standards Recovery Data

Labeled Standards were added to the samples for PCB congener analysis. Recovery limits for labeled standards are 15-150 percent recovery. Results associated with recoveries outside limits were qualified as shown below.

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
FC-A-1	Decachlorobiphenyl	199	1241	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	341	440.22	J
	2,3',4,4',5-Pentachlorobiphenyl	156	11834.16	J
	2,3,3',4,4',5-Hexachlorobiphenyl	153	1112.24	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	170	241.64	J
FC-A-2	Decachlorobiphenyl	198	1842.03	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	341	700.21	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	164	127.79	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	165	334.54	J
FC-B-2	Decachlorobiphenyl	194	632.84	J

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	325	385.3	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	159	53.55	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	359	213.99	J
FC-C-1	Decachlorobiphenyl	485	1576.64	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	651	1205.11	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	352	211.38	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	384	1468.33	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	700	784.43	J
FC-C-2	Decachlorobiphenyl	193	463.64	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	316	317.27	J
	2,3',4,4',5-Pentachlorobiphenyl	165	4500	J
	2,3,3',4,4',5-Hexachlorobiphenyl	163	571.96	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	151	379.23	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	157	302.43	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	153	179.78	J
FC-B-1	Decachlorobiphenyl	219	795.02	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	432	274.92	J
	2,3',4,4',5-Pentachlorobiphenyl	151	4817.21	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	205	32.09	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	175	370.31	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	196	158.7	J
MC-A	Decachlorobiphenyl	195	644.28	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	374	514.64	J
	2,3',4,4',5-Pentachlorobiphenyl	152	14418.6	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	181	94.97	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	167	199.2	J
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	446	194.06	J
MC-A-DUP	Decachlorobiphenyl	195	590.11	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	342	460.6	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	153	214.16	J

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
MC-C	Decachlorobiphenyl	161	184.96	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	224	185.3	J
FC-D-1	Decachlorobiphenyl	208	473.7	J
	2-Chlorobiphenyl	38	10.49	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	345	310.15	J
	2,3',4,4',5-Pentachlorobiphenyl	152	5450.77	J
	2,3,3',4,4',5-Hexachlorobiphenyl	160	607.15	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	160	342.69	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	170	169.97	J
FC-D-2	Decachlorobiphenyl	262	850.56	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	309	497.66	J
	2',3,4,4',5-Pentachlorobiphenyl	186	7104.82	J
	2,3,3',4,4',5-Hexachlorobiphenyl	155	897.21	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	175	64.5	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	198	646.03	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	155	512.13	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	193	310.52	J
FC-E-1	Decachlorobiphenyl	222	400.57	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	207	258.32	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	163	25.53	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	170	754.95	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	154	196.39	J
FC-E-2	2,2'-Dichlorobiphenyl	2	<108.76	UR
	Decachlorobiphenyl	214	423	J
	2-Chlorobiphenyl	0	<62.65	UR
	4-Chlorobiphenyl	2	<43.506	UR
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	268	649.45	J
	2,2',6-Trichlorobiphenyl	11	17.59	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	162	61.36	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	152	777.07	J

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	182	329.07	J
FC-F-1	Decachlorobiphenyl	173	255.2	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	156	317.07	J
	2',3,4,4',5-Pentachlorobiphenyl	166	7201.5	J
	2,3,3',4,4',5-Hexachlorobiphenyl	155	735.02	J
FC-F-2	Decachlorobiphenyl	154	1157.25	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	164	1128.11	J
MC-D	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	249	585.38	J
MC-E	Decachlorobiphenyl	731	992.93	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	1034	1022.43	J
	2,3',4,4',5-Pentachlorobiphenyl	177	16912.46	J
	2,3,3',4,4'-Pentachlorobiphenyl	156	6365.3	J
	2,3,3',4,4',5-Hexachlorobiphenyl	180	2026.27	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	468	<106.48	UJ
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	583	1779.14	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	172	1021.28	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	402	691.43	J
	2',3,4,4',5-Pentachlorobiphenyl	197	<106.48	UJ
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	1278	<212.96	UJ
	2,3,3',4,4',5,5',6,-Octachlorobiphenyl	2	413007.1	J
MC-F	Decachlorobiphenyl	174	409.73	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	308	446.3	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	151	<104.86	UJ
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	352	<209.73	UJ
FC-X-2	2,2'-Dichlorobiphenyl	23	30.09	J
	Decachlorobiphenyl	168	379.37	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	236	275.8	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	152	13.94	J
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	289	<238.6	UJ
FC-X-1	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	286	354.91	J

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
	2,3',4,4',5-Pentachlorobiphenyl	152	2675.68	J
	2,3,3',4,4',5-Hexachlorobiphenyl	154	421	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	152	53.26	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	163	555.72	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	151	288.98	J
	2',3,4,4',5-Pentachlorobiphenyl	172	<88.463	UJ
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	354	<176.92	UJ
FC-W-1	Decachlorobiphenyl	189	341.92	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	254	209.3	J
	2,3,3',4,4',5-Hexachlorobiphenyl	156	214.41	J
	2',3,4,4',5-Pentachlorobiphenyl	188	<111.3	UJ
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	319	<222.61	UJ
FC-W-2-DUP	Decachlorobiphenyl	166	540.16	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	231	632.41	J
	2',3,4,4',5-Pentachlorobiphenyl	169	<118.99	UJ
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	288	<237.98	UJ
FC-W-2	Decachlorobiphenyl	159	413.24	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	176	391.46	J
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	202	<104.8	UJ
MC-X	Decachlorobiphenyl	337	685.8	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	559	831.8	J
	2,3',4,4',5-Pentachlorobiphenyl	158	10431.63	J
	2,3,3',4,4',5-Hexachlorobiphenyl	158	1372.98	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	262	<99.938	UJ
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	254	913.82	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	154	806.88	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	256	475.05	J
	2',3,4,4',5-Pentachlorobiphenyl	188	<99.938	UJ
	2,3,4,4',5-Pentachlorobiphenyl	160	227.37	J
	2,3,3',4,4',5,5',6-Octachlorobiphenyl	14	<199.87	UJ

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	711	<99.938	UJ
MC-W	Decachlorobiphenyl	6	21130.6	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	305	771.25	J
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	154	924.02	J
	2',3,4,4',5-Pentachlorobiphenyl	172	<116.13	UJ
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	376	<116.13	UJ
FC-Y-1	Decachlorobiphenyl	205	587.29	
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	336	345.29	
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	156	<105.05	UJ
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	158	521.41	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	153	273.53	J
	3,3',4,4',5-Pentachlorobiphenyl	190	<105.05	UJ
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	407	<105.05	UJ
FC-Y-2	Decachlorobiphenyl	210	631.84	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	322	3953.92	J
	2,3',4,4',5-Pentachlorobiphenyl	152	2899.62	J
	2,3,3',4,4',5-Hexachlorobiphenyl	157	392.94	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	156	42.71	J
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	155	619.1	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	155	243.1	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	155	307.04	J
	2',3,4,4',5-Pentachlorobiphenyl	174	<109.23	UJ
	2,3,4,4',5-Pentachlorobiphenyl	152	27.73	J
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	384	<109.23	UJ
FC-Z-1	Decachlorobiphenyl	218	880.83	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	303	593.64	J
	2,3',4,4',5-Pentachlorobiphenyl	151	4425.23	J
	2,3,3',4,4',5-Hexachlorobiphenyl	174	610.94	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	170	27.07	J
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	155	992.19	J

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
	2,3',4,4',5,5'-Hexachlorobiphenyl	169	370.06	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	159	449.46	J
	2',3,4,4',5-Pentachlorobiphenyl	192	211.98	J
	2,3,4,4',5-Pentachlorobiphenyl	160	<112.51	UJ
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	361	<112.51	UJ
FC-Z-2	Decachlorobiphenyl	168	777.54	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	182	460.35	J
	2,3,3',4,4',5-Hexachlorobiphenyl	167	446.2	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	163	274.12	J
	2',3,4,4',5-Pentachlorobiphenyl	175	<103.62	UJ
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	210	<103.62	UJ
MC-Y	Decachlorobiphenyl	221	575.44	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	340	771.2	J
	2,3,3',4,4',5-Hexachlorobiphenyl	166	1270.19	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	176	<109.7	UJ
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	163	897.94	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	157	731.45	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	166	433.91	J
	2',3,4,4',5-Pentachlorobiphenyl	175	<109.7	UJ
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	392	<109.7	UJ
MC-Z	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	192	983.7	J
	2,3',4,4',5-Pentachlorobiphenyl	164	12650.88	J
	2,3,3',4,4',5-Hexachlorobiphenyl	180	1425.66	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	168	722.54	J
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	228	<112.48	UJ

MS/MSD Review

Matrix spikes and matrix spike duplicates were performed on three Site samples (FC-C-1, MC-B, and MC-X). Many recoveries were outside of acceptance limits. This is likely due to the

matrix interferences inherent in tissue samples. Results associated with recoveries outside limits were qualified as shown below.

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
FC-C-1	2,2'-Dichlorobiphenyl	-51	369.05	J
	3,3',4,4'-Tetrachlorobiphenyl	-58	671.61	J
	3,4,4'-Trichlorobiphenyl	22	550.22	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	21	211.38	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	-171	784.43	J
	3,3',4,4',5-Pentachlorobiphenyl	26	212.45	J
	2,3,3',4,4',5,5'6-Octachlorobiphenyl	42	263.32	J
	2,3,3',4,4',5,5'6-Octachlorobiphenyl	27	0	UJ
	Zinc	140	145	J
MC-B	Zinc	134	175	J
MC-X	2,2'-Dichlorobiphenyl	153	213.38	J
	Decachlorobiphenyl	161	685.8	J
	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	176	831.8	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	151	475.05	J

Field/Laboratory Duplicate Review

Two field duplicates were collected and analyzed for the same parameters as the associated parent samples. MC-A-DUP is a field duplicate for MC-A. FC-W-2-DUP is a field duplicate for FC-W-2. Laboratory replicates were also performed. In general, duplicate precision was fair. The following analytes have been qualified as estimated due to field duplicate imprecision.

Sample	Constituent	Parent amt. (ppbv)	Duplicate amt. (ppbv)	RPD	RPD Limit	Action
MC-A	2,3,3',4',6-Pentachlorobiphenyl	17155.71	9370.8	59	50	J
	2,3',6-Trichlorobiphenyl	98.89	<42.598	80	50	J
	2,3,3',4'-Tetrachlorobiphenyl	675.41	<42.598	176	50	J

Sample	Constituent	Parent amt. (ppbv)	Duplicate amt. (ppbv)	RPD	RPD Limit	Action
	2,2'3,3',4,4',5,6'-Octachlorobiphenyl	909.43	318.99	96	50	J
	2,2',3,4-Tetrachlorobiphenyl	2661.14	<106.49	184	50	J
	2,2',3,3',6-Pentachlorobiphenyl	826.33	453.23	58	50	J
	2,2',3,3',4-Pentachlorobiphenyl	463.14	<106.49	125	50	J
	2,2',3,4,5,5'-Hexachlorobiphenyl	1804.33	<42.598	190	50	J
	2,2',3,4,5-Pentachlorobiphenyl	4686.81	1575.9	99	50	J
	2,3',4,5',6-Pentachlorobiphenyl	304.11	170.17	56	50	J
	2,2',3,4,5',6-Hexachlorobiphenyl	379.17	70.38	137	50	J
	2,3,3',5-Tetrachlorobiphenyl	355.86	<106.49	107	50	J
	2,3,3',4,5-Pentachlorobiphenyl	2040.45	<106.49	180	50	J
	2,3,3',6-Tetrachlorobiphenyl	563.64	<42.598	171	50	J
	2,3,4,4',5-Pentachlorobiphenyl	237.04	<106.49	76	50	J
	2,3,3',4',5',6-Hexachlorobiphenyl	<97.031	646.3	147	50	J
FC-W-2	3,4-Dichlorobiphenyl	29.74	10.45	95	50	J
	2,3',4,4'-Tetrachlorobiphenyl	1678.25	9927.29	142	50	J
	2,3',4',5-Tetrachlorobiphenyl	2940.09	16090.41	138	50	J
	2,3,4,4'-Tetrachlorobiphenyl	286.53	1652.18	140	50	J
	2,2'3,3',4,4',6,6'-Octachlorobiphenyl	137.3	353.7	88	50	J
	2,2',3,4,4',5-Hexachlorobiphenyl	479.61	<237.98	67	50	J
	2,2',3,3',6,6'-Hexachlorobiphenyl	171.25	571.47	107	50	J
	2,2',3,3',4,5,6'-Heptachlorobiphenyl	2817.73	5096.59	57	50	J
	3,4,4'-Trichlorobiphenyl	214.73	<118.99	57	50	J
	2,2'3,3',4,5',6,6'-Octachlorobiphenyl	238.96	485.17	68	50	J
	2,3',5,5'-Tetrachlorobiphenyl	34.72	133.25	117	50	J
	2,2',3,4',5,5'-Hexachlorobiphenyl	<104.8	962.15	160	50	J
	2,3,4',6-Tetrachlorobiphenyl	1277.83	<47.596	185	50	J
	2,2',3,4-Tetrachlorobiphenyl	659.72	<188.99	110	50	J
	2,2',3,3',5,6,6'-Heptachlorobiphenyl	521.77	1024.95	65	50	J
	2,2',3,3',4,5'-Hexachlorobiphenyl	170.12	74.69	77	50	J
	2,2',3,4,4',5',6-Heptachlorobiphenyl	507.17	1743.37	109	50	J

Sample	Constituent	Parent amt. (ppbv)	Duplicate amt. (ppbv)	RPD	RPD Limit	Action
	2,2',3,3',5,6'-Hexachlorobiphenyl	1141.06	3606.28	103	50	J
	2,2',3,4,4'-Pentachlorobiphenyl	691.38	1300.33	61	50	J
	2,2',3,4,5',6-Hexachlorobiphenyl	141.53	1711.96	169	50	J
	2,2',4,5-Tetrachlorobiphenyl	357.15	851.31	81	50	J
	2,3,3',4,5-Pentachlorobiphenyl	<104.8	727.01	149	50	J
	2,3',4,5-Tetrachlorobiphenyl	63.99	158.38	85	50	J
	2,3,3',4',5',6-Hexachlorobiphenyl	<104.8	1552.22	175	50	J
	2,3,3',5,5',6-Hexachlorobiphenyl	969.7	<237.98	121	50	J

Laboratory Control Sample (LCS) Review

Each of the criteria is within guidance limits.

Sample Quantitation

Results for four PCB congeners in two samples (MC-X and MC-W) exceeded the calibration limit and are qualified as estimated.

The following table provides the affected samples and associated qualifications:

Sample	Constituent	amt. (ng/Kg)	Action
MC-X	2,3',4,4',5-Pentachlorobiphenyl	10431.63	J
	2,2',3,5',6-Pentachlorobiphenyl	8181.67	J
MC-W	Decachlorobiphenyl	21130.6	J
	2,3',4,4',5-Pentachlorobiphenyl	9516.31	J

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

QUALITATIVE
DATA USABILITY REPORT
Gaseous Mercury Sampling
LCP Superfund Site

SDG No.: 0607133

Laboratory: Frontier Geosciences, Inc., Seattle, Washington

Site: LCP Superfund Site, Linden, New Jersey

Date: September 11, 2007

Data Reviewed by: Gregory Cole, Brown and Caldwell

A Qualitative Data Usability Review was performed on all analytical data from SDG 0607133. The following table outlines the samples and analytical methods reviewed;

Sample	Analysis	Method
IO5-1	Total Gaseous Mercury (TGM)	IO-5
IO5-2	Total Gaseous Mercury (TGM)	IO-5
IO5-3	Total Gaseous Mercury (TGM)	IO-5
IO5-5	Total Gaseous Mercury (TGM)	IO-5
IO5-6	Total Gaseous Mercury (TGM)	IO-5

This review was performed based on the requirements provided in the project Quality Assurance Project Plan, the USEPA Region II validation SOPs, and on guidance provided in the Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review, 2004.

The review included the parameters listed below.

- Sample Documentation
- Sample Holding Times
- Laboratory and Field Blank Review
- Field/Laboratory Duplicate Review

- Laboratory Control Sample (LCS) Review
- Sample Quantitation

DESCRIPTION OF QUALITATIVE REVIEW

Summary Evaluation of Data and Potential Usability Issues

No results were rejected. Data quality issues with respect to exceeding holding times and high mercury breakthrough were identified requiring qualification of all results. The data user should determine if the data is acceptable for the intended purposes.

Sample Documentation

Provided laboratory reports included all the necessary information to perform the described data review.

Sample Holding Times

All samples were prepared past the recommended seven day holding time. Results have been qualified as estimated (J/UJ).

Laboratory and Field Blank Review

Mercury was reported as not detected in the laboratory and field blanks

Field/Laboratory Duplicate Review

No field duplicates were submitted for analysis. Laboratory replicates are not applicable to the method.

Laboratory Control Sample (LCS) Review

Each of the criteria is within guidance limits.

Sample Quantitation

Sample breakthrough in the second trap was observed for sample IO5-3. The mercury result was qualified as estimated (J) with a possible low bias.

The following table provides the affected samples and associated qualifications:

Sample	Constituent	amt. (ppbv)	Action
IO5-3	Mercury	1.04	J

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

QUALITATIVE
DATA USABILITY REPORT
Soil and TCLP Mercury Sampling
LCP Superfund Site

SDG No.: J90925

Laboratory: Accutest Laboratories., Dayton, New Jersey

Site: LCP Superfund Site, Linden, New Jersey

Date: August 14, 2008

Data Reviewed by: Gregory Cole, Brown and Caldwell

A Qualitative Data Usability Review was performed on all analytical data from SDG J90925. The following table outlines the samples and analytical methods reviewed;

Sample	Analysis	Method
SS-08-09-1.0	Total Mercury in Soil	SW7471A
SS-08-09-1.0	TCLP Mercury	SW1311/SW7470A
SS-08-09-1.0	Percent Solids	EPA 160.3 M
SS-08-10-1.0	Total Mercury in Soil	SW7471A
SS-08-10-1.0	TCLP Mercury	SW1311/SW7470A
SS-08-10-1.0	Percent Solids	EPA 160.3 M
SS-08-11-0.5	Total Mercury in Soil	SW7471A
SS-08-11-0.5	TCLP Mercury	SW1311/SW7470A
SS-08-11-0.5	Percent Solids	EPA 160.3 M
SS-08-12-0.5	Total Mercury in Soil	SW7471A
SS-08-12-0.5	TCLP Mercury	SW1311/SW7470A
SS-08-12-0.5	Percent Solids	EPA 160.3 M

This review was performed based on the requirements provided in the project Quality Assurance Project Plan, the USEPA Region II validation SOPs, and on guidance provided in the Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review, 2004.

The review included the parameters listed below.

- Sample Documentation
- Sample Holding Times
- Laboratory and Field Blank Review
- Laboratory Control Sample (LCS) Review
- Sample Quantitation

DESCRIPTION OF QUALITATIVE REVIEW

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. No results were rejected or qualified as estimated.

Sample Documentation

Provided laboratory reports included all the necessary information to perform the described data review.

Sample Holding Times

Each sample was prepared and analyzed within the specified holding time for each analysis

Laboratory Blank Review

All compounds were reported as not detected in the laboratory blanks

Laboratory Control Sample (LCS) Review

Each of the criteria is within guidance limits.

Sample Quantitation

Each of the criteria is within guidance limits.

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, N. Y. 12853

Phone 518-251-4429

Facsimile 518-251-4428

July 5, 2007

Matt Cavas
Brown and Caldwell
110 Commerce Dr.
Allendale, NJ 07401

RE: Data Validation for the LCP Superfund site, Linden, NJ
South Branch and Reference Stream Locations
Accutest SDG Nos. J41738, J41741, J42011, J42360, J42535, J42762, J42838, J42866, J43022, J43207, J43284, J43443, J43008, J41738X, J41741X, J42011X, J42360X, J42535X, J42762X, J42838X, J42866X, J43022X, J43207X, J43284X, J43443A, J43443X, and J43008X

Dear Mr. Cavas:

Review has been completed for the data packages generated by Accutest Laboratories that pertain to samples collected 9/21/06 through 10/10/06 at the South Branch and Reference Stream sites of the LCP Superfund, Linden, NJ project. Eighty soil samples and eleven aqueous samples were processed for TCL Volatiles, TCL Semivolatiles, TCL Pesticides, TCL PCBs, TAL metals, hexavalent chromium, total cyanide, and methyl mercury. Twenty-two of the soil and four of the aqueous samples were also processed for Dioxin/Furans (PCDD/PCDF). The aqueous samples were also analyzed for low level total mercury, TOC, cyanide, TSS, DOC, and total hardness. The soils were also analyzed for Particle Size (Sieve) and Redox Potential. Thirty-seven of the soils were also processed for acid volatile sulfide metals (AVS/SEM). Aqueous samples also underwent Selective Ion Monitoring (SIM) for selected semivolatile analytes in order to obtain better sensitivity and lower reporting limits. Blind field duplicates, sample matrix spikes, field blanks, and trip blanks were processed with the project samples. The specific sample location identifications covered in this report are noted in the attached laboratory summary listings.

The analytical methodologies utilized are those of the USEPA SW846 3rd edition and USEPA Standard Methods. The dioxin/furan analyses were subcontracted to SGS/Paradigm, the methyl mercury and low level aqueous mercury analyses were subcontracted to Columbia Analytical Services (CAS)-Kelso and Battelle Marine Sciences, and AVS/SEM were subcontracted to Accutest-Houston.

Validation review of the data packages has been performed utilizing the guidance in the USEPA National Functional Guidelines for Data Review, the USEPA Region II validation SOPs, the project QAPP (including laboratory SOPs), the specific methodology requirements, and professional judgment.

The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times
* Surrogate Recoveries and Internal Standard Responses
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration Blanks
* Control Spike/Laboratory Control Samples
* Instrumental Tunes
* Calibration/CRI/CRA Standards
* ICP Serial Dilution
* ICP Interference Check Samples
* Dioxin/Furan Recovery and Clean-Up Standards
* Instrument IDLs and Performance
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable according to the validation guidelines noted above.

In summary, most of the sample analyte values/reporting limits are usable as reported, or usable with minor qualification as estimated ("J" qualifier) due to typical processing or matrix effects. The following exceptions were noted:

- Due to matrix effect, the results for hexavalent chromium in the soil samples are not usable, as evidenced by the lack of recovery of that analyte in the spiked sample controls.
- Results for hexachlorocyclopentadiene in most of the soil samples are not usable due to lack of recovery in the project matrix spikes.
- Results for several select volatile or semivolatile compounds are not usable in a limited number of samples due to apparent matrix effect
- POC processing was requested, but was not performed on the samples due to laboratory oversight. There are no POC data for the project.
- Many of the reported pesticide detections have been qualified to reflect the potential for false positives due to matrix interferences.
- Some of the low level detections are considered external contamination, as evidenced by presence in associated blank
- A large proportion of the soil samples covered in this report exhibit low solids (high moisture) content. Therefore, all results for those samples have been qualified as being estimated in quantitative value.

Laboratory processing was generally compliant with analytical protocol requirements, and the project data completeness requirement of 90% has been met.

Copies of the laboratory sample identification summary forms that list the sample covered in this report are attached to this text, and should be reviewed in conjunction with this report. Included with this submission are electronic client data tables that have been qualified in red to reflect the edits and qualifications recommended within this report. These tables have been submitted under separate cover.

The following text discusses quality issues of concern.

General

The strong majority of the samples have solids content below 50%. With low solids (high moisture) content, there exists the possibility of a non-homogeneous aliquot taken during sample collection in the field or during sample processing in the laboratory. Additionally, the aqueous matrix (i.e. which is approached with samples having very low solids content) involves significantly different processing procedures than the solid matrix for semivolatiles (including BNA, pesticides, PCBs, and herbicides) and certain of the wet chemistry analytes. Additionally, the aqueous matrix requires preservation for volatiles, metals, and certain of the wet chemistry parameters not required of the soil samples.

Therefore, results (both detected values and the reporting limits of non-detected analytes) for the samples with solids below 50% have been qualified as estimated, with a possible bias of an unknown direction

TCL Volatiles by USEPA SW846 8260B

Results for LM-E-3, LM-E-4, and LM-F-3 are qualified as estimated due to outlying holding times (analyzed at 15 days from collection). These samples are also qualified due to low solids content.

Matrix spikes (MS and MSD) for SW-D, SW-W, SED-Z-1, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-F-1-0-0.5, SED-F-3-0-0.5, SED-E-2-1.0-1.5, SED-C-3-0-0.5, SED-B-1-0-0.5, SED-A-1-0-0.5 (all at low level), and SED-9 (at medium level) show accuracy and precision within QAPP/validation guidelines, with the following exceptions:

- Recoveries of five compounds are below recommended limit in the matrix spike SW-D, but are acceptable in the MSD. Similarly, a total of 14 compounds show elevated duplicate correla-tions with the MSD>MS. The MS also shows a low internal standard response not exhibited by the parent sample or MSD. The MS outliers are a processing anomaly, and no qualifications were made to the parent sample on that basis.
- Bromoform and 1,2,4-trichlorobenzene did not recover in the spikes of SED-C-3-0-0.5. Results for these two compounds in the parent sample are therefore not usable, and are rejected.
- Bromoform and dibromochloromethane did not recover in the spikes of SED-A-1-0-0.5. Results for these two compounds in the parent sample are therefore not usable, and are rejected. 1,2,4-trichlorobenzene also did not recover in those spikes; the detected value in the parent sample is qualified as estimated. Twenty-seven other volatile analytes recovered below the recommended limit in both spikes. All results for the parent sample are already qualified as estimated due to low solids content.

Field duplicate correlations for SW-B, SW-Y, SED-W-1-0-0.5, SED-F-3-0-0.5, SED-Y-3, and LM-C-2 are acceptable, with the exception of that for methyl acetate in LM-C-2 (114%RPD).

Calibrations standards showed acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated samples:

- acetone and 2-butanone (low RRF) in the three soils reported in SDG J41741, and in LM-B-3 and LM-B-4
- trichlorofluoromethane (28%D) detections in the aqueous samples in SDG J42011
- 2-hexanone (30%D) in samples in SDG J42360
- methyl acetate in eight sample reported in SDG J43443
- acetone (low RRF) in low level soils in SDGs J42535, J42762, J42838, J42866, J43022, J43207
- 2-butanone (low RRF and/or 24%D) in field blanks of 9/29/06, 10/02/06, 10/03/06, and 10/05/06

Results of the field blank of 9/29/06 are qualified as estimated, and may have a low bias, due to elevated temperature at sample receipt (14.5°C).

Tentatively Identified Compounds (TICs) that are flagged as "B" or identified as "system artifacts" are considered external contamination, as shown by presence in the associated blanks.

TCL Semivolatile Analyses by USEPA SW846 8270C

Due to apparent matrix effects, samples SED-F-1-0-0.5, SED-F-2-0-0.5, and SED-F-3-0-0.5 show very low response (<25%) for internal standard d12-perylene. Therefore, the result for the undetected associated analyte, di-n-octylphthalate, is not usable in those three samples. Two of those samples, as well as the field duplicate of the latter, also show low response for internal standard d12-chrysene. Results for all other associated compounds in those samples are qualified as estimated.

The results for the seven compounds associated with d12-perylene are qualified as estimated in SED-E-2-0-0.5, SED-C-3-0-0.5, and SED-B-1-0-0.5 due to low responses of that internal standard in those samples and their matrix spikes.

Matrix spikes (MS and MSD) for SW-D, SW-W, SED-X-3, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-F-1-0-0.5, SED-C-3-0-0.5, SED-C-3-0-0.5, SED-B-1-0-0.5, LM-C-2, and SED-9 show accuracy and precision within validation guidelines, with the following exceptions:

- 3,3'-dichorobenzidine, 3-nitroaniline, and 4-nitroaniline failed to recover in SW-D and SW-W. Results for those three compounds in those two parent samples are therefore rejected, and not usable
- hexachlorocyclopentadiene failed to recover in the matrix spikes of SED-X-3, SED-E-1-0-0.5 SED-F-1-0-0.5, SED-E-2-1.0-1.5, SED-C-3-0-0.5, and SED-9. Due to The persistence of failure in the project soil matrix spikes (in all soils except SED-W-3-0-0.5) the results for this compound in all soil samples covered in this report except those in SDG J42535 are therefore rejected, and not usable.
- bis(2-ethylhexyl)phthalate in SED-F-1-0-0.5 shows elevated recoveries; results in the parent sample are qualified as estimated

- fluoranthene and phenanthrene showed inconsistent results (and very low recoveries) in the spikes of SED-B-1-0-0.5 and SED-9. Results for those two compounds in the two parent samples are qualified as estimated.

Detected values of anthracene and fluoranthene in soils reported in SDG J43022 are qualified as estimated, with a possible high bias, due to elevated recoveries (111% and 118%) in the associated spiked blank control.

Field duplicate correlations for SW-B, SW-Y, and SED-W-1-0-0.5 are acceptable.

The field duplicate evaluation of SED-F-3-0-0.5 shows outlying correlations for acenapthylene, anthracene, benzo(k)fluoranthene, 1,1-biphenyl, dibenz(a,h)anthracene, bis(2-ethylhexyl)phthalate, 2-methylnaphthalene, pyrene (59%RPD to 126%RPD). Results for these analytes in the parent sample and the duplicate are qualified as estimated.

The field duplicate evaluation of SED-Y-3 shows outlying correlations for fluoranthene, phenanthrene, and pyrene (78%RPD to 126%RPD). Results for these analytes in the parent sample and the duplicate are qualified as estimated.

The field duplicate evaluation of LM-D-4 shows outlying correlations for bis(2-ethylhexyl)phthalate and fluoranthene (67%RPD and 101%RPD). Results for these analytes in the parent sample and the duplicate are qualified as estimated.

The results for the field blank of 10/05/06 are qualified as estimated, with a possible low bias, due to outlying holding time to extraction.

Results of the field blank of 9/29/06 are qualified as estimated, and may have a low bias, due to elevated temperature at sample receipt (14.5°C).

Calibrations standards showed acceptable responses with laboratory requirements and validation guidelines, with the following exceptions, results for which are qualified as indicated in the noted samples:

- benzo(k)fluoranthene (28%D) in SIM aqueous samples in SDG J42011
- 2,4-dinitrophenol (33%D) and 4,6-dinitro-2-methylphenol (28%D) in the field blank and all soils reported in SDG J42762
- dibenz(a,h)anthracene (26%D) detections in samples reported in J42866
- hexachlorocyclopentadiene (28%D) in FB 100506
- 2,4-dinitrophenol (28%D) in SED-C-1-0-0.5, SED-C-2-0-0.5, SED-C-2-0.5-1.0, and SED-C-2-1.0-1.5

Due to presence in the associated method or field blank, detected results for bis(2-ethylhexyl)-phthalate in SW-D, and in samples reported in SDGs J42762 and J42838 are considered external contamination, and edited to reflect non-detection ("U").

Tentatively Identified Compounds (TICs) that are flagged as "B" and/or "A", or identified as "system artifacts" are considered external contamination, as shown by presence in the associated blanks.

TCL PCB/Pesticides Analyses by USEPA SW846 8081A and 8082

Some of the pesticide reported detections may reflect responses from the sample matrix or PCB components. Those detections show elevated dual column correlations, with resulting qualifications as either estimated in value ("J"), tentative in identification and estimated in value ("NJ"), or edited to nondetection ("U", sometimes at elevated reporting limits). The correlations reported on summary forms by the laboratory were calculated as %RPD. Per validation protocols, this review evaluation utilized %D. The appropriate qualifica-tions have been made on the attached sample result forms.

Due to elevated surrogate DCB standard recoveries, results for detected pesticides (4,4'-DDD, 4,4'-DDE, and 4,4'-DDT) in the field duplicate of SED-W-1-0-0.5 are qualified as estimated ("J"), and may have a high bias. Results for the parent sample are not affected.

Due to elevated surrogate TCX and/or DCB standard recoveries, results for detected pesticides in SED-F-1-0-0.5, SED-F-2-0-0.5, SED-F-3-0-0.5, SEF-A-2-0-0.5, and the field duplicate of SED-F-3-0-0.5 are qualified as estimated ("J"), and may have a high bias.

Results for SED-7 are qualified as estimated due to outlying holding time for re-extraction (the initial extraction produced outlying low surrogate standard recoveries).

Calibration standards meet protocol and validation requirements.

Matrix spikes of pesticides and Aroclors 1016 and 1260 in SW-D, SW-W, SED-Y-1, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-C-3-0-0.5, SED-B-1-0-0.5, SED-A-1-0-0.5, and SED-9 show acceptable accuracy and precision, with the following exceptions, results for which are qualified as estimated in the indicated parent sample:

- aldrin, a-chlordane, endosulfan I, endosulfan II, heptachlor (outliers 44% to 49%), and 4,4'-DDT (0% and 1000%) in SED-Y-1
- endrin aldehyde, aldrin, and g-chlordane (17% to 44%, 57%RPD to 87%RPD) in SED-E-1-0-0.5
- Aroclor 1260 (225% and 1275%) in SED-B-1-0-0.5

Some of the Aroclor 1016 recoveries in the matrix spikes are elevated due to response contributions from the Aroclor 1254 that is present in the parent sample.

Field duplicate correlations for SW-B and SW-Y are acceptable.

Those for SED-W-1-0-0.5 show an outlying variance for 4,4'-DDT. The results for that analyte in the parent sample and field duplicate are considered additionally estimated (results are also qualified due to low solids content).

The field duplicates of LM-C-2 and LM-D-4 show large variance for 4,4'-DDT, where it was not detected in the parents, but detected at 19 ug/kg or 18 ug/kg in the duplicate. The detected result in the duplicate of LM-C-2 has been qualified as tentative in identification due to dual column variance. The non-detected results of 4,4'-DDT in the parent samples, and the detected result in the duplicate of LM-D-4 are qualified as estimated due to the field duplicate variance.

The field duplicate of SED-F-3-0-0.5 shows significant variances for 4,4'-DDD, 4,4'-DDT, heptachlor epoxide, and methoxychlor (up to more than an order of magnitude). Results are qualified as estimated in the parent sample and duplicate.

The field duplicate evaluation of SED-Y-3 shows outlying correlations for 4,4'-DDD, 4,4'-DDE, an 4,4'-DDT. Results for these analytes in the parent sample and the duplicate are qualified as estimated.

Results of the field blank of 9/29/06 are qualified as estimated, and may have a low bias, due to elevated temperature at sample receipt (14.5°C).

TCL Dioxin/Furan Analyses by USEPA SW846 8290

Results of the field blank of 9/29/06 are qualified as estimated, with a possible low bias, due to elevated temperature at original laboratory sample receipt (14.5°C).

Detected results for samples that were reported with the laboratory "A" qualifier reflect quantitative values below the established linear range of the instrument, and have therefore been qualified as estimated in value.

The method and field blanks contain low levels (below CRDL) of many of the PCDD and PCDF isomers. Field samples containing detected levels of those compounds that are below fivefold of the associated blank concentrations (at the instrument level) are considered potential external contamination. Those detections have been noted as being Estimated Maximum Potential Concentrations (EMPCs). It can be said that these analytes are not present at levels above those originally reported concentrations.

Results for furans that may include quantitative contribution from the corresponding chlorinated biphenyl ethers (BPE) have been noted as being EMPC. They may reflect false positives or a high bias.

Sample responses showing outlying ion ratios do not meet the requirements for identification and have been noted as being EMPC.

Detected results reported with the "Q" laboratory qualifier have been qualified as estimated due to quantitative interferences.

Sample SED-D-3-0-0.5 exhibited an elevated recovery (146%) for recovery standard $^{13}C_{12}$-OCDD. Therefore, the results for associated analyte OCDD are considered additionally estimated in value (all results for that sample are qualified due to low solids content).

The ion ratio of the surrogate standard $^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD in LM-E-3 shows an ion ratio out of acceptable range. The results for this sample are qualified as estimated due to low solids content.

LM-F-2 was re-extracted within holding time. Although the data package only submitted the re-extraction results, the electronic table shows two analysis results. The initial results were deleted from the electronic table.

Matrix spikes were performed on LM-A-3, SW-W, SED-W-3-0-0.5 and show acceptable recoveries and duplicate correlations, with the following exceptions:

- LM-A-3 –two analytes show outlying recoveries in only one spike; three show outlying duplicate correlations. Results for the parent are qualified as estimated due to low solids content
- SED-W-3-0-0.5---OCDD shows elevated recoveries; results for the parent are qualified as estimated due to low solids content
- SED-C-3-0-0.5---these spikes produced nine and ten outlying recoveries and nine outlying duplicate correlations. This is attributed to the matrix. It is also noted that the solids content of the parent sample is 25%, and that for the spikes are 33% and 35%. Sample non-homogeneity is suspected. All results are qualified due to solids content.

Field duplicates of SW-Y, SED-Y-3, SED-W-1-0-0.5, and LMC-2 show acceptable correlations (below 50%RPD or <±CRDL), with the following exceptions, results for which are qualified in the parent sample and its corresponding duplicate:

- Numerous PCDD and PCDF isomers show poor correlations (66%RPD to 200%RPD) in SED-Y-3. All results for that pair are qualified as estimated due to low solids content.
- Six PCDD and PCDF isomers show variances fourfold to fivefold in SED-W-1-0-0.5. All results for that pair are also qualified as estimated due to low solids content.

The date on the method blank summary form for samples in SDG J43207 should have stated the date of 10/18/06, not 10/17/06. The raw data for that blank are correct.

Due to the matrix, sample SED-C-2-0.5-1.0 would not evaporate down to the protocol required volume. This results in elevated reporting limits for undetected compounds.

Detections of 2,3,7,8-TCDF were confirmed by alternate column analyses.

TAL and AVS/SEM Metals by USEPA SW846 6010B, 7470/7471

Results for the AVS/SEM in the field blank of 10/05/06 have been qualified as estimated due to the fact it was not received at the laboratory with adequate preservation.

Holding times were met. Blanks associated with sample analyses show no contamination above the reporting limit.

Matrix spike recovery and laboratory duplicate correlation evaluations were performed for TAL elements on SW-D, SW-W, SED-Z-1, SED-Z-2-0-0.5, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-E-2-1.0-1.5, SED-C-3-0-0.5, SED-B-1-0-0.5, and SED-9, for AVS/SEM processing on SED-Z-2-0-0.5, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-C-3-0-0.5, and SED-9, and for low level total mercury on .

Mercury failed to recover from the SEM digestions for SED-Z-1, SED-E-1-0-0.5, SED-C-3-0-0.5, and SED-9. Results for that element in the SEM fraction of the samples reported in SDGs J42535, J42838, J43022, J43207, J43284, and J43443 that report no detection of mercury are not usable. Detected SEM mercury results in those SDGs are qualified as estimated.

Other recoveries or correlations for the matrix spikes/duplicates that are outside validation guidelines (75% to 125% recovery, 50%RPD) are noted below, with qualification of results as estimated in the indicated samples:

Parent Sample	Analyte	Recoveries	Associated Samples
SED-Z-1	antimony	34% and 34%	Soils in J42535
SED-Z-1	SEM copper	65% and 63%	AVS/SEM in J42535
SED-Z-2-0-0.5	aluminum	126% and 128%	Soils in J42535
	antimony	55% and 55%	"
	copper	136% and 133%	"
SED-W-3-0-0.5	iron	118% and 586% (69%RPD)	Soils in J42762
	aluminum	139% and 105%	"
	antimony	47% and 44%	"
	calcium	70% and 66%	"
	magnesium	131% and 89%	"
	potassium	128% and 84%	"
	manganese	103% and 149%	"
	zinc	104% and 132%	"
	mercury	83% and 54%	"
SED-W-3-0-0.5	SEM cadmium	75% and 70%	AVS/SEM in J42762, J42866, J43022
	SEM lead	198% and 170%	" detections
	SEM zinc	249% and 191%	" detections
SED-E-1-0-0.5	antimony	65% and 65%	Soils in J42838
	barium	10% and 45%	"
	copper	42% and 50%	"
	iron	169% and 70%	"
	magnesium	277% and 208%	"
	manganese	200% and 92%; 62%RPD	"
	potassium	132% and 84%	"
	selenium	70% and 73%	"
	sodium	23% and 90%	"
	calcium	97%RPD	"
SED-E-1-0-0.5	SEM copper	65% and 63%	AVS/SEM in J42838
SED-F-2-0-0.5	antimony	36% and 36%	Soils in J42866
	cadmium	64% and 77%	"
SED-E-2-1.0-1.5	antimony	34% and 33%	Soils in J43022
	silver	275%; 100%RPD	"
	calcium	141%RPD	"
	zinc	71%RPD	"

Parent Sample	Analyte	Recoveries	Associated Samples
SED-C-3-0-0.5	antimony	25% and 29%	Soils in J43207 & J43284
	barium	212% and 250%	"
	cadmium	163% and 78	"
	copper	126% and 494%	"
	chromium	95% and 154%	"
	lead	203% and 108%	"
SED-B-1-0-0.5	aluminum	73% and 90%	"
	antimony	22% and 20%	"
	arsenic	66% and 65%	"
	beryllium	51% and 42%	"
	chromium	27% and 30%	"
	cobalt	70% and 68%	"
	manganese	52% and 56%	"
	nickel	68% and 68%	"
	selenium	68% and 67%	"
SED-C-3-0-0.5	SEM copper	-59% & -55%;74%RPD	AVS/SEM J43207+J43284
	SEM lead	-4% and –20%	"
SED-9	antimony	47% and 50%	Soils in J43443
	magnesium	174% and 108%	"
SED-9	SEM copper	-70% and -61%	AVS/SEM in J43443

Elevated recoveries for elements not detected in the samples do not require qualification of associated data.

The three soil samples reported in SDG J41738 were associated with non-project batch QC that showed seven analytes having low recoveries and ten analytes having outlying duplicate correlations. All results for the samples in that SDG are already qualified as estimated due to low solids content.

Results for all AVS/SEM results in SED-C-3-0-0.5 are qualified as estimated due to low recoveries (60% to 58%) in the volatile sulfide procedure.

Field duplicate evaluations were performed for on SW-B, SW-Y, SED-W-1-0-0.5, SED-F-3-0-0.5, LM-C-2, and LM-D-4, for SEM metals on SED-W-1-0-0.5 and SED-Y-3, and for low level total mercury on SW-B and SW-C. The following outliers were observed, with resultant qualification of that element as estimated in the specific parent sample and associated duplicate:

- mercury in SB-B (66%RPD)
- the field duplicate of SED-W-1-0-0.5 (logged into the laboratory with the suffix "B" to the lab ID number ten days after receipt) shows no detection of any of the analytes; this is atypical of the project soil SEM results. The parent sample shows normal constituency. The reason for the duplicate sample variance is not evident.
- lead and mercury in SED-F-3-0-0.5
- AVS/SEM cadmium in SED-F-3-0-0.5
- aluminum, chromium, and zinc (52%RPD to 74%RPD) in LM-C-2
- barium (55%RPD) in SED-Y-3

The ICP serial dilutions of SEM metals on SED-W-3-0-0.5 and SED-C-3-0-0.5, and of total metals on SED-E-1-0-0.5 and SED-E-2-1.0-1.5 show acceptable correlations.

The following ICP serial dilution evaluations show outlying correlations, with detected results in associated samples qualified as estimated ("J"):

Parent Sample	Analyte	%RPD	Associated SDGs
SW-D	potassium	12	J42011
SW-W	potassium	16	J42360
SED-Z-1	potassium and sodium	12 and 16	J42535
SED-Z-2-0-0.5	lead, magnesium, potassium, and sodium	12 to 16	J42535
SED-Z-1	SEM lead	17	AVS/SEM J42535
SED-E-1-0-0.5	SEM lead	17	AVS/SEM J42838
SED-W-3-0-0.5	cobalt, lead, nickel, sodium, and zinc	11 to 15	J42762
SED-F-2-0-0.5	sodium and zinc	10 to 12	J42866
SED-9	sodium and zinc	10 to 12	J43443
SED-C-3-0-0.5	barium, cobalt, vanadium, and zinc	11 to 28	J43207
SED-B-1-0-0.5	arsenic, cadmium, calcium, chromium, cobalt, copper, lead, magnesium, manganese, nickel, potassium, sodium, and zinc	11 to 22	J43207
SED-9	SEM cadmium and lead	11 and 12	AVS/SEM J43443

The result for sodium in the field blank of 9/21/06 is qualified as estimated ("J"), with a low bias, due to low recovery for the associated low-level CRI standard.

The result for arsenic in the samples reporting detection in SDG J42011 are qualified as estimated ("J"), with a high bias, due to elevated recovery for the associated low-level CRI standard.

The results for mercury in the field blank of 09/29/06 and in the SEM fractions of the soils in J42762, J42866, and J43284 are qualified as estimated ("J"), with a low bias, due to low recoveries for the associated low-level CRI standards.

The result for antimony in the field blank of 10/02/06 is qualified as estimated ("J"), with a low bias, due to low recovery for the associated low-level CRI standard.

The results for arsenic in SED-Z-2-0-0.5, and in all soil reported in J42866 except SED-F-2-0-0.5, are qualified as estimated ("J"), with a high bias, due to elevated recoveries in the associated low-level CRI standards.

Wet Chemistry- Methyl Mercury, Cyanide, Hexavalent Chromium, TOC, Seive, Redox Potential (ORP), TSS, DOC, Hardness, pH

Review was conducted for method compliance, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure.

Hexavalent chromium failed to recover in the matrix spikes of LM-A-1, SED-Z-1, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-F-1-0-0.5, SED-E-2-0-0.5, SED-C-3-0-0.5, SED-B-1-0-0.5, SED-A-1-0-0.5, SW-C, and SED-9. Therefore, all non-detected results for that analyte in soils are rejected, and provide no usable information as to the presence or absence of that analyte. Detected values are qualified as estimated, and may have a significant low bias. Although those data are rejected, it can be said that the total chromium of the samples would represent a maximum potential value for hexavalent chromium.

The following matrix spike recovery/laboratory duplicate evaluations were performed:

- TOC in LM-A-2 and LM-F-3
- hexavalent chromium in LM-A-1, SW-A, SED-Z-1, SED-W-3-0-0.5, SED-E-1-0-0.5, SED-F-1-0-0.5, SED-E-2-0-0.5, SED-C-3-0-0.5, SED-B-1-0-0.5, SED-A-1-0-0.5, and SED-9
- Redox Potential on LM-A-1 and SED-Z-1
- cyanide, TOC, DOC, TSS, and Hardness on SW-D and SW-W
- cyanide on SED-Z-2-1-1.5, SED-W-1-0-0.5, SED-D-2-2.0-2.5, LM-F-1, SED-9, and SED-A-2-0-0.5
- Sieve duplicates on SED-X-3, SED-W-3-0-0.5, SED-F-1-0-0.5, SED-E-2-0.5-1.0, SED-C-3-0-0.5, SED-B-1-0-0.5, SED-9, and SED-A-1-0-0.5
- cyanide, hexavalent chromium, Redox Potential, solids, and ph on SED-W-1-0-0.5
- cyanide and TOC on SED-E-1-0-0.5 and SED-C-3-0-0.5
- methyl mercury on LM-A-2, SW-D, SED-Z-1, SED-W-3-0-0.5, SED-E-2-0-0.5, FB100506, SED-C-3-0-0.5, SED-B-1-0-0.5, and SED-9

The result for cyanide in SED-9 is rejected and not usable due to very low recovery (7%) in the matrix spike of that sample.

Outlying matrix spike recoveries or duplicate correlations (in addition to the hexavalent chromium and cyanide outliers noted above) are listed below, with qualification of results as estimated in the indicated samples:

Parent Sample	Analyte	Associated Samples
SED-Z-2-1-1.5	Cyanide	soils in SDG J42535
SED-F-1-0-0.5	Gravel	parent sample
SED-E-2-0.5-1.0	Gravel	parent sample
SED-C-3-0-0.5	Gravel	parent sample
SED-B-1-0-0.5	Gravel	parent sample
SED-C-3-0-0.5	Cyanide and TOC	soils in SDG J43207
SED-A-1-0-0.5	Gravel	parent sample
SED-9	Gravel and methyl mercury	parent sample

The accuracy and precision evaluation for methyl mercury in LM-A-2 was repeated due to initial spiking error.
Some of the analyte recovery evaluations are not applicable due to high parent sample concentrations.

Field duplicate evaluations were performed for the following sample analytes.

- methyl mercury and total mercury in SW-B and SW-C
- methyl mercury on LMC-2, SED-Y-3, SED-W-1-0-0.5, SED-F-3-0-0.5, and LM-D-4
- TSS, hexavalent chromium, TOC, DOC, Hardness on SW-B and SW-Y
- Redox Potential, TOC, hexavalent chromium, sieve, and cyanide on SED-F-3-0-0.5, SED-Y-3, LM-D-4, and LM-C-2

Outliers were observed for the following analytes, with resultant qualification as estimated in the specific parent sample and associated duplicate:

- TSS (78%RPD) in SB-B
- Redox Potential and solids in SED-F-3-0-0.5
- % solids on LM-C-2
- No. 200 Sieve, %Silt, and Redox Potential on LM-D-4

The samples submitted in J42011 and the field blank of 9/21/06 (J41741) showed inadequate preservation at laboratory receipt. Results for these samples are therefore qualified as estimated, with a potential low bias.

The result for methyl mercury in the field blank of 9/29/06 is qualified as estimated due to elevated temperature at sample receipt (14.5°C).

Results for TOC in LM-D-3, LM-D-4, SED-7, and SED-8 are qualified as estimated, with unknown bias, due to variance in the result of the replicate injections.

Some of the field blanks show low levels of methyl mercury. Associated aqueous sample detected values are of high enough concentration to be disregarded as external contamination. Several of the soil samples reported in J42535, SED-E-2-1.5-2.0, SED-C-2-1.0-1.5 show levels within the action range for consideration as contamination, and have been edited to reflect non-detection at elevated reporting limits.

Samples SED-Y-1, SED-X-1, and SED-X-3 were received in broken containers that were closed into baggies. These samples are qualified for low solids content, but may also have a low bias due to potential losses.

Data Package Completeness/Chains-of-Custody

The chains-of-custody associated with the subcontracts do not include times of collection. They were present on the original field custodies and bottle labels. Some of the custodies do not include specific entries of release time and/or receipt date and time. The down-arrow for collection date was not present on the custody for J42762.

Some of the custodies for the subcontracting transfer to Battelle do not include release date, release times, and/or receipt signatures. The custody entry for SED-D-1-0-0.5 incorrectly denotes it as being HCl preserved.

The matrix of one of the field blanks on a custody submitted to Paradigm was incorrectly denoted as being soil.

The calibration standard sections of the Paradigm data packages are not paginated

Discrepancies in custody entries were resolved at sample receipt. Edits to custodies should have been dated and initialed.

SW-Y was reported as SW-4 in some of the hardcopy data. Similarly, some of the laboratory report forms show SED-4-3 rather than SED-Y-3. The field blank FB100506 is noted as being FB100S06 on some of the forms. Proper identifications were made on the electronic deliverables.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Att: Validation qualifier definitions
Copies of sample client and laboratory identifications

VALIDATION QUALIFIER DEFINITIONS

DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

U	-	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	-	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	-	The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	-	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	-	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	-	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

R2-0004672

LABORATORY SAMPLE IDs AND CASE NARRATIVES

Data Validation Services

120 Cobble Creek Road P. O. Box 208
North Creek, N. Y. 12853
Phone 518-251-4429
Facsimile 518-251-4428

September 11, 2007

Matt Cavas
Brown and Caldwell
110 Commerce Dr.
Allendale, NJ 07401

RE: Data Validation for the LCP Superfund site, Linden, NJ
Accutest SDG Nos. J44803, J44938, J45239, J45527, J46783, J45854, J46057, J46213, J46443, J46565, J46700, J46853, J47004, J47128, J47366, J48098, J48211, J48325, J49293, J49409, J49451, J49611, J51040, J51158, J51393, J51494, J51580, J51673, J51889, J52021, J52027, J52130, J52219, J52588, J52669, J52751, J52878, J52971, J53104, J53258, J53388, J53483, J53484, J53630, J53740, J53817, J54238, J54435, J54580, J54581, J54589, J54782, J55249, J55249X, J55951, J55951X, J56074, and J57403

Dear Mr. Cavas:

Review has been completed for the data packages generated by Accutest Laboratories that pertain to samples collected 10/26/07 through 3/30/07 at the LCP Superfund, Linden, NJ project site. One hundred and six soil samples and twenty-eight aqueous samples were processed for TCL Volatiles, TCL Semivolatiles, TCL Pesticides, TCL PCBs, TAL metals, hexavalent chromium, and total cyanide. The soil samples were also processed for TOC and Redox Potential, and the aqueous samples were also processed for filtered metals. Twelve of the soil samples were also processed for Dioxin/Furans (PCDD/PCDF). Twenty-four of the samples were also processed for methyl mercury. A total of thirty samples were processed only for mercury (total or filtered). Four aqueous and one soil sample were analyzed only for metals. Aqueous samples also underwent Selective Ion Monitoring (SIM) for selected semivolatile analytes in order to obtain better sensitivity and lower reporting limits. Blind field duplicates, sample matrix spikes, field blanks, and trip blanks were processed with the project samples. The specific sample location identifications covered in this report are noted in the attached laboratory summary listings.

The analytical methodologies utilized are those of the USEPA SW846 3rd edition and USEPA Standard Methods. The dioxin/furan analyses were subcontracted to SGS/Paradigm, the methyl mercury to Battelle Marine Sciences.

Validation review of the data packages has been performed utilizing the guidance in the USEPA National Functional Guidelines for Data Review, the USEPA Region II validation SOPs, the project QAPP (including laboratory SOPs), the specific methodology requirements, and professional judgment.

The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times
* Surrogate Recoveries and Internal Standard Responses
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration Blanks
* Control Spike/Laboratory Control Samples
* Instrumental Tunes
* Calibration/CRI/CRA Standards
* ICP Serial Dilution
* ICP Interference Check Samples
* Dioxin/Furan Recovery and Clean-Up Standards
* Instrument IDLs and Performance
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable according to the validation guidelines noted above.

In summary, most of the sample analyte values/reporting limits are usable as reported, or usable with minor qualification as estimated ("J" qualifier) due to matrix effects. The following exceptions were noted:

- Due to matrix effect, the results for hexavalent chromium in numerous samples are not usable, as evidenced by the lack of recovery of that analyte in the sample spikes.
- Results for several select volatile or semivolatile compounds are not usable in a limited number of samples due to matrix effects
- Numerous metals results of soil and aqueous samples were qualified as estimated due to matrix effects
- Reporting limits for metals in many of the aqueous samples are elevated, typically tenfold, due to interferences, primarily from sodium constituency
- Some of the low level detections are considered external contamination, as evidenced by presence in associated blank

Laboratory processing was generally compliant with analytical protocol requirements, the samples do not show significant matrix effects on organic target analyte recoveries, and the project data completeness requirement of 90% has been met.

Copies of the laboratory sample identification summary forms that list the sample covered in this report are attached to this text. Included with this submission are electronic client data tables that have been qualified in red to reflect the edits and qualifications referenced and recommended within this report. These tables have been submitted under separate cover.

The following text discusses quality issues of concern.

General

Due to low solids content (20.8%), results (both detected values and the reporting limits of non-detected analytes) for LHP-126-10.5-12 have been qualified as estimated, with a possible bias of an unknown direction. This is due to the potential for non-homogeneity during sample collection/processing, as well as to the variances in analytical methodologies betweennn aqueous and soil matrices.

Field and trip blanks submitted with the samples covered in this report show minimal contamination, with most having no contamination above reporting limits. The rare exceptions where sample results are affected are noted in the following text.

Sample LHP-105-1-3 was reported by the laboratory in the data package as "LHP-105-13-1". The electronic tables are correct.

TCL Volatiles by USEPA SW846 8260B

Results for toluene in MW-13S and MW-18S are considered external contamination due to presence I the associated field blank, and are edited to non-detection.

Matrix spikes (MS and MSD) for MW-6D-12-14, MW-16D-17-19, LHP-111-0-1, LHP-105-1-3, ADS-102-7-8, MW-11D-12-14, MW-23D, MW-9S, MW-24S, H-B-105D, and MW-22S show accuracy and precision within QAPP/validation guidelines, with the following exceptions:

- bromomethane in MW-11D-12-14—that result in the parent sample is qualified as estimated
- numerous analytes show elevated duplicate correlations in MW-23D. The sample reports no detections, and reported results are unaffected.
- carbon disulfide, 1,1-dichloroethene, and trans-1,2-dichloroethene in MW-24S show low recoveries

Field duplicate correlations for WW-101-15-17, MW-16D-17-19, MW-25D-10-12, LHP-105-0-1, LHP-128-0-1, MW-7S, and MW-19S are acceptable, with the exception of that for methylene chloride (>±CRDL) in WW-101-1115-17. Results for that analyte in the parent sample and duplicate are qualified as estimated.

Calibrations standards show acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated samples:

- acetone and/or 2-butanone (low RRF) in the majority of the sample covered in this report
- bromomethane in MW-11D-12-14
- chloromethane in MW-18S
- carbon disulfide and bromoform in HB-102B and HB-102C

No qualification is made for analytes that show elevated responses in calibration standards but were not detected in the samples.

The results for the trip blank reported in SDG J46700 are qualified as estimated due to analysis beyond the QAPP holding time requirement.

The results for TB020207 are qualified as estimated due to bubbles present in the vials, and the potential of loss through headspace.

No volatile field or trip blank analysis was associated with HB-102A. The sample reports no detection of volatile compounds, and results are therefore not affected.

Tentatively Identified Compounds (TICs) that are flagged as "B" or identified as "system artifacts" are considered external contamination, as shown by presence in the associated blanks.

TCL Semivolatile Analyses by USEPA SW846 8270C

The three soils reported in SDG J44803 and six soils in J48098 show outlying low responses for one or more internal standards. The results for specific target analyte compounds associated with the outlying standards have been qualified as estimated in those samples.

Four soil samples reported in J48325 show sufficiently low responses for internal standard d12-perylene that results for non-detected analytes associated with that internal standard have been rejected, and are not usable. For those samples, detected results associated with d12-perylene, as well as all results associated with d12-chrysene, have been qualified as estimated.

Six detected results in TES-4-0-1 have been qualified as estimated due to elevated response of the associated internal standard.

Results for benzaldehyde in WW-101-15-17, its field duplicate, MW-23D-15-17, and MW-14D-17-19 are not usable due to lack of recovery of this compound in the associated spiked blank controls.

The results for 2-methylphenol MW-23D-15-17 and MW-14D-17-19 are qualified as estimated due to low recovery in the associated spiked blank control.

MW-17D and MW-17S were re-extracted beyond allowable holding time, due to low recoveries for seven analytes in the associated spiked blank control. The initial results are used, with results for those compounds qualified as estimated. Additionally, the result for 2-chlorophenol in MW-17D and the detected values in MW-17S (they are derived from the re-extractions) are qualified as estimated due to the outlying holding time.

MW-16S was re-extracted due to a single low surrogate recovery. The initial result can be used without qualification.

The results for 2-chlorophenol in the soil samples reported in SDG J47004, and for 2,4,6-trichlorophenol in the soils reported in J48098 are qualified as estimated due to slightly low recovery in the associated spiked blank control.

Field duplicate correlations for WW-101-15-17, MW-16D-17-19, MW-25D-10-12, LHP-105-0-1, LHP-128-0-1, MW-7S, and MW-19S are acceptable, with the exception of that for bis(2-ethylhexyl)phthalate in LHP-105-0-1, which shows variance exceeding ±2XCRDL. The results for that analyte in the parent sample and duplicate have been qualified as estimated.

Matrix spikes (MS and MSD) for LHP-124-2-4, LHP-124-10-12, MW-6D-12-14, MW-25D-10-12, LHP-111-0-1, LHP-105-1-3, LB-103-0-1, MW-11D-12-14, MW-11D-16-18, MW-17D, MW-16D, MW-21D, MW-6D, MW-7S, MW-8S, MW-12S, MW-9S, MW-22S, and H-B-104B show accuracy and precision within validation guidelines, with the following exceptions:

- benzaldehyde and hexachlorocyclopentadiene failed to recover in LHP-124-2-4 and hexachlorocyclopentadiene failed to recover in LHP-109-7-9. Results for those specific compounds in the noted parent samples are therefore rejected, and not usable
- benzaldehyde, hexachlorocyclopentadiene, atrazine, 3,3-dichorobenzidine, and caprolactum failed to recover in LHP-109-7-9. Results for those specific compounds in the parent sample are therefore rejected, and not usable. The result for 4-chloroaniline in this parent sample is qualified as estimated due to outlying spike recoveries.
- benzaldehyde failed to recover in DUP02070, and the results for that compound in the field duplicate and parent sample are rejected. The result for phenol is qualified as estimated in that parent and duplicate because the matrix spike responses were not resolved from those of aniline the spikes.
- bis(2-ethylhexyl)phthalate in LHP-124-2-4 shows elevated recoveries; results in the parent sample are qualified as estimated
- five analytes did not recover in the spikes of LHP-111-0-1, but they were analyzed at tenfold dilution. Accuracy and precision for the other analytes were acceptable; no qualification is indicated
- 4,6-nitro-2-methylphenol in LHP-109-0-1 is qualified as estimated due to low recovery
- some of the SIMs matrix spikes show slightly outlying recoveries, but were inadvertently spiked at concentrations exceeding instrument linear range; no qualification is made
- MW-23D shows elevated duplicate correlations for more than thirty analytes; the recoveries are acceptable, and the parent sample shows no detections; no qualification is made
- matrix spikes of MW-12S exhibited elevated duplicate correlations for all but one analyte. This variance was also noted in the surrogate recoveries of the spikes, and is likely an extract-specific anomaly—no qualification is made
- benzo(k)fluoranthene in MW-12S
- five analytes show low recovery in the matrix spikes of MW-22S, and have been qualified as estimated in the parent sample

The results for the field blank of 12/05/06 are qualified as estimated, with a possible low bias, due to outlying holding time to extraction.

Due to presence in the associated field blank, the detected results for bis(2-ethylhexyl)phthalate in H-B-103A and H-B-104A, and for 2-methylnaphthalene inn HB-102B, are considered external contamination, and edited to reflect non-detection ("U").

Calibrations standards showed acceptable responses with laboratory requirements and validation guidelines, with the following exceptions, results for which are qualified as indicated in the noted samples:

- hexachlorocyclopentadiene in MW-17D-15-17, MW-17D-17-19, FB102706, FB110807, LHP-113-0-1, LHP-106-0-1, LHP-119-0-1, TES-4-0-1, TES-1-0-1, FB121406, FB121806, MW-15S, MW-24S, FB022007, and HB-102C
- bis(2-ethylhexyl)phthalate detections in soils in J44803
- 2,4-dinitrophenol and 4-nitrophenol in FB103106
- hexachlorocyclopentadiene, 2,4-dinitrophenol, and 4-nitrophenol in MW-20D-32-34 and MW-20D-36-38
- hexachlorocyclopentadiene and 4,6-dinitro-2-methylphenol in FB111006
- hexachlorocyclopentadiene, benzaldehyde, and 2-methylphenol in FB111306
- 2-methylphenol in FB111506
- 2-chlorophenol, 2,4,6-trichlorophenol, and 1,1-biphenyl in soils reported in J46853
- hexachlorocyclopentadiene, hexachlorobutadiene, and 1,1-biphenyl in FB111606
- hexachlorocyclopentadiene and 2,4-dinitrophenol in four samples in J48325,
- pentachlorophenol in MW-17D, MW-17S, MW-18D, MW-16S, MW-14S, and the associated field blanks
- 4-nitrophenol in MW-18D and its field blank

Tentatively Identified Compounds (TICs) that are flagged as "B" and/or "A", or identified as "system artifacts" are considered external contamination, as shown by presence in the associated blanks.

TCL PCB/Pesticides Analyses by USEPA SW846 8081A and 8082

Samples MW-8S and MW-12S show very high concentrations of elemental sulfur (also noted in the BNA analysis TIC results). Although the extracts went through copper cleanup, there is still sufficient copper as to produced significant interferences in the pesticide and PCB analyses of those samples. These would have completely masked response for heptachlor on both analytical columns used in these analyses, and results for that compound are therefore rejected, and not usable in those samples. Results for the other pesticides and PCB analytes (they report no detection) are qualified as estimated in value, and should be considered as being borderline usability.

Some of the pesticide reported detections may reflect responses from the sample matrix or PCB components. Those detections show elevated dual column correlations, with resulting qualifications as either estimated in value ("J"), tentative in identification and estimated in value ("NJ"), or edited to nondetection ("U", sometimes at elevated reporting limits). The correlations reported on summary forms by the laboratory were calculated as %RPD. Per validation protocols, this review evaluation utilized %D. The appropriate qualifications have been made on the client results tables.

MW-16D-13-15 and LHP-122-0-1 produced low recoveries for all surrogates in the initial extractions. The re-extractions were beyond allowable holding time. The pesticide and PCB results are qualified as estimated, and likely have a low bias.

The results for the field blank of 12/18/06 are qualified as estimated, with a possible low bias, due to outlying holding time to extraction.

The field blanks FB112006 and FB020207 were re-extracted (beyond holding time) due to low surrogate recovery on one column. The initial alternate column responses were acceptable, and are used without qualification.

Calibration standards meet protocol and validation requirements.

Matrix spikes of pesticides and Aroclors 1016 and 1260 were performed on LHP-124-10-12, MW-6D-12-14, MW-25D-10-12, LHP-105-1-3, MW-11D-16-18, MW-16S, MW-23D, H-B-105C, and MW-22S. Matrix spikes of pesticides were performed on LHP-101-0-1 and LHP-109-7-9, and matrix spikes of Aroclors 1016 and 1260 on LHP-105-5-8 and LHP-121-0-1. They show acceptable accuracy and precision, with the following exceptions:

- several recoveries were elevated in LHP-105-1-3 due to high concentrations of Aroclor 1254 in the parent sample.
- seven pesticides show low recoveries in MW-16S spikes, and results for those compounds in the parent sample are qualified as estimated in value
- recoveries were elevated in some cases for analytes not detected in the samples due to interferences; no qualifications are made as a result

Due to slightly low recoveries in the associated spiked blank controls, the results for d-BHC in the soils reported in J49409, and in the aqueous samples in J51494, J51580, J51673, J51889, J52021, and J52219 are qualified as estimated, with a possible low bias.

Field duplicate correlations for WW-101-15-17, MW-16D-17-19, LHP-128-0-1, MW-7S, and MW-19S are acceptable.

The field duplicate correlations for Aroclors 1254 and 1260 in LHP-105-0-1 show variance where there were detections in the parent at levels above CRDL (up to 629 ug/kg), but no detections above the CRDL of 35 ug/kg in the duplicate. Those results have been qualified as estimated in the parent and its duplicate.

TES-3-0-1 shows elevated surrogate recoveries in the pesticide and PCB analyses due to interferences from the PCBs in the sample. No qualification is made.

TCL Dioxin/Furan Analyses by USEPA SW846 8290

Detected results for samples that were reported with the laboratory "A" qualifier reflect quantitative values below the established linear range of the instrument, and have therefore been qualified as estimated in value.

Results for furans that may include quantitative contribution from the corresponding chlorinated biphenyl ethers (BPE) have been noted as being EMPC. They may reflect false positives or a high bias.

The method and field blanks contain low levels (below CRDL) of many of the PCDD and PCDF isomers. Field samples containing detected levels of those compounds that are below fivefold of the associated blank concentrations (at the instrument level) are considered potential external contamination. Those detections have been noted as being Estimated Maximum Potential Concentrations (EMPCs). It can be said that these analytes are not present at levels above those originally reported concentrations.

Sample responses showing outlying ion ratios do not meet the requirements for identification and have been noted as being EMPC.

Detected results reported with the "Q" laboratory qualifier have been qualified as estimated due to quantitative interferences.

TAL Metals by USEPA SW846 6010B, 7470/7471

As noted earlier, reporting limits for many aqueous sample analytes are elevated due to matrix interference. Although this results in limits that are higher than those proposed, this occurs only in samples showing extremely high concentrations of sodium and other elements.

Sample LCP-231-SS112706 was reported on a wet weight basis. A minimal quantity of sample was submitted; no solids determination was performed. The "as-received" basis should be considered in the evaluation of those data.

Analytes showing matrix spikes recoveries that are outside validation guidelines are noted below, with qualification of results as estimated in the samples in the indicated samples:

Parent Sample	Analyte	Associated Samples
LHP-126-2-4	aluminum, barium, beryllium, cobalt, potassium, and sodium	J44803
LHP-125-.5-2	antimony, copper, lead, magnesium, manganese, and zinc	J44938
LHP-125	antimony, barium, manganese	J45239
LP-101-11-13	antimony	J45527
WWT-101-21-23	antimony	J45783
MW-6D-12-14	aluminum, antimony, barium, cadmium, chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, and vanadium	J45854
MW-20D-12-14	antimony, manganese, iron, potassium, and mercury	J46057
MW-20D-36-38	antimony, arsenic, calcium, chromium, manganese, potassium, selenium, zinc	J46213
MW-14D-13-15	antimony, barium, iron, manganese	J46443
MW-23D-15-17	antimony, manganese, iron, magnesium	J46565
MW-23D-37-39	antimony and selenium	J46700, J46853, and J47004
MW-6D-30-32	antimony, aluminum, barium, potassium	J47128 and J47366
LHP-111-0-1	antimony, barium, calcium, magnesium, manganese, zinc	J48098

cont'd

Parent Sample	Analyte	Associated Samples
LHP-105-1-3	antimony and mercury	J48211
LHP-127-3-5	antimony, arsenic, beryllium, chromium, potassium, and mercury (detections)	J48325
MW-11D-16-18	antimony, iron, manganese, selenium	J49293, J49409, and J49611
MW-110-14-16	antimony, iron, manganese, sodium	J49293, J49409, and J49611
TPS-1	sodium	J49451
MW-17D	cadmium and iron	J51040 and J51153
MW-18D	iron, mercury, thallium	J51393, J51494, J51580, and J51673
WC-SOIL-011907B	mercury	J52027
MW-6S	potassium	J52130, J52219, and J52588
MW-23D	potassium	J52669 and J52751
MW-6D	potassium	J52878, J52971, J53104, and J53258,
H-B-105C	mercury	J53484
H-B-103A	antimony and magnesium	J53484 and J54238
SW-SB-2-22-07-1400	mercury	J54435 and J54581
H-B-104B	antimony	J54580 and J54782
HB-101A	antimony	J55249 and J55951
HB-102C	antimony, potassium, thallium	J56074

Laboratory duplicate correlations are acceptable. Matrix spikes for TAL metals on MW-16S, and for mercury on LHP-124-10-12, MW-7S, MW-22S, HB-102B, and DUP110606 show recoveries within recommended limits. Elevated matrix spike recoveries for elements not detected in the samples do not require qualification of associated data.

Field duplicate evaluations were performed for on WW-101-15-17, MW-16D-17-19, MW-25D-10-12, LHP-105-0-1, LHP-128-0-1, MW-7S, and MW-19S, and for filtered mercury in SW-VB-02-23-07-0900. The following outliers were observed, with resultant qualification of that element as estimated in the specific parent sample and associated duplicate:

- barium and manganese inn WW-101-15-17
- zinc in MW-16D-17-19
- mercury in MW-25D-10-12
- iron in filtered fraction of MW-19S

Due to low level detection in the associated field blank, the results for manganese in MW-22S and its filtrate are edited to reflect non-detection at the originally reported concentrations.

The following ICP serial dilution evaluations show outlying correlations, with detected results (greater than 10 X IDL) in associated samples qualified as estimated ("J"):

Parent Sample	Analytes	Associated SDGs
LHP-126-2-4	calcium, cobalt, magnesium, nickel	J44803
LHP-125-.5-2	zinc	J44938
LHP-125	aluminum, barium, beryllium, calcium, potassium and zinc	J45239
LP-101-11-13	calcium, chromium, cobalt, copper, nickel, zinc	J45527
WWT-101-21-23	calcium, chromium, cobalt, iron, manganese, sodium, vanadium, and zinc	J45783
MW-6D-12-14	barium, cadmium, cobalt, iron, nickel, potassium, sodium	J45854
MW-20D-12-14	copper	J46057
MW-20D-36-38	aluminum, barium, calcium, chromium, cobalt, iron, magnesium, manganese, nickel, potassium, sodium, vanadium, zinc	J46213
MW-14D-13-15	aluminum and beryllium	J46443
MW-23D-37-39	beryllium, chromium, manganese, nickel, potassium sodium, vanadium, zinc	J46700, J46853 and J47004
MW-6D-30-32	nickel and sodium	J47128 and J47366
LHP-105-1-3	arsenic, barium, beryllium, calcium, chromium magnesium, and nickel	J48211
LHP-127-3-5	arsenic, beryllium, calcium, chromium, magnesium, nickel, silver, sodium	J48325
MW-11D-16-18	aluminum, barium, calcium, chromium, cobalt, magnesium, manganese, nickel, potassium, sodium, and zinc	J49293, J49409, and J49611
MW-110-14-16	potassium and sodium	J49293 andJ49409
MW-17D	potassium	J51040 and J51153
MW-18D	copper, potassium, sodium	J51153, J51494, J51580, and J51673
MW-16S	manganese and potassium	J51889 and J52021
MW-6S	potassium	J52130, J52219, and J52588
MW-23D	iron and potassium	J52669 and J52751
MW-23D-Filt	potassium	J52669 and J52751
MW-6D	potassium and sodium	J52878, J52971, J53104, and J53258
MW-22S-Filt	barium in filtered	J53388, J53483, J53630, J53740, and J53817
H-B-104B	calcium and zinc	J54580 and J54782
HB-101A	cobalt, potassium, and sodium	J55249and J55951

cont'd

Parent Sample	Analytes	Associated SDGs
HB-102C	aluminum, barium, calcium, chromium, cobalt, iron, magnesium, manganese, nickel, potassium, vanadium, and zinc	J56074

The ICP serial dilutions of MW-23D-15-17, LHP-111-0-1, WC-SOIL-011907B, and MW-22S-Total show acceptable correlations.

The following analytes show concentrations higher in the filtered fractions by more than 10%D, and results for those elements have been qualified in both the total and filtered fractions of the indicated samples:

Sample ID	Analytes
MW-17D	cobalt, iron, lead, magnesium, manganese, and sodium
MW-18D	manganese and sodium
MW-16D	calcium, lead, manganese, potassium, sodium
MW-20D	calcium and lead
MW-14D	calcium
MW-14S	sodium
MW-21D	calcium, iron, potassium, sodium
MW-21S	lead and iron
MW-11S	antimony, calcium, iron, lead, magnesium, selenium, and sodium
MW-6D	calcium
MW-7S	potassium
MW-8S	manganese
MW-10S	arsenic
MW-12S	arsenic and manganese
MW-24S	magnesium
MW-15S	barium, nickel, potassium
MW-22S	arsenic

The result for mercury in LHP-125-0.5-2, MW-13S and MW-18S are qualified as estimated, with a low bias, due to low recoveries for the associated low-level CRI standards.

The results for antimony in soils reported in SDG J48211, MW-21S, MW-21D, MW-23S, MW-23D-Filt, and in the field blanks of 11/02/06 and 11/07/06 are qualified as estimated, with a low bias, due to low recoveries for the associated low-level CRI standards.

The result for arsenic in FB111606 is qualified as estimated, with a low bias, due to low recovery in the associated low-level CRI standard.

The results for lead in MW-9S, MW019S, DUP020707, and FB121506 are qualified as estimated, with a low bias, due to low recovery in the associated low-level CRI standards.

The result for thallium in the filtrate of MW-17D is qualified as estimated, with a low bias, due to low recovery in the associated low-level CRI standard.

The results for arsenic and beryllium in MW-24S and MW-15S are qualified as estimated, with a low bias, due to low recovery in the associated low-level CRI standard.

The results for arsenic and antimony in MW-22S and MW-15S (Filt only) are qualified as estimated, with a low bias, due to low recovery in the associated low-level CRI standard.

Detected results for lead in MW-25D, for cadmium in samples reported in J47366, and selenium in MW-11S and MW-11D are qualified as estimated, with a high bias, due to elevated recoveries for the associated low-level CRI standards.

MW-18S was received by the laboratory with incomplete preservation. The sample was preserved at the laboratory. Results are qualified as estimated, and may have a low bias.

Wet Chemistry- Cyanide, Hexavalent Chromium, TOC, Methyl Mercury, Redox Potential (ORP), TSS, pH

Review was conducted for method compliance, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure.

Cyanide recovered below 10% in the matrix spikes of LHP-126-2-4 and LHP-127-3-5. Therefore, the non-detected result for that analyte in the parent samples are rejected, and provide no usable information as to the presence or absence of that analyte. Results for all associated samples (J44803, J44938, J48325, and J48293) are qualified as estimated, and may have a significant low bias.

Hexavalent chromium recovered below 10% in the matrix spikes of MW-6D-12-14, LHP-127-3-5, LHP-105-1-3, MW-20S, MW-14D-Filt, MW-21D-Filt, MW-6D-Filt, MW-10S-Filt, MW-12S-Filt, MW-9S-Filt, and HB-102C. Therefore, the non-detected results for that analyte in the samples in J45854 J48211, J48325, J49409, J51580, J51673, J52021, J52878, J53104, J53258, J53388 and J56074 are rejected, and provide no usable information as to the presence or absence of that analyte. Detected values in those samples are qualified as estimated.

The hexavalent chromium reported result for MW-10S is detection at 10 ug/L. The total chromium result for that sample shows no detection at that level. Because the total chromium analysis is more definitive, it is assumed that the hexachrome detection reflects interferences, and it has therefore been edited to non-detection. Following that edit, the result is rejected due to lack of recovery of the matrix spike of that sample.

Although the hexavalent chromium data are rejected, it can be said that the total chromium values in the samples would represent a maximum potential value for hexavalent chromium.

Field duplicate evaluations were performed on WW-101-15-17, MW-16D-17-19, MW-25D-10-12, LHP-105-0-1, LHP-128-0-1, MW-7S, and MW-19S. Outliers were observed for the following analytes, with resultant qualification as estimated in the specific parent sample and associated duplicate:

- cyanide in WW-101-15-17
- TOC in LHP-105-0-1
- TOC in LHP-128-0-1

The cyanide fraction of MW-18S was received by the laboratory with incomplete preservation. The sample was preserved at the laboratory. The result is qualified as estimated, and may have a low bias.

The following matrix spike/laboratory duplicate evaluations were performed:

- TOC on MW-265-8-10, MW-20D-12-14, MW-23D-15-17, MW-21D-15-17, MW-16D-17-19, LHP-111-0-1, LHP-105-1-3, LHP-127-3-5, MW-11D-16-18, H-B-105C, H-B-104B, H-B-104D, H-B-101A, and HB-102B
- Cyanide on LHP-126-2-4, LHP-125-10-12, WW-101-21-23, MW-6D-12-14, MW-20D-12-14, MW-20D-36-38, MW-14D-13-15, MW-23D-15-17, MW-21D-13-15, MW-16D-17-19, LHP-101-0-1, LHP-105-1-3, LHP-127-3-5, LB-101-0-1, MW-11D-16-18, MW-25D-33-35, MW-17D. MW-17S, MW-18D, MW-20S, MW-14D, MW-14S-Filt, MW-25D, MW-23S, MW-23D, MW-11S, MW-6D, H-B-105C, MW-22S, MW-13S, H-B-103A, H-B-104B, H-B-104D, H-B-101A, HB-102A, and HB-102B
- Hexavalent chromium on MW-6D-12-14, LHP-125-0.5-2, DUP110606, LHP-111-0-1, LHP-127-3-5, LHP-105-1-3, MW-17D-Filt, MW-17S-Filt, MW-18D-Filt, MW-16D, MW-14D-Filt, MW-14S-Filt, MW-21D-Filt, MW-6-Filt, MW-25D, MW-23D, MW-11S, MW-6D-Filt, DUP020107-Filt, MW-10S-Filt, MW-12S-Filt, MW-9S-Filt, MW-22S, MW-13S-Filt, H-B-104B, H-B-104D
- Redox Potential on LHP-125-10-12, LP-101-11-13, MW-14D-13-15, LHP-105-1-3, LHP-127-3-5, MW-11D-16-18, and MW-25D-33-35
- Petroleum hydrocarbon on WC-SOIL-011907B
- Specific Gravity on MW-6D and MW-11D
- TSS on SW-SB-2-22-07-1400
- Methyl mercury on HB-101A

Outlying matrix spike recoveries or duplicate correlations (in addition to the hexavalent chromium and cyanide outliers noted above) are listed below, with qualification of results as estimated in the indicated parent samples:

Parent Sample	Analyte	Associated Samples
MW-265-8-10 TOC		J44803
DUP110606	hexavalent chromium	J45783
MW-6D-12-14	cyanide	J45854
MW-20D-12-14	TOC	J46057
LHP-127-3-5	TOC	J48325
MW-16D	hexavalent chromium	J51494
MW-14S-Filt	hexavalent chromium	J51889
MW-16S-Filt	hexavalent chromium	J52130
MW-25D-Filt	hexavalent chromium	J52219
MW-11S	hexavalent chromium	J52751
DUP020107-Filt	hexavalent chromium	J52971
H-B-105C	TOC	J53484
MW-13S-Filt	hexavalent chromium	J53740
HB-102B	TOC	J56074

Results for TOC in MW-6D-0-2, MW-17D-17-19, MW-16D-13-15, LHP-101-5-8, LHP-120-0-1, H-B-104B, H-B-104C, and nine samples reported in SDG J48325 are qualified as estimated, with unknown bias, due to variance in the result of the replicate determinations.

Data Package Completeness/Chains-of-Custody

Two samples reported in J45239 were submitted and reported with the same client ID (LHP-125). The electronic deliverables distinquishes the two different depths.

Two samples submitted for SDG J45239 were not entered onto the custody form until sample receipt.

The calibration standard sections of the Paradigm data packages are not paginated

Discrepancies in custody entries were resolved at sample receipt. Edits to custodies should have been dated and initialed.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Att: Validation qualifier definitions
Copies of sample client and laboratory identifications

VALIDATION QUALIFIER DEFINITIONS

DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

R2-0004689

CLIENT and LABORATORY SAMPLE IDs

LCP SUPERFUND SITE, LINDEN, NJ

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J44803

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J44803-1	10/26/06	09:12 MC	10/26/06	SO	Soil	MW-265-8-10
J44803-1R	10/26/06	09:12 MC	10/26/06	SO	Soil	MW-265-8-10
J44803-2	10/26/06	15:08 MC	10/26/06	SO	Soil	LHP-126-2-4
J44803-2R	10/26/06	15:08 MC	10/26/06	SO	Soil	LHP-126-2-4
J44803-3	10/26/06	15:17 MC	10/26/06	SO	Soil	LHP-126-8-10
J44803-3R	10/26/06	15:17 MC	10/26/06	SO	Soil	LHP-126-8-10
J44803-4	10/26/06	15:02 MC	10/26/06	AQ	Field Blank Soil	FB102606
J44803-5	10/26/06	15:17 MC	10/26/06	AQ	Trip Blank Soil	TB102606

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@391461 14:35 27-Jul-2007

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J44938

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J44938-1	10/27/06	08:45 MPC	10/27/06	SO	Soil	LHP-125-5-2
J44938-1R	10/27/06	08:45 MPC	10/27/06	SO	Soil	LHP-125-5-2
J44938-1RD	10/27/06	08:45 MPC	10/27/06	SO	Soil Dup/MSD	LHP-125-5-2
J44938-1RS	10/27/06	08:45 MPC	10/27/06	SO	Soil Matrix Spike	LHP-125-5-2
J44938-2	10/27/06	08:53 MPC	10/27/06	SO	Soil	LHP-125-4-6
J44938-2R	10/27/06	08:53 MPC	10/27/06	SO	Soil	LHP-125-4-6
J44938-3	10/27/06	10:32 MPC	10/27/06	SO	Soil	LHP-125-5-2
J44938-3R	10/27/06	10:32 MPC	10/27/06	SO	Soil	LHP-125-5-2
J44938-4	10/27/06	10:43 MPC	10/27/06	SO	Soil	LHP-124-2-4
J44938-4R	10/27/06	10:43 MPC	10/27/06	SO	Soil	LHP-124-2-4
J44938-5	10/27/06	13:15 MPC	10/27/06	SO	Soil	LP-101-8-10
J44938-6	10/27/06	13:50 MPC	10/27/06	AQ	Field Blank Soil	FB-102706
J44938-7	10/27/06	14:30 MPC	10/27/06	SO	Soil	WWT-101-12-14

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J45239

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J45239-1	10/31/06	13:26	JMB	11/01/06	SO	Soil	LHP-124-10-12
J45239-1R	10/31/06	13:26	JMB	11/01/06	SO	Soil	LHP-124-10-12
J45239-2	10/31/06	14:28	JMB	11/01/06	SO	Soil	LHP-124-28-30
J45239-2R	10/31/06	14:28	JMB	11/01/06	SO	Soil	LHP-124-28-30
J45239-3	11/01/06	15:02	JMB	11/01/06	AQ	Field Blank Soil	FB-103106
J45239-4	11/01/06	08:34	JMB	11/01/06	SO	Soil	LHP-125
J45239-4R	11/01/06	08:34	JMB	11/01/06	SO	Soil	LHP-125
J45239-5	11/01/06	08:40	JMB	11/01/06	SO	Soil	LHP-125
J45239-5R	11/01/06	08:40	JMB	11/01/06	SO	Soil	LHP-125
J45239-6	11/01/06	13:10	JMB	11/01/06	AQ	Field Blank Soil	FB110106
J45239-7	11/01/06	13:46	JMB	11/01/06	AQ	Trip Blank Soil	TB110106
J45239-8	11/01/06	13:46	JMB	11/01/06	SO	Soil	LHP-126-14-16
J45239-8R	11/01/06	13:46	JMB	11/01/06	SO	Soil	LHP-126-14-16

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

ACCUTEST

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J45527

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J45527-1	11/02/06	09:48 JMB	11/03/06	SO	Soil	LP-101-11-13
J45527-1R	11/02/06	09:48 JMB	11/03/06	SO	Soil	LP-101-11-13
J45527-2	11/02/06	10:10 JMB	11/03/06	SO	Soil	LP-101-14-16
J45527-2R	11/02/06	10:10 JMB	11/03/06	SO	Soil	LP-101-14-16
J45527-3	11/02/06	11:04 JMB	11/03/06	SO	Soil	LP-101-26-28
J45527-3R	11/02/06	11:04 JMB	11/03/06	SO	Soil	LP-101-26-28
J45527-4	11/02/06	15:03 JMB	11/03/06	SO	Soil	LP-101-50-52
J45527-4R	11/02/06	15:03 JMB	11/03/06	SO	Soil	LP-101-50-52
J45527-5	11/03/06	08:12 JMB	11/03/06	AQ	Field Blank Soil	FB-110206
J45527-6	11/03/06	08:12 JMB	11/03/06	AQ	Trip Blank Soil	TB-110206

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J45783

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J45783-1	11/06/06	11:34 MC	11/07/06	SO	Soil	WWT-101-15-17
J45783-1R	11/06/06	11:34 MC	11/07/06	SO	Soil	WWT-101-15-17
J45783-1RD	11/06/06	11:34 MC	11/07/06	SO	Soil	WWT-101-15-17
J45783-1RS	11/06/06	11:34 MC	11/07/06	SO	Soil	WWT-101-15-17
J45783-2	11/06/06	11:50 MC	11/07/06	SO	Soil	WWT-101-21-23
J45783-2R	11/06/06	11:50 MC	11/07/06	SO	Soil	WWT-101-21-23
J45783-3	11/06/06	00:00 MC	11/07/06	SO	Soil	DUP110606
J45783-3R	11/06/06	00:00 MC	11/07/06	SO	Soil	DUP110606
J45783-4	11/07/06	09:30 MC	11/07/06	AQ	Field Blank Soil	FB110706
J45783-5	11/07/06	09:30 MC	11/07/06	AQ	Trip Blank Soil	TB

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@391527 11:28 29-Jul-2007

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J45854

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J45854-1	11/08/06	08:30 MC	11/08/06	SO	Soil	MW-6D-0-2
J45854-1R	11/08/06	08:30 MC	11/08/06	SO	Soil	MW-6D-0-2
J45854-2	11/08/06	12:00 MC	11/08/06	AQ	Field Blank Soil	FB110706
J45854-3	11/08/06	09:18 MC	11/08/06	SO	Soil	MW-6D-12-14
J45854-3D	11/08/06	09:18 MC	11/08/06	SO	Soil Dup/MSD	MW-6D-12-14
J45854-3R	11/08/06	09:18 MC	11/08/06	SO	Soil	MW-6D-12-14
J45854-3RD	11/08/06	09:18 MC	11/08/06	SO	Soil Dup/MSD	MW-6D-12-14
J45854-3RS	11/08/06	09:18 MC	11/08/06	SO	Soil Matrix Spike	MW-6D-12-14
J45854-3S	11/08/06	09:18 MC	11/08/06	SO	Soil Matrix Spike	MW-6D-12-14
J45854-4	11/08/06	12:00 MC	11/08/06	AQ	Trip Blank Soil	TB110706

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J46057

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46057-1	11/09/06	15:00 MPC	11/09/06	AQ	Field Blank Soil	FB-110906
J46057-2	11/09/06	11:15 MPC	11/09/06	SO	Soil	MW-11D-6-8
J46057-3	11/09/06	11:47 MPC	11/09/06	SO	Soil	MW-11D-10-12
J46057-4	11/09/06	15:27 MPC	11/09/06	AQ	Trip Blank Soil	TB-110906
J46057-5	11/09/06	15:27 MPC	11/09/06	SO	Soil	MW-20D-12-14
J46057-5R	11/09/06	15:27 MPC	11/09/06	SO	Soil	MW-20D-12-14

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J46213

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46213-1	11/10/06	08:11 MPC	11/10/06	SO	Soil	MW-20D-32-34
J46213-1R	11/10/06	08:11 MPC	11/10/06	SO	Soil	MW-20D-32-34
J46213-2	11/10/06	08:40 MPC	11/10/06	SO	Soil	MW-20D-36-38
J46213-2R	11/10/06	08:40 MPC	11/10/06	SO	Soil	MW-20D-36-38
J46213-3	11/10/06	13:52 MPC	11/10/06	AQ	Trip Blank Soil	TB-111006
J46213-4	11/10/06	13:45 MPC	11/10/06	AQ	Field Blank Soil	FB-111006
J46213-5	11/10/06	13:50 MPC	11/10/06	SO	Soil	MW-17D-15-17
J46213-5R	11/10/06	13:50 MPC	11/10/06	SO	Soil	MW-17D-15-17
J46213-6	11/10/06	13:52 MPC	11/10/06	SO	Soil	MW-17D-17-19
J46213-6R	11/10/06	13:52 MPC	11/10/06	SO	Soil	MW-17D-17-19

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@391527 11:48 29-Jul-2007

Sample Summary

Brown & Caldwell

Job No: J46443

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46443-1	11/13/06	15:47 THC	11/14/06	SO	Soil	MW-180-13-15
J46443-1R	11/13/06	15:47 THC	11/14/06	SO	Soil	MW-180-13-15
J46443-2	11/13/06	15:43 THC	11/14/06	SO	Soil	MW-180-17-19
J46443-2R	11/13/06	15:43 THC	11/14/06	SO	Soil	MW-180-17-19
J46443-3	11/14/06	08:10 THC	11/14/06	AQ	Field Blank Soil	FB-111306
J46443-4	11/14/06	14:05 THC	11/14/06	AQ	Trip Blank Soil	TB-111306
J46443-5	11/14/06	10:43 THC	11/14/06	AQ	Field Blank Soil	FB-111406
J46443-6	11/14/06	14:05 THC	11/14/06	SO	Soil	MW-14D-13-15
J46443-6R	11/14/06	14:05 THC	11/14/06	SO	Soil	MW-14D-13-15

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J46565

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46565-1	11/15/06	14:50 THC	11/15/06	SO	Soil	MW-23D-15-17
J46565-1R	11/15/06	14:50 THC	11/15/06	SO	Soil	MW-23D-15-17
J46565-2	11/14/06	14:45 THC	11/15/06	SO	Soil	MW-14D-17-19
J46565-2R	11/14/06	14:45 THC	11/15/06	SO	Soil	MW-14D-17-19
J46565-3	11/15/06	10:31 THC	11/15/06	AQ	Field Blank Soil	FB-111506
J46565-4	11/14/06	14:50 THC	11/15/06	AQ	Trip Blank Soil	TB-111506

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@391860 18:27 30-Jul-2007

Sample Summary

Brown & Caldwell

Job No: J46700

LCP Superfund Site, Linden, NJ

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46700-1	11/15/06	16:40 THC	11/16/06	SO	Soil	MW-23D-37-39
J46700-1R	11/15/06	16:40 THC	11/16/06	SO	Soil	MW-23D-37-39
J46700-2	11/16/06	09:56 THC	11/16/06	AQ	Field Blank Soil	FB-111606
J46700-3	11/16/06	15:23 THC	11/16/06	AQ	Trip Blank Soil	TB-111606
J46700-4	11/16/06	15:23 THC	11/16/06	SO	Soil	MW-21D-13-15
J46700-4R	11/16/06	15:23 THC	11/16/06	SO	Soil	MW-21D-13-15

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J46853

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J46853-1	11/16/06	15:45 THL	11/17/06	SO	Soil	MW-21D-15-17
J46853-1R	11/16/06	15:45 THL	11/17/06	SO	Soil	MW-21D-15-17
J46853-2	11/17/06	10:12 THL	11/17/06	AQ	Field Blank Soil	FB-111706
J46853-3	11/17/06	14:30 THL	11/17/06	SO	Soil	MW-16D-13-15
J46853-3R	11/17/06	14:30 THL	11/17/06	SO	Soil	MW-16D-13-15
J46853-4	11/17/06	14:30 THL	11/17/06	AQ	Trip Blank Soil	TB-111706

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J47004

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J47004-1	11/20/06	11:00 THC	11/20/06	SO	Soil	MW-16D-17-19
J47004-1R	11/20/06	11:00 THC	11/20/06	SO	Soil	MW-16D-17-19
J47004-2	11/20/06	10:30 THC	11/20/06	AQ	Field Blank Soil	FB-112006
J47004-3	11/20/06	15:30 THC	11/20/06	AQ	Trip Blank Soil	TB-112006
J47004-4	11/20/06	15:30 THC	11/20/06	SO	Soil	MW-6D-16-18
J47004-4R	11/20/06	15:30 THC	11/20/06	SO	Soil	MW-6D-16-18
J47004-5	11/20/06	00:00 THC	11/20/06	SO	Soil	DUP112006
J47004-5R	11/20/06	00:00 THC	11/20/06	SO	Soil	DUP112006

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J47128

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J47128-1	11/21/06	14:00 THC	11/21/06	AQ	Field Blank Soil	FB-112106
J47128-2	11/21/06	14:00 THC	11/21/06	AQ	Trip Blank Soil	TB-112106
J47128-3	11/21/06	08:20 THC	11/21/06	SO	Soil	MW-6D-30-32
J47128-4	11/21/06	15:26 THC	11/21/06	SO	Soil	MW-25D-10-12
J47128-5	11/21/06	00:00 THC	11/21/06	SO	Soil	DUP112106

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@391930 10:00 31-Jul-2007

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J47366

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J47366-1	11/27/06	14:45 MPC	11/27/06	AQ	Ground Water	LCP-PW112706
J47366-2	11/27/06	12:00 MPC	11/27/06	SO	Soil	LCP-231-SS112706

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J48098

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48098-1	12/04/06	09:15 MPC	12/04/06	SO	Soil	LHP-101-0-1
J48098-2	12/04/06	09:25 MPC	12/04/06	SO	Soil	LHP-101-5-8
J48098-3	12/04/06	10:12 MPC	12/04/06	SO	Soil	LHP-110-0-1
J48098-4	12/04/06	10:32 MPC	12/04/06	SO	Soil	LHP-111-0-1
J48098-5	12/04/06	10:24 MPC	12/04/06	SO	Soil	LHP-112-0-1
J48098-6	12/04/06	10:40 MPC	12/04/06	SO	Soil	LHP-113-0-1
J48098-7	12/04/06	10:52 MPC	12/04/06	SO	Soil	LHP-114-0-1
J48098-8	12/04/06	11:25 MPC	12/04/06	SO	Soil	LHP-115-0-1
J48098-9	12/04/06	11:06 MPC	12/04/06	SO	Soil	LHP-116-0-1
J48098-10	12/04/06	11:16 MPC	12/04/06	SO	Soil	LHP-117-0-1
J48098-11	12/04/06	13:50 MPC	12/04/06	SO	Soil	TES-2-0-1
J48098-12	12/04/06	14:15 MPC	12/04/06	SO	Soil	TES-3-0-1
J48098-13	12/04/06	14:35 MPC	12/04/06	SO	Soil	230-B-101-0-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@392028 12:33 31-Jul-2007

Sample Summary
(continued)

Brown & Caldwell

Job No: J48098

LCP Superfund Site, Linden, NJ

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48098-14	12/04/06	14:50 MPC	12/04/06	SO	Soil	DSP-101-0-1
J48098-15	12/04/06	15:05 MPC	12/04/06	SO	Soil	LHP-123-0-1
J48098-16	12/04/06	15:25 MPC	12/04/06	SO	Soil	LHP-106-1-3
J48098-17	12/04/06	15:25 MPC	12/04/06	SO	Soil	LHP-106-0-1
J48098-18	12/04/06	09:55 MPC	12/04/06	SO	Soil	LHP-118-0-1
J48098-19	12/04/06	09:46 MPC	12/04/06	SO	Soil	LHP-119-0-1
J48098-20	12/04/06	09:05 MPC	12/04/06	SO	Soil	LHP-120-0-1
J48098-21	12/04/06	13:02 MPC	12/04/06	SO	Soil	LHP-102-0-1
J48098-22	12/04/06	13:55 MPC	12/04/06	SO	Soil	237-102-0-1
J48098-23	12/04/06	14:08 MPC	12/04/06	AQ	Field Blank Soil	FB-120406
J48098-24	12/04/06	15:25 MPC	12/04/06	AQ	Trip Blank Soil	TB-120406

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@392019 12:05 31-Jul-2007

Sample Summary

Brown & Caldwell

Job No: J48211

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48211-1	12/05/06	08:28 MPC	12/05/06	SO	Soil	LHP-107-0-1
J48211-1R	12/05/06	08:28 MPC	12/05/06	SO	Soil	LHP-107-0-1
J48211-2	12/05/06	08:31 MPC	12/05/06	SO	Soil	LHP-107-5-7
J48211-2R	12/05/06	08:31 MPC	12/05/06	SO	Soil	LHP-107-5-7
J48211-3	12/05/06	08:46 MPC	12/05/06	SO	Soil	LHP-105-0-1
J48211-3R	12/05/06	08:46 MPC	12/05/06	SO	Soil	LHP-105-0-1
J48211-4	12/05/06	08:50 MPC	12/05/06	SO	Soil	LHP-105-13-1
J48211-4D	12/05/06	08:50 MPC	12/05/06	SO	Soil Dup/MSD	LHP-105-13-1
J48211-4DR	12/05/06	08:50 MPC	12/05/06	SO	Soil Dup/MSD	LHP-105-13-1
J48211-4R	12/05/06	08:50 MPC	12/05/06	SO	Soil	LHP-105-13-1
J48211-4S	12/05/06	08:50 MPC	12/05/06	SO	Soil Matrix Spike	LHP-105-13-1
J48211-4SR	12/05/06	08:50 MPC	12/05/06	SO	Soil Matrix Spike	LHP-105-13-1
J48211-5	12/05/06	09:28 MPC	12/05/06	SO	Soil	LHP-104-0-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Brown & Caldwell

Job No: J48211

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48211-5R	12/05/06	09:28 MPC	12/05/06	SO	Soil	LHP-104-0-1
J48211-6	12/05/06	09:31 MPC	12/05/06	SO	Soil	LHP-104-7-9
J48211-6R	12/05/06	09:31 MPC	12/05/06	SO	Soil	LHP-104-7-9
J48211-7	12/05/06	10:25 MPC	12/05/06	SO	Soil	TES-4-0-1
J48211-8	12/05/06	10:41 MPC	12/05/06	SO	Soil	LHP-102-0-1
J48211-8R	12/05/06	10:41 MPC	12/05/06	SO	Soil	LHP-102-0-1
J48211-9	12/05/06	10:49 MPC	12/05/06	SO	Soil	LHP-102-7-9
J48211-9R	12/05/06	10:49 MPC	12/05/06	SO	Soil	LHP-102-7-9
J48211-10	12/05/06	11:20 MPC	12/05/06	SO	Soil	ADS-101-0-1
J48211-10R	12/05/06	11:20 MPC	12/05/06	SO	Soil	ADS-101-0-1
J48211-11	12/05/06	11:20 MPC	12/05/06	SO	Soil	ADS-101-1-3
J48211-11R	12/05/06	11:20 MPC	12/05/06	SO	Soil	ADS-101-1-3
J48211-12	12/05/06	11:36 MPC	12/05/06	SO	Soil	ADS-102-0-1.5

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Brown & Caldwell

Job No: J48211

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48211-12R	12/05/06	11:36 MPC	12/05/06	SO	Soil	ADS-102-0-1.5
J48211-13	12/05/06	13:55 MPC	12/05/06	SO	Soil	LHP-103-0-1
J48211-13R	12/05/06	13:55 MPC	12/05/06	SO	Soil	LHP-103-0-1
J48211-14	12/05/06	13:55 MPC	12/05/06	SO	Soil	LHP-103-1-3
J48211-14R	12/05/06	13:55 MPC	12/05/06	SO	Soil	LHP-103-1-3
J48211-15	12/05/06	11:43 MPC	12/05/06	SO	Soil	ADS-102-7-8
J48211-15R	12/05/06	11:43 MPC	12/05/06	SO	Soil	ADS-102-7-8
J48211-16	12/05/06	15:10 MPC	12/05/06	AQ	Field Blank Soil	FB-120506
J48211-17	12/05/06	15:10 MPC	12/05/06	AQ	Trip Blank Soil	TB-120506
J48211-18	12/05/06	00:00 MPC	12/05/06	SO	Soil	DUP-120506
J48211-18R	12/05/06	00:00 MPC	12/05/06	SO	Soil	DUP-120506

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J48325

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48325-1	12/06/06	10:26 MPC	12/06/06	SO	Soil	LHP-109-7-9
J48325-1D	12/06/06	10:26 MPC	12/06/06	SO	Soil	LHP-109-7-9
J48325-1R	12/06/06	10:26 MPC	12/06/06	SO	Soil	LHP-109-7-9
J48325-1S	12/06/06	10:26 MPC	12/06/06	SO	Soil	LHP-109-7-9
J48325-2	12/06/06	10:50 MPC	12/06/06	SO	Soil	LHP-121-0-1
J48325-2D	12/06/06	10:50 MPC	12/06/06	SO	Soil	LHP-121-0-1
J48325-2R	12/06/06	10:50 MPC	12/06/06	SO	Soil	LHP-121-0-1
J48325-2S	12/06/06	10:50 MPC	12/06/06	SO	Soil	LHP-121-0-1
J48325-3	12/06/06	12:17 MPC	12/06/06	SO	Soil	231-101-0-1
J48325-4	12/06/06	13:25 MPC	12/06/06	SO	Soil	BSL-101-0-1
J48325-5	12/05/06	16:07 MPC	12/06/06	SO	Soil	TES-1-0-1
J48325-6	12/06/06	14:22 MPC	12/06/06	SO	Soil	LHP-102-7-9
J48325-7	12/06/06	14:35 MPC	12/06/06	SO	Soil	ADS-102-7-8

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J48325

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48325-8	12/06/06	11:44 MPC	12/06/06	AQ	Field Blank Soil	FB-120606
J48325-9	12/06/06	15:14 MPC	12/06/06	AQ	Trip Blank Soil	TB-120606
J48325-10	12/06/06	14:48 MPC	12/06/06	SO	Soil	LHP-127-0-1
J48325-10R	12/06/06	14:48 MPC	12/06/06	SO	Soil	LHP-127-0-1
J48325-11	12/06/06	08:25 MPC	12/06/06	SO	Soil	LB-101-0-1
J48325-11R	12/06/06	08:25 MPC	12/06/06	SO	Soil	LB-101-0-1
J48325-12	12/06/06	08:25 MPC	12/06/06	SO	Soil	LB-101-1-3
J48325-12R	12/06/06	08:25 MPC	12/06/06	SO	Soil	LB-101-1-3
J48325-13	12/06/06	08:54 MPC	12/06/06	SO	Soil	LB-102-0-1
J48325-13R	12/06/06	08:54 MPC	12/06/06	SO	Soil	LB-102-0-1
J48325-14	12/06/06	08:54 MPC	12/06/06	SO	Soil	LB-102-1-3
J48325-14R	12/06/06	08:54 MPC	12/06/06	SO	Soil	LB-102-1-3
J48325-15	12/06/06	09:20 MPC	12/06/06	SO	Soil	LB-103-0-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J48325

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J48325-15D	12/06/06	09:20 MPC	12/06/06	SO	Soil	LB-103-0-1
J48325-15R	12/06/06	09:20 MPC	12/06/06	SO	Soil	LB-103-0-1
J48325-15S	12/06/06	09:20 MPC	12/06/06	SO	Soil	LB-103-0-1
J48325-16	12/06/06	09:25 MPC	12/06/06	SO	Soil	LB-103-5-7
J48325-16R	12/06/06	09:25 MPC	12/06/06	SO	Soil	LB-103-5-7
J48325-17	12/06/06	09:53 MPC	12/06/06	SO	Soil	LHP-108-0-1
J48325-17R	12/06/06	09:53 MPC	12/06/06	SO	Soil	LHP-108-0-1
J48325-18	12/06/06	09:56 MPC	12/06/06	SO	Soil	LHP-108-3-7
J48325-18R	12/06/06	09:56 MPC	12/06/06	SO	Soil	LHP-108-3-7
J48325-19	12/06/06	10:08 MPC	12/06/06	SO	Soil	LHP-122-0-1
J48325-19R	12/06/06	10:08 MPC	12/06/06	SO	Soil	LHP-122-0-1
J48325-20	12/06/06	10:15 MPC	12/06/06	SO	Soil	LHP-109-0-1
J48325-20R	12/06/06	10:15 MPC	12/06/06	SO	Soil	LHP-109-0-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@394207 10:17 12-Aug-2007

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J49293

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J49293-1	12/14/06	14:00 CED	12/14/06	SO	Soil	MW-11D-12-14
J49293-1R	12/14/06	14:00 CED	12/14/06	SO	Soil	MW-11D-12-14
J49293-2	12/14/06	15:09 CED	12/14/06	AQ	Field Blank Soil	FB-121406
J49293-3	12/14/06	15:09 CED	12/14/06	AQ	Trip Blank Soil	TB-121406

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J49409

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J49409-1	12/14/06	14:15 TC	12/15/06	SO	Soil	MW-110-14-16
J49409-1R	12/14/06	14:15 TC	12/15/06	SO	Soil	MW-110-14-16
J49409-2	12/14/06	14:38 TC	12/15/06	SO	Soil	MW-11D-16-18
J49409-2D	12/14/06	14:38 TC	12/15/06	SO	Soil Dup/MSD	MW-11D-16-18
J49409-2R	12/14/06	14:38 TC	12/15/06	SO	Soil	MW-11D-16-18
J49409-2S	12/14/06	14:38 TC	12/15/06	SO	Soil Matrix Spike	MW-11D-16-18
J49409-3	12/15/06	13:50 TC	12/15/06	AQ	Trip Blank Soil	TB-121506
J49409-4	12/15/06	13:50 TC	12/15/06	AQ	Field Blank Soil	FB-121506

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J49451

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
J49451-1	12/15/06	11:15	SS	12/15/06	AQ	Water	TPS-1

Sample Summary

Brown & Caldwell

Job No: J49611

LCP Superfund Site, Linden, NJ
Project No: Phase II RI

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J49611-1	12/18/06	10:15 THC	12/18/06	SO	Soil	MW-25D-33-35
J49611-1R	12/18/06	10:15 THC	12/18/06	SO	Soil	MW-25D-33-35
J49611-2	12/18/06	13:45 THC	12/18/06	AQ	Field Blank Soil	FB-121806
J49611-3	12/18/06	13:45 THC	12/18/06	AQ	Trip Blank Soil	TB-121806

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@394207 11:32 12-Aug-2007

Sample Summary

Brown & Caldwell

Job No: J51040

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51040-1	01/09/07	14:00 PKS	01/09/07	AQ	Ground Water	MW17D
J51040-1F	01/09/07	14:00 PKS	01/09/07	AQ	Groundwater Filtered	MW17D
J51040-2	01/09/07	00:00 PKS	01/09/07	AQ	Field Blank Water	FB 1/9/07

Sample Summary

Brown & Caldwell

Job No: J51153

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51153-1	01/10/07	11:45 CJL	01/10/07	AQ	Ground Water	MW17S
J51153-1F	01/10/07	11:45 CJL	01/10/07	AQ	Groundwater Filtered	MW17S
J51153-2	01/10/07	14:30 CJL	01/10/07	AQ	Field Blank Water	FB1/10/07

Sample Summary

Brown & Caldwell

Job No: J51393

LCP Superfund Site, Linden, NJ
Project No: 131369-105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51393-1	01/12/07	12:25 PKS	01/12/07	AQ	Ground Water	MW18D
J51393-1F	01/12/07	12:25 PKS	01/12/07	AQ	Groundwater Filtered	MW18D
J51393-2	01/12/07	17:50 PKS	01/12/07	AQ	Field Blank Water	FB

Accutest LabLink@395528 13:19 18-Aug-2007

Sample Summary

Brown & Caldwell

Job No: J51494

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51494-1	01/15/07	11:30 PKS	01/15/07	AQ	Ground Water	MW16D
J51494-1F	01/15/07	11:30 PKS	01/15/07	AQ	Groundwater Filtered	MW16D
J51494-2	01/15/07	16:15 PKS	01/15/07	AQ	Field Blank Water	FB 1/15/07

Accutest LabLink@395528 13:23 18-Aug-2007

Sample Summary

Brown & Caldwell

Job No: J51580

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51580-1	01/16/07	10:30 PKS	01/16/07	AQ	Ground Water	MW20D
J51580-1F	01/16/07	10:30 PKS	01/16/07	AQ	Groundwater Filtered	MW20D
J51580-2	01/16/07	14:30 PKS	01/16/07	AQ	Ground Water	MW20S
J51580-2F	01/16/07	14:30 PKS	01/16/07	AQ	Groundwater Filtered	MW20S
J51580-3	01/16/07	16:00 PKS	01/16/07	AQ	Field Blank Water	FB 1/16/07

Accutest LabLink@395528 13:38 18-Aug-2007

Sample Summary

Brown & Caldwell

Job No: J51673

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51673-1	01/17/07	10:35 PKS	01/17/07	AQ	Ground Water	MW14D
J51673-1F	01/17/07	10:35 PKS	01/17/07	AQ	Groundwater Filtered	MW14D-FILTERED
J51673-2	01/17/07	12:40 PKS	01/17/07	AQ	Field Blank Water	FB1/17/07

Sample Summary

Brown & Caldwell

Job No: J51889

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J51889-1	01/18/07	11:40 PKS	01/18/07	AQ	Ground Water	MW14S
J51889-1F	01/18/07	11:40 PKS	01/18/07	AQ	Groundwater Filtered	MW14S-FILTERED
J51889-2	01/18/07	15:55 PKS	01/18/07	AQ	Field Blank Water	FB 1/18/07
J51889-3	01/18/07	14:55 PKS	01/18/07	AQ	Ground Water	MW16S
J51889-3F	01/18/07	14:55 PKS	01/18/07	AQ	Groundwater Filtered	MW16S-FILTERED

Sample Summary

Brown & Caldwell

Job No: J52021

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52021-1	01/19/07	12:05 TC	01/19/07	AQ	Ground Water	MW-21D
J52021-2	01/19/07	15:35 TC	01/19/07	AQ	Ground Water	MW-21S
J52021-3	01/19/07	13:50 TC	01/19/07	AQ	Field Blank Water	FB011907
J52021-5F	01/19/07	13:15 TC	01/19/07	AQ	Groundwater Filtered	MW-21D-F
J52021-6F	01/19/07	16:02 TC	01/19/07	AQ	Groundwater Filtered	MW-21S-F

Sample Summary

Brown & Caldwell

Job No: J52027

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52027-1	01/19/07	10:49 CL	01/19/07	SO	Soil	WCSOIL011907B
J52027-2	01/19/07	10:20 CL	01/19/07	SO	Soil	WCSOIL011907A

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

Job No: J52130

LCP Superfund Site, Linden, NJ
Project No: Proj# 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52130-1	01/22/07	11:10 PKS	01/22/07	AQ	Ground Water	MW6S
J52130-1F	01/22/07	11:10 PKS	01/22/07	AQ	Groundwater Filtered	MW6S-FILTERED
J52130-2	01/22/07	12:35 PKS	01/22/07	AQ	Field Blank Water	FB 1/22/07

Sample Summary

Brown & Caldwell

Job No: J52219

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52219-1	01/23/07	12:20 PKS	01/23/07	AQ	Ground Water	MW25D
J52219-1F	01/23/07	12:20 PKS	01/23/07	AQ	Groundwater Filtered	MW25D-FILTERED
J52219-2	01/23/07	15:00 PKS	01/23/07	AQ	Field Blank Water	FB1/23/07
J52219-2F	01/23/07	15:00 PKS	01/23/07	AQ	Field Blank Filtered	FB1/23/07-FILTERED

Sample Summary

Brown & Caldwell

Job No: J52588

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52588-1	01/26/07	14:42 THC	01/26/07	AQ	Ground Water	MW-23S
J52588-2	01/26/07	16:18 THC	01/26/07	AQ	Groundwater Filtered	MW-23S-F

Sample Summary

Brown & Caldwell

Job No: J52669

LCP Superfund Site, Linden, NJ
Project No: Proj#:131369.105 PO#:131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52669-1	01/29/07	12:15 MDW	01/29/07	AQ	Ground Water	MW-23D
J52669-1D	01/29/07	12:15 MDW	01/29/07	AQ	Water Dup/MSD	MW-23D
J52669-1F	01/29/07	12:15 MDW	01/29/07	AQ	Groundwater Filtered	MW-23D
J52669-1FD	01/29/07	12:15 MDW	01/29/07	AQ	Water Dup/MSD	MW-23D
J52669-1FS	01/29/07	12:15 MDW	01/29/07	AQ	Water Matrix Spike	MW-23D
J52669-1S	01/29/07	12:15 MDW	01/29/07	AQ	Water Matrix Spike	MW-23D
J52669-2	01/29/07	16:55 MDW	01/29/07	AQ	Field Blank Water	FB012907
J52669-2F	01/29/07	16:55 MDW	01/29/07	AQ	Field Blank Filtered	FB012907

Sample Summary

Brown & Caldwell

Job No: J52751

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52751-1	01/30/07	10:05 MDW	01/30/07	AQ	Ground Water	MW-11S
J52751-1F	01/30/07	10:05 MDW	01/30/07	AQ	Groundwater Filtered	MW-11S
J52751-2	01/30/07	14:15 MDW	01/30/07	AQ	Ground Water	MW-11D
J52751-2F	01/30/07	14:15 MDW	01/30/07	AQ	Groundwater Filtered	MW-11D
J52751-3	01/30/07	14:15 MDW	01/30/07	AQ	Trip Blank Water	TB013007

Sample Summary

Brown & Caldwell

Job No: J52878

LCP Superfund Site, Linden, NJ
Project No: PO#:131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52878-1	01/31/07	09:00 MW	01/31/07	AQ	Field Blank Water	FB013107
J52878-1F	01/31/07	09:00 MW	01/31/07	AQ	Field Blank Filtered	FB013107
J52878-2	01/31/07	13:20 MW	01/31/07	AQ	Ground Water	MW-6D
J52878-2F	01/31/07	13:20 MW	01/31/07	AQ	Groundwater Filtered	MW-6D
J52878-3	01/31/07	13:20 MW	01/31/07	AQ	Trip Blank Water	TB013107

Sample Summary

Brown & Caldwell

Job No: J52971

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J52971-1	02/01/07	13:30 MDW	02/01/07	AQ	Trip Blank Water	TB020107
J52971-2	02/01/07	08:45 MDW	02/01/07	AQ	Field Blank Water	FB020107
J52971-3	02/01/07	13:30 MDW	02/01/07	AQ	Ground Water	MW-7S
J52971-3F	02/01/07	13:30 MDW	02/01/07	AQ	Groundwater Filtered	MW-7S
J52971-4	02/01/07	00:00 MDW	02/01/07	AQ	Ground Water	DUP020107
J52971-4F	02/01/07	00:00 MDW	02/01/07	AQ	Groundwater Filtered	DUP020107

Sample Summary

Brown & Caldwell

Job No: J53104

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53104-1	02/02/07	14:10 MDW	02/02/07	AQ	Trip Blank Water	TB020207
J53104-2	02/02/07	08:05 MDW	02/02/07	AQ	Field Blank Water	FB020207
J53104-3	02/02/07	11:30 MDW	02/02/07	AQ	Ground Water	MW-8S
J53104-3F	02/02/07	11:30 MDW	02/02/07	AQ	Groundwater Filtered	MW-8S
J53104-4	02/02/07	14:10 MDW	02/02/07	AQ	Ground Water	MW-10S
J53104-4F	02/02/07	14:10 MDW	02/02/07	AQ	Groundwater Filtered	MW-10S

Accutest Laboratories

Sample Summary

Brown & Caldwell

Job No: J53258

LCP Superfund Site, Linden, NJ
Project No: PO#:131369-105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53258-1	02/06/07	09:00 MMR	02/06/07	AQ	Field Blank Water	FB020607
J53258-2	02/06/07	12:00 MMR	02/06/07	AQ	Ground Water	MW-12S
J53258-2F	02/06/07	12:00 MMR	02/06/07	AQ	Groundwater Filtered	MW-12SF

Sample Summary

Brown & Caldwell

Job No: J53388

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53388-1	02/07/07	07:30 MMR	02/07/07	AQ	Field Blank Water	FB020707
J53388-2	02/07/07	11:00 MMR	02/07/07	AQ	Ground Water	MW-9S
J53388-2F	02/07/07	11:00 MMR	02/07/07	AQ	Groundwater Filtered	MW-9S
J53388-3	02/07/07	14:15 MMR	02/07/07	AQ	Ground Water	MW-19S
J53388-3F	02/07/07	14:15 MMR	02/07/07	AQ	Groundwater Filtered	MW-19S
J53388-4	02/07/07	00:00 MMR	02/07/07	AQ	Ground Water	DUP020707
J53388-4F	02/07/07	00:00 MMR	02/07/07	AQ	Groundwater Filtered	DUP020707
J53388-5	02/07/07	14:15 MMR	02/07/07	AQ	Trip Blank Water	TB020707

Sample Summary

Brown & Caldwell

Job No: J53483

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53483-1	02/08/07	07:30 MMR	02/08/07	AQ	Field Blank Water	FB020807
J53483-2	02/08/07	10:30 MMR	02/08/07	AQ	Ground Water	MW-24S
J53483-2F	02/08/07	10:30 MMR	02/08/07	AQ	Groundwater Filtered	MW-24S
J53483-3	02/08/07	14:00 MMR	02/08/07	AQ	Trip Blank Water	TB020807
J53483-4	02/08/07	14:00 MMR	02/08/07	AQ	Ground Water	MW-15S

Accutest LabLink@398583 16:13 05-Sep-2007

Sample Summary

Brown & Caldwell

Job No: J53484

LCP Superfund Site, Linden, NJ
Project No: 131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53484-1	02/08/07	09:45 CJM	02/08/07	SO	Soil	H-B-105C
J53484-2	02/08/07	12:10 CJM	02/08/07	SO	Soil	H-B-105D
J53484-3	02/08/07	15:30 CJM	02/08/07	AQ	Field Blank Soil	FB020807-A
J53484-4	02/08/07	16:15 CJM	02/08/07	AQ	Trip Blank Soil	TB020807-A
J53484-5	02/08/07	16:15 CJM	02/08/07	SO	Soil	H-B-105E

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Accutest LabLink@398583 16:23 05-Sep-2007

Sample Summary

Brown & Caldwell

Job No: J53630

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53630-1	02/09/07	08:00 MMR	02/09/07	AQ	Field Blank Water	FB020907
J53630-2	02/09/07	10:25 MMR	02/09/07	AQ	Ground Water	MW-22S
J53630-2D	02/09/07	10:25 MMR	02/09/07	AQ	Water Dup/MSD	MW-22S-MSD
J53630-2F	02/09/07	10:25 MMR	02/09/07	AQ	Groundwater Filtered	MW-22S
J53630-2FD	02/09/07	10:25 MMR	02/09/07	AQ	Water Dup/MSD	MW-22S-MSD
J53630-2FS	02/09/07	10:25 MMR	02/09/07	AQ	Water Matrix Spike	MW-22S-MS
J53630-2S	02/09/07	10:25 MMR	02/09/07	AQ	Water Matrix Spike	MW-22S-MS
J53630-3	02/09/07	12:20 MMR	02/09/07	AQ	Ground Water	MW-15S
J53630-3F	02/09/07	12:20 MMR	02/09/07	AQ	Groundwater Filtered	MW-15S

Sample Summary

Brown & Caldwell

Job No: J53740

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53740-1	02/12/07	08:00 CM	02/12/07	AQ	Field Blank Water	FB021207
J53740-2	02/12/07	11:40 CM	02/12/07	AQ	Ground Water	MW-13S
J53740-2F	02/12/07	11:40 CM	02/12/07	AQ	Groundwater Filtered	MW-13S
J53740-3	02/12/07	14:40 CM	02/12/07	AQ	Ground Water	MW-18S
J53740-3F	02/12/07	14:40 CM	02/12/07	AQ	Groundwater Filtered	MW-18S
J53740-4	02/12/07	14:40 CM	02/12/07	AQ	Trip Blank Water	TB021207

Sample Summary

Brown & Caldwell

Job No: J53817

LCP Superfund Site, Linden, NJ
Project No: PO#:131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J53817-1	02/13/07	11:21 CM	02/13/07	AQ	Ground Water	MW-6D
J53817-2	02/13/07	11:53 CM	02/13/07	AQ	Ground Water	MW-21D
J53817-3	02/13/07	12:05 CM	02/13/07	AQ	Ground Water	MW-11D
J53817-4	02/13/07	12:14 CM	02/13/07	AQ	Ground Water	MW-14D
J53817-5	02/13/07	12:17 CM	02/13/07	AQ	Ground Water	MW-20D
J53817-6	02/13/07	12:22 CM	02/13/07	AQ	Ground Water	MW-17D
J53817-7	02/13/07	12:26 CM	02/13/07	AQ	Ground Water	MW-18D
J53817-8	02/13/07	12:31 CM	02/13/07	AQ	Ground Water	MW-16D
J53817-9	02/13/07	07:50 CM	02/13/07	AQ	Ground Water	MW-26D
J53817-10	02/13/07	14:30 CM	02/13/07	AQ	Ground Water	MW-25D
J53817-11	02/12/07	15:40 CM	02/13/07	AQ	Ground Water	MW-26S

Sample Summary

Brown & Caldwell

Job No: J54238

LCP Superfund Site, Linden, NJ
Project No: 131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54238-1	02/20/07	14:15 CJM	02/20/07	SO	Soil	H-B-103A
J54238-2	02/20/07	16:30 CJM	02/20/07	AQ	Field Blank Soil	FB022007
J54238-3	02/20/07	16:30 CJM	02/20/07	AQ	Trip Blank Soil	TB02207

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

Job No: J54435

LCP Superfund Site, Linden, NJ
Project No: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54435-1	02/22/07	14:25 THC	02/22/07	AQ	Surface Water	SW-VB-2-22-07-1400
J54435-1F	02/22/07	14:27 THC	02/22/07	AQ	Surface H2O Filtered	SW-VB-2-22-07-1400-F
J54435-2	02/22/07	16:00 THC	02/22/07	AQ	Surface Water	SW-VB-2-22-07-1600
J54435-2F	02/22/07	16:05 THC	02/22/07	AQ	Surface H2O Filtered	SW-VB-2-22-07-1600-F

Accutest LabLink@390551 17:31 23-Jul-2007

Sample Summary

Brown & Caldwell

Job No: J54580

LCP Superfund Site, Linden, NJ
Project No: PO#: 131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54580-1	02/23/07	08:45 CJM	02/23/07	SO	Soil	H-B-104A
J54580-2	02/23/07	12:05 CJM	02/23/07	SO	Soil	H-B-104B
J54580-3	02/23/07	16:00 CJM	02/23/07	SO	Soil	H-B-104C
J54580-4	02/23/07	13:00 CJM	02/23/07	AQ	Field Blank Soil	FB022307
J54580-5	02/23/07	16:00 CJM	02/23/07	AQ	Trip Blank Soil	TB022307

Sample Summary

Brown & Caldwell

LCP Superfund Site, Linden, NJ

Job No: J54581

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54581-1	02/23/07	07:02 TCH	02/23/07	AQ	Surface Water	SW-VB-02-23-07-0700
J54581-2	02/23/07	09:00 TCH	02/23/07	AQ	Surface Water	SW-VB-02-23-07-0900
J54581-3F	02/23/07	07:10 TCH	02/23/07	AQ	Surface H2O Filtered	SW-VB-02-23-07-0700-F
J54581-4F	02/23/07	09:05 TCH	02/23/07	AQ	Surface H2O Filtered	SW-VB-02-23-07-0900-F
J54581-5F	02/23/07	11:03 TCH	02/23/07	AQ	Surface H2O Filtered	SW-VB-02-23-07-1100-F
J54581-6	02/23/07	11:08 TCH	02/23/07	AQ	Surface Water	SW-VB-02-23-07-1100
J54581-7	02/23/07	13:00 TCH	02/23/07	AQ	Surface Water	SW-VB-02-23-07-1300
J54581-8F	02/23/07	13:08 TCH	02/23/07	AQ	Surface H2O Filtered	SW-VB-02-23-07-1300-F
J54581-9	02/23/07	15:00 TCH	02/23/07	AQ	Surface Water	SW-VB-02-23-07-1500
J54581-10F	02/23/07	15:06 TCH	02/23/07	AQ	Surface H2O Filtered	SW-VB-02-23-07-1500-F
J54581-11F	02/23/07	00:00 TCH	02/23/07	AQ	Surface H2O Filtered	DUP022307
J54581-12	02/23/07	14:50 TCH	02/23/07	AQ	Field Blank Water	FB022307

Accutest LabLink@398583 16:36 05-Sep-2007

Sample Summary

Brown & Caldwell

Job No: J54589

LCP Superfund Site, Linden, NJ
Project No: Proj#: 131369

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54589-1	02/22/07	17:20 THC	02/23/07	AQ	Surface Water	SW-ERRT
J54589-2F	02/22/07	17:23 THC	02/23/07	AQ	Surface H2O Filtered	SW-ERRT-F
J54589-3F	02/22/07	17:37 THC	02/23/07	AQ	Surface H2O Filtered	SW-WRRT-F
J54589-4	02/22/07	17:27 THC	02/23/07	AQ	Surface Water	SW-WRRT
J54589-5	02/23/07	17:00 THC	02/23/07	AQ	Surface Water	SW-VB-2-23-07-1700
J54589-6F	02/23/07	17:08 THC	02/23/07	AQ	Surface H2O Filtered	SW-VB-2-23-07-1700-F
J54589-7	02/23/07	19:00 THC	02/23/07	AQ	Surface Water	SW-VB-2-23-07-1900
J54589-8F	02/23/07	19:06 THC	02/23/07	AQ	Surface H2O Filtered	SW-VB-2-23-07-1900-F
J54589-9	02/22/07	18:00 THC	02/23/07	AQ	Surface Water	SW-VB-2-22-07-1800
J54589-10F	02/22/07	18:05 THC	02/23/07	AQ	Surface H2O Filtered	SW-VB-2-22-07-1800-F

Sample Summary

Brown & Caldwell

Job No: J54782

LCP Superfund Site, Linden, NJ
Project No: PO#:131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J54782-1	02/27/07	12:15 CJM	02/27/07	SO	Soil	H-B-104D
J54782-2	02/27/07	12:55 CJM	02/27/07	AQ	Field Blank Soil	FB022707
J54782-3	02/27/07	16:40 CJM	02/27/07	AQ	Trip Blank Soil	TB022707
J54782-4	02/27/07	16:40 CJM	02/27/07	SO	Soil	H-B-104E

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

Job No: J55249

LCP Superfund Site, Linden, NJ
Project No: 131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J55249-1	03/05/07	14:35 THC	03/05/07	SO	Soil	HB-101A
J55249-1R	03/05/07	14:35 THC	03/05/07	SO	Soil	HB-101A
J55249-2	03/05/07	16:05 THC	03/05/07	AQ	Field Blank Soil	FB030507
J55249-3	03/05/07	16:05 THC	03/05/07	AQ	Trip Blank Soil	TB030507

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

Job No: J55951

LCP Superfund Site, Linden, NJ
Project No: 131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J55951-1	03/13/07	14:40 AG	03/13/07	SO	Soil	HB-102A
J55951-1R	03/13/07	14:40 AG	03/13/07	SO	Soil	HB-102A
J55951-2	03/13/07	15:30 AG	03/13/07	AQ	Field Blank Soil	FB031307

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

Job No: J56074

LCP Superfund Site, Linden, NJ
Project No: PO#131369.103

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J56074-1	03/14/07	12:15 AG	03/14/07	SO	Soil	HB-102B
J56074-1R	03/14/07	12:15 AG	03/14/07	SO	Soil	HB-102B
J56074-2	03/14/07	12:30 AG	03/14/07	AQ	Field Blank Soil	FB031407
J56074-3	03/14/07	17:00 AG	03/14/07	SO	Soil	HB-102C
J56074-3R	03/14/07	17:00 AG	03/14/07	SO	Soil	HB-102C
J56074-3RD	03/14/07	17:00 AG	03/14/07	SO	Soil Dup/MSD	HB-102C
J56074-3RS	03/14/07	17:00 AG	03/14/07	SO	Soil Matrix Spike	HB-102C

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary

Brown & Caldwell

Job No: J57403

LCP Superfund Site, Linden, NJ
Project No: 131369.105

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J57403-1	03/30/07	13:56 BR	03/30/07	AQ	Ground Water	MW-11D
J57403-2	03/30/07	14:05 BR	03/30/07	AQ	Ground Water	MW-14D
J57403-3	03/30/07	14:10 BR	03/30/07	AQ	Ground Water	MW-20D
J57403-4	03/30/07	14:15 BR	03/30/07	AQ	Ground Water	MW-17D
J57403-5	03/30/07	14:21 BR	03/30/07	AQ	Ground Water	MW-18D
J57403-6	03/30/07	14:25 BR	03/30/07	AQ	Ground Water	MW-23D
J57403-7	03/30/07	14:30 BR	03/30/07	AQ	Ground Water	MW-16D
J57403-8	03/30/07	14:36 BR	03/30/07	AQ	Ground Water	MW-21D
J57403-9	03/30/07	14:43 BR	03/30/07	AQ	Ground Water	MW-6D
J57403-10	03/30/07	14:48 BR	03/30/07	AQ	Ground Water	MW-25D

QUALITATIVE
DATA USABILITY REPORT
Soil Vapor Sampling
LCP Superfund Site

SDG No.: J63094 and J63222

Laboratory: Accutest Laboratories, Dayton, New Jersey

Site: LCP Superfund Site, Linden, New Jersey

Date: July 25, 2007

Data Reviewed by: Gregory Cole, Brown and Caldwell

A Qualitative Data Usability Review was performed on all analytical data from SDGs J63094, and J63222. The following table outlines the samples and analytical methods reviewed;

Sample	Analysis	Method
SV-8	Volatile Organic Compounds (VOC)	TO-15
SV-9	Volatile Organic Compounds (VOC)	TO-15
SV-10	Volatile Organic Compounds (VOC)	TO-15
SV-12	Volatile Organic Compounds (VOC)	TO-15
SV-13	Volatile Organic Compounds (VOC)	TO-15
DUP060707	Volatile Organic Compounds (VOC)	TO-15
TB060707	Volatile Organic Compounds (VOC)	TO-15
SV-1	Volatile Organic Compounds (VOC)	TO-15
SV-2	Volatile Organic Compounds (VOC)	TO-15
SV-3	Volatile Organic Compounds (VOC)	TO-15
SV-4	Volatile Organic Compounds (VOC)	TO-15
SV-5	Volatile Organic Compounds (VOC)	TO-15
AA2-060707	Volatile Organic Compounds (VOC)	TO-15
AA1-060707	Volatile Organic Compounds (VOC)	TO-15

This review was performed based on the requirements provided in the project Quality Assurance Project Plan, the USEPA Region II validation SOPs, and on guidance provided in the Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review, 2004.

The review included the parameters listed below.

- Sample Documentation
- Sample Holding Times
- Laboratory and Field Blank Review
- Surrogate Recovery Review
- MS/MSD Recovery and Precision
- Field/Laboratory Duplicate Review
- Laboratory Control Sample (LCS) Review
- Sample Quantitation

DESCRIPTION OF QUALITATIVE REVIEW

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. No results were rejected. Data quality issues with respect to field duplicate precision and results exceeding the calibration range were identified requiring qualification of some data.

Sample Documentation

Provided laboratory reports included all the necessary information to perform the described data review except the following:

- Detection limits were not provided in the hardcopy lab report. The lab report provides the reporting limit only. However, results detected at concentrations between the detection limit and the reporting limit are reported as estimated values The detection limits were provided as part of the electronic deliverable and have been loaded into the project database. Results reported as not detected can be considered to be less than the detection limit

Sample Holding Times

Each sample was prepared and analyzed within the specified holding time for each analysis

Laboratory and Field Blank Review

All compounds were reported as not detected in the laboratory and field blanks

Surrogate Recovery Data

Each of the surrogate recoveries were within the guidance limits.

MS/MSD Review

Matrix spikes were not performed on any Site samples.

Field/Laboratory Duplicate Review

One field duplicates was collected and analyzed for the same parameters as the associated parent samples. DUP060707 is a field duplicate for SV-10. In general, duplicate precision was poor. This is likely due to the inherent difficulties in collecting high volumes of soil vapor. Soil vapor becomes diluted as the sample volume collected increases. Therefore, reported results may be biased low. The field duplicate had much lower concentrations than the parent sample indicating that it was collected after the parent sample. The following analytes have been qualified as estimated due to field duplicate imprecision.

Constituent	Parent amt. (ppbv)	Duplicate amt. (ppbv)	RPD	RPD Limit	Action
Ethylbenzene	13.9	4.7	99	50	J
1,3,5-Trimethylbenzene	4.0	1.3	102	50	J
Toluene	91.8	35.2	89	50	J
Hexane	23.3	12.9	57	50	J

Constituent	Parent amt. (ppbv)	Duplicate amt. (ppbv)	RPD	RPD Limit	Action
Mixed Xylenes	74.1	24.3	101	50	J
Heptane	11.1	5.1	74	50	J
2,2,4-Trimethylpentane	5.5	3.1	56	50	J
1,3-Dichlorobenzene	6.3	1.5	123	50	J
4-Ethyltoluene	3.9	1.2	105	50	J
Ethanol	2360	956	85	50	J
Isopropanol	290	111	90	50	J
Chloroform	6.4	2.5	88	50	J
Benzene	16.6	7.7	80	50	J
Chloromethane	11.8	3.9	101	50	J
Tert-Butyl alcohol	7.0	2.5	95	50	J
Trichlorofluoromethane	2.1	1.2	54	50	J
2-Butanone	7.4	2.7	85	50	J
O-Xylene	16.6	5.3	103	50	J
1,2,4-Trimethylbenzene	13.9	4.3	105	50	J
M,P-Xylene	57.5	19.1	100	50	J

Laboratory Control Sample (LCS) Review

Each of the criteria is within guidance limits.

Sample Quantitation

Results for Ethanol in two samples (SV-10 and DUP060707) exceeded the calibration limit and are qualified as estimated.

The following table provides the affected samples and associated qualifications:

Sample	Constituent	amt. (ppbv)	Action
SV-10	Ethanol	2360	J
DUP060707	Ethanol	956	J

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

QUALITATIVE
DATA USABILITY REPORT
Arsenic Speciation in Biota Sampling
LCP Superfund Site

SDG No.: 90638, 90639, 90641, 90643, and 90644

Laboratory: West Coast Analytical Service, Inc., Santa Fe Springs, California

Site: LCP Superfund Site, Linden, New Jersey

Date: September 11, 2007

Data Reviewed by: Gregory Cole, Brown and Caldwell

A Qualitative Data Usability Review was performed on all analytical data from SDGs 90638, 90639, 90641, 90643, and 90644. The following table outlines the samples and analytical methods reviewed;

Sample	Analysis	Method
FC-B-2	Arsenic Speciation	SOP 7240
FC-C-1	Arsenic Speciation	SOP 7240
FC-C-2	Arsenic Speciation	SOP 7240
FC-B-1	Arsenic Speciation	SOP 7240
MC-A	Arsenic Speciation	SOP 7240
MC-A-DUP	Arsenic Speciation	SOP 7240
MC-B	Arsenic Speciation	SOP 7240
MC-C	Arsenic Speciation	SOP 7240
FC-X-2	Arsenic Speciation	SOP 7240
FC-X-1	Arsenic Speciation	SOP 7240
FC-W-1	Arsenic Speciation	SOP 7240
FC-W-2-DUP	Arsenic Speciation	SOP 7240
FC-W-2	Arsenic Speciation	SOP 7240
MC-X	Arsenic Speciation	SOP 7240
MC-W	Arsenic Speciation	SOP 7240
FC-Y-1	Arsenic Speciation	SOP 7240
FC-Y-2	Arsenic Speciation	SOP 7240
FC-Z-1	Arsenic Speciation	SOP 7240
FC-Z-2	Arsenic Speciation	SOP 7240
MC-Y	Arsenic Speciation	SOP 7240

MC-Z	Arsenic Speciation	SOP 7240
FC-D-1	Arsenic Speciation	SOP 7240
FC-D-2	Arsenic Speciation	SOP 7240
FC-E-1	Arsenic Speciation	SOP 7240
FC-E-2	Arsenic Speciation	SOP 7240
FC-F-1	Arsenic Speciation	SOP 7240
FC-F-2	Arsenic Speciation	SOP 7240
MC-D	Arsenic Speciation	SOP 7240
MC-E	Arsenic Speciation	SOP 7240
MC-F	Arsenic Speciation	SOP 7240
FC-A-1	Arsenic Speciation	SOP 7240
FC-A-2	Arsenic Speciation	SOP 7240

This review was performed based on the requirements provided in the project Quality Assurance Project Plan, the USEPA Region II validation SOPs, and on guidance provided in the Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review, 2004.

The review included the parameters listed below.

- Sample Documentation
- Sample Holding Times
- Laboratory and Field Blank Review
- MS/MSD Recovery and Precision
- Field/Laboratory Duplicate Review
- Laboratory Control Sample (LCS) Review
- Sample Quantitation

DESCRIPTION OF QUALITATIVE REVIEW

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. No results were rejected. Data quality issues with respect to field duplicate precision were identified requiring qualification of some data.

Sample Documentation

Provided laboratory reports included all the necessary information to perform the described data review.

Sample Holding Times

Each sample was prepared and analyzed within the specified holding time for each analysis

Laboratory and Field Blank Review

All compounds were reported as not detected in the laboratory and field blanks

MS/MSD Review

Matrix spikes and matrix spike duplicates were performed on three Site samples. All recoveries were within limits.

Field/Laboratory Duplicate Review

Two field duplicates were collected and analyzed for the same parameters as the associated parent samples. MC-A-DUP is a field duplicate for MC-A and FC-W-2-DUP is a field duplicate for FC-W-2. In addition, the laboratory performed laboratory replicate analyses on

three samples. In general, duplicate precision was good. However, the RPDs for several duplicate pairs exceeded the limit and have been qualified. The following results have been qualified as estimated due to duplicate imprecision.

Sample	Constituent	Parent amt. (ug/g)	Duplicate amt. (ug/g)	RPD	RPD Limit	Action
MC-A	As+3 as As	0.088	0.037	82	50	J
MC-A	As+5 as As	0.184	0.104	56	50	J
FC-F-2	DMA as As	0.013	0.005	89	50	J

Laboratory Control Sample (LCS) Review

Each of the criteria is within guidance limits.

Sample Quantitation

Each of the criteria is within guidance limits.

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

QUALITATIVE
DATA USABILITY REPORT
Biota Sampling
LCP Superfund Site

SDG No.: K0608003, K0608035, K0608105, K0608357, and K0608432

Laboratory: Columbia Analytical Services, Kelso, Washington

Site: LCP Superfund Site, Linden, New Jersey

Date: September 11, 2007

Data Reviewed by: Gregory Cole, Brown and Caldwell

A Qualitative Data Usability Review was performed on all analytical data from SDGs K0608003, K0608035, K0608105, K0608357, and K0608432. The following table outlines the samples and analytical methods reviewed;

Sample	Analysis	Method
FC-A-1	Methyl Mercury	CAS SOP
	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
FC-A-2	Volatile Organic Compounds (VOC)	TO-15
	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
FB-091806	Methyl Mercury	CAS SOP
	PCB Congeners	E1668A
	Metals	SW6010B/E200.8/SW7470A
FC-B-2	Methyl Mercury	CAS SOP
	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
FC-C-1	Methyl Mercury	CAS SOP
	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
FC-C-2	Methyl Mercury	CAS SOP
	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A

	Methyl Mercury	CAS SOP
FC-B-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-A	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-A-DUP	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-B	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-C	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FB-091906	PCB Congeners	E1668A
	Metals	SW6010B/E200.8/SW7470A
	Methyl Mercury	CAS SOP
FC-D-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-D-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-E-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-E-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-F-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-F-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-D	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A

	Methyl Mercury	CAS SOP
MC-E	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-F	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FB092006	PCB Congeners	E1668A
	Metals	SW6010B/E200.8/SW7470A
	Methyl Mercury	CAS SOP
FC-X-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-X-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-W-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-W-2-DUP	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-W-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-X	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-W	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FB-092606	PCB Congeners	E1668A
	Metals	SW6010B/E200.8/SW7470A
	Methyl Mercury	CAS SOP
FC-Y-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-Y-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A

	Methyl Mercury	CAS SOP
FC-Z-1	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FC-Z-2	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-Y	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
MC-Z	PCB Congeners	E1668A
	Metals	SW6010B/SW6020/SW7471A
	Methyl Mercury	CAS SOP
FB-092706	PCB Congeners	E1668A
	Metals	SW6010B/E200.8/SW7470A

This review was performed based on the requirements provided in the project Quality Assurance Project Plan, the USEPA Region II validation SOPs, and on guidance provided in the Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review, 2004.

The review included the parameters listed below.

- Sample Documentation
- Sample Holding Times
- Laboratory and Field Blank Review
- Labeled Standards Recovery Review
- MS/MSD Recovery and Precision
- Field/Laboratory Duplicate Review
- Laboratory Control Sample (LCS) Review
- Sample Quantitation

DESCRIPTION OF QUALITATIVE REVIEW

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. Three PCB congener results in one sample (FC-E-2) were rejected due to extremely low labeled standard recoveries. Data quality issues with respect to labeled standard recoveries outside of limits, field duplicate precision and results exceeding the calibration range were identified requiring qualification of some data.

Sample Documentation

Provided laboratory reports included all the necessary information to perform the described data review.

Sample Holding Times

Each sample was prepared and analyzed within the specified holding time for each analysis

Laboratory and Field Blank Review

PCB congeners were detected in the laboratory and field blanks. Associated sample results were qualified as not detected with an estimated detection limit (UJ). Low levels of manganese were also detected in method blanks. However, associated sample concentrations were greater than five times the blank concentration and results were not qualified. The following analytes have been qualified due to blank contamination:

Sample ID	Analyte	Sample amt. (ng/Kg)	Blank amt. (ng/Kg)	Action
FC-A-1	3,3'-Dichlorobiphenyl	469.72	105	UJ
	3-Chlorobiphenyl	5.89	1.8	UJ
	4-Chlorobiphenyl	21.51	5.5	UJ
FC-A-2	3,3'-Dichlorobiphenyl	351.2	105	UJ

Sample ID	Analyte	Sample amt. (ng/Kg)	Blank amt. (ng/Kg)	Action
	3-Chlorobiphenyl	4.51	1.8	UJ
	4-Chlorobiphenyl	19.03	5.5	UJ
FC-B-2	2,2'-Dichlorobiphenyl	35.67	9.41	UJ
	3,3'-Dichlorobiphenyl	355.43	100.2	UJ
	2-Chlorobiphenyl	9.85	3.88	UJ
	4-Chlorobiphenyl	10.22	5.43	UJ
FC-C-2	3,3'-Dichlorobiphenyl	373.03	100.2	UJ
	2-Chlorobiphenyl	9.45	3.88	UJ
	4-Chlorobiphenyl	10.12	5.43	UJ
FC-B-1	3,3'-Dichlorobiphenyl	370.72	100.2	UJ
	2-Chlorobiphenyl	12.41	3.88	UJ
	4-Chlorobiphenyl	11.37	5.43	UJ
MC-A	3,3'-Dichlorobiphenyl	156.78	100.2	UJ
	4-Chlorobiphenyl	19.66	5.43	UJ
MC-A-DUP	3,3'-Dichlorobiphenyl	168.4	100.2	UJ
	4-Chlorobiphenyl	16.81	5.43	UJ
MC-B	3,3'-Dichlorobiphenyl	155.35	100.2	UJ
MC-C	3,3'-Dichlorobiphenyl	135.64	100.2	UJ
	2-Chlorobiphenyl	14.72	3.88	UJ
	4-Chlorobiphenyl	5.26	5.43	UJ
MC-D	3,3'-Dichlorobiphenyl	181.04	100.2	UJ
MC-E	3,3'-Dichlorobiphenyl	289.11	100.2	UJ
MC-F	3,3'-Dichlorobiphenyl	134.66	100.2	UJ
FC-X-2	4-Chlorobiphenyl	7.16	1.55	UJ
FC-X-1	2-Chlorobiphenyl	6.02	1.42	UJ
	4-Chlorobiphenyl	5.23	1.55	UJ
FC-W-1	2-Chlorobiphenyl	5.87	1.42	UJ
	4-Chlorobiphenyl	4.22	1.55	UJ
FC-W-2-DUP	2-Chlorobiphenyl	5.89	1.42	UJ
	4-Chlorobiphenyl	5.5	1.55	UJ
	2,2',6-Trichlorobiphenyl	5.62	1.5	UJ

Sample ID	Analyte	Sample amt. (ng/Kg)	Blank amt. (ng/Kg)	Action
MC-X	4-Chlorobiphenyl	7.06	1.55	UJ
MC-W	4-Chlorobiphenyl	7.45	1.55	UJ
FC-Y-1	2-Chlorobiphenyl	5.88	1.42	UJ
	4-Chlorobiphenyl	4.97	1.55	UJ
	2,2',6-Trichlorobiphenyl	5.68	1.5	UJ
FC-Y-2	2-Chlorobiphenyl	5.63	1.42	UJ
	4-Chlorobiphenyl	5.34	1.55	UJ
FC-Z-1	2-Chlorobiphenyl	5.74	1.42	UJ
	4-Chlorobiphenyl	5.11	1.55	UJ
FC-Z-2	2-Chlorobiphenyl	6.64	1.42	UJ
MC-Y	4-Chlorobiphenyl	5.91	1.55	UJ
MC-Z	4-Chlorobiphenyl	5.79	1.55	UJ

Labeled Standards Recovery Data

Labeled Standards were added to the samples for PCB congener analysis. Recovery limits for labeled standards are 15-150 percent recovery. Results associated with recoveries outside limits were qualified as shown below.

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
FC-A-1	Decachlorobiphenyl	199	1241	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	341	440.22	J
	2,3',4,4',5-Pentachlorobiphenyl	156	11834.16	J
	2,3,3',4,4',5-Hexachlorobiphenyl	153	1112.24	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	170	241.64	J
FC-A-2	Decachlorobiphenyl	198	1842.03	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	341	700.21	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	164	127.79	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	165	334.54	J
FC-B-2	Decachlorobiphenyl	194	632.84	J

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	325	385.3	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	159	53.55	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	359	213.99	J
FC-C-1	Decachlorobiphenyl	485	1576.64	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	651	1205.11	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	352	211.38	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	384	1468.33	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	700	784.43	J
FC-C-2	Decachlorobiphenyl	193	463.64	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	316	317.27	J
	2,3',4,4',5-Pentachlorobiphenyl	165	4500	J
	2,3,3',4,4',5-Hexachlorobiphenyl	163	571.96	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	151	379.23	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	157	302.43	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	153	179.78	J
FC-B-1	Decachlorobiphenyl	219	795.02	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	432	274.92	J
	2,3',4,4',5-Pentachlorobiphenyl	151	4817.21	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	205	32.09	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	175	370.31	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	196	158.7	J
MC-A	Decachlorobiphenyl	195	644.28	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	374	514.64	J
	2,3',4,4',5-Pentachlorobiphenyl	152	14418.6	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	181	94.97	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	167	199.2	J
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	446	194.06	J
MC-A-DUP	Decachlorobiphenyl	195	590.11	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	342	460.6	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	153	214.16	J

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
MC-C	Decachlorobiphenyl	161	184.96	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	224	185.3	J
FC-D-1	Decachlorobiphenyl	208	473.7	J
	2-Chlorobiphenyl	38	10.49	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	345	310.15	J
	2,3',4,4',5-Pentachlorobiphenyl	152	5450.77	J
	2,3,3',4,4',5-Hexachlorobiphenyl	160	607.15	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	160	342.69	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	170	169.97	J
FC-D-2	Decachlorobiphenyl	262	850.56	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	309	497.66	J
	2',3,4,4',5-Pentachlorobiphenyl	186	7104.82	J
	2,3,3',4,4',5-Hexachlorobiphenyl	155	897.21	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	175	64.5	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	198	646.03	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	155	512.13	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	193	310.52	J
FC-E-1	Decachlorobiphenyl	222	400.57	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	207	258.32	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	163	25.53	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	170	754.95	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	154	196.39	J
FC-E-2	2,2'-Dichlorobiphenyl	2	<108.76	UR
	Decachlorobiphenyl	214	423	J
	2-Chlorobiphenyl	0	<62.65	UR
	4-Chlorobiphenyl	2	<43.506	UR
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	268	649.45	J
	2,2',6-Trichlorobiphenyl	11	17.59	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	162	61.36	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	152	777.07	J

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	182	329.07	J
FC-F-1	Decachlorobiphenyl	173	255.2	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	156	317.07	J
	2',3,4,4',5-Pentachlorobiphenyl	166	7201.5	J
	2,3,3',4,4',5-Hexachlorobiphenyl	155	735.02	J
FC-F-2	Decachlorobiphenyl	154	1157.25	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	164	1128.11	J
MC-D	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	249	585.38	J
MC-E	Decachlorobiphenyl	731	992.93	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	1034	1022.43	J
	2,3',4,4',5-Pentachlorobiphenyl	177	16912.46	J
	2,3,3',4,4'-Pentachlorobiphenyl	156	6365.3	J
	2,3,3',4,4',5-Hexachlorobiphenyl	180	2026.27	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	468	<106.48	UJ
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	583	1779.14	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	172	1021.28	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	402	691.43	J
	2',3,4,4',5-Pentachlorobiphenyl	197	<106.48	UJ
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	1278	<212.96	UJ
	2,3,3',4,4',5,5',6,-Octachlorobiphenyl	2	413007.1	J
MC-F	Decachlorobiphenyl	174	409.73	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	308	446.3	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	151	<104.86	UJ
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	352	<209.73	UJ
FC-X-2	2,2'-Dichlorobiphenyl	23	30.09	J
	Decachlorobiphenyl	168	379.37	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	236	275.8	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	152	13.94	J
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	289	<238.6	UJ
FC-X-1	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	286	354.91	J

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
	2,3',4,4',5-Pentachlorobiphenyl	152	2675.68	J
	2,3,3',4,4',5-Hexachlorobiphenyl	154	421	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	152	53.26	J
	2,2'3,3',4,4',5,5',6-Nonachlorobiphenyl	163	555.72	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	151	288.98	J
	2',3,4,4',5-Pentachlorobiphenyl	172	<88.463	UJ
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	354	<176.92	UJ
FC-W-1	Decachlorobiphenyl	189	341.92	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	254	209.3	J
	2,3,3',4,4',5-Hexachlorobiphenyl	156	214.41	J
	2',3,4,4',5-Pentachlorobiphenyl	188	<111.3	UJ
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	319	<222.61	UJ
FC-W-2-DUP	Decachlorobiphenyl	166	540.16	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	231	632.41	J
	2',3,4,4',5-Pentachlorobiphenyl	169	<118.99	UJ
	2,2',3,4,5,6,6'-Heptachlorobiphenyl	288	<237.98	UJ
FC-W-2	Decachlorobiphenyl	159	413.24	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	176	391.46	J
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	202	<104.8	UJ
MC-X	Decachlorobiphenyl	337	685.8	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	559	831.8	J
	2,3',4,4',5-Pentachlorobiphenyl	158	10431.63	J
	2,3,3',4,4',5-Hexachlorobiphenyl	158	1372.98	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	262	<99.938	UJ
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	254	913.82	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	154	806.88	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	256	475.05	J
	2',3,4,4',5-Pentachlorobiphenyl	188	<99.938	UJ
	2,3,4,4',5-Pentachlorobiphenyl	160	227.37	J
	2,3,3',4,4',5,5',6-Octachlorobiphenyl	14	<199.87	UJ

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	711	<99.938	UJ
MC-W	Decachlorobiphenyl	6	21130.6	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	305	771.25	J
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	154	924.02	J
	2',3,4,4',5-Pentachlorobiphenyl	172	<116.13	UJ
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	376	<116.13	UJ
FC-Y-1	Decachlorobiphenyl	205	587.29	
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	336	345.29	
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	156	<105.05	UJ
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	158	521.41	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	153	273.53	J
	3,3',4,4',5-Pentachlorobiphenyl	190	<105.05	UJ
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	407	<105.05	UJ
FC-Y-2	Decachlorobiphenyl	210	631.84	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	322	3953.92	J
	2,3',4,4',5-Pentachlorobiphenyl	152	2899.62	J
	2,3,3',4,4',5-Hexachlorobiphenyl	157	392.94	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	156	42.71	J
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	155	619.1	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	155	243.1	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	155	307.04	J
	2',3,4,4',5-Pentachlorobiphenyl	174	<109.23	UJ
	2,3,4,4',5-Pentachlorobiphenyl	152	27.73	J
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	384	<109.23	UJ
FC-Z-1	Decachlorobiphenyl	218	880.83	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	303	593.64	J
	2,3',4,4',5-Pentachlorobiphenyl	151	4425.23	J
	2,3,3',4,4',5-Hexachlorobiphenyl	174	610.94	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	170	27.07	J
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	155	992.19	J

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
	2,3',4,4',5,5'-Hexachlorobiphenyl	169	370.06	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	159	449.46	J
	2',3,4,4',5-Pentachlorobiphenyl	192	211.98	J
	2,3,4,4',5-Pentachlorobiphenyl	160	<112.51	UJ
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	361	<112.51	UJ
FC-Z-2	Decachlorobiphenyl	168	777.54	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	182	460.35	J
	2,3,3',4,4',5-Hexachlorobiphenyl	167	446.2	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	163	274.12	J
	2',3,4,4',5-Pentachlorobiphenyl	175	<103.62	UJ
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	210	<103.62	UJ
MC-Y	Decachlorobiphenyl	221	575.44	J
	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	340	771.2	J
	2,3,3',4,4',5-Hexachlorobiphenyl	166	1270.19	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	176	<109.7	UJ
	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	163	897.94	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	157	731.45	J
	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	166	433.91	J
	2',3,4,4',5-Pentachlorobiphenyl	175	<109.7	UJ
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	392	<109.7	UJ
MC-Z	2,2'3,3',5,5',6,6'-Octachlorobiphenyl	192	983.7	J
	2,3',4,4',5-Pentachlorobiphenyl	164	12650.88	J
	2,3,3',4,4',5-Hexachlorobiphenyl	180	1425.66	J
	2,3',4,4',5,5'-Hexachlorobiphenyl	168	722.54	J
	2,2',3,4',5,6,6'-Heptachlorobiphenyl	228	<112.48	UJ

MS/MSD Review

Matrix spikes and matrix spike duplicates were performed on three Site samples (FC-C-1, MC-B, and MC-X). Many recoveries were outside of acceptance limits. This is likely due to the

matrix interferences inherent in tissue samples. Results associated with recoveries outside limits were qualified as shown below.

Sample ID	Analyte	Spike recovery. (%)	Sample amt. (ng/Kg)	Action
FC-C-1	2,2'-Dichlorobiphenyl	-51	369.05	J
	3,3',4,4'-Tetrachlorobiphenyl	-58	671.61	J
	3,4,4'-Trichlorobiphenyl	22	550.22	J
	2,3,3',4,4',5,5'-Heptachlorobiphenyl	21	211.38	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	-171	784.43	J
	3,3',4,4',5-Pentachlorobiphenyl	26	212.45	J
	2,3,3',4,4',5,5'6-Octachlorobiphenyl	42	263.32	J
	2,3,3',4,4',5,5'6-Octachlorobiphenyl	27	0	UJ
	Zinc	140	145	J
MC-B	Zinc	134	175	J
MC-X	2,2'-Dichlorobiphenyl	153	213.38	J
	Decachlorobiphenyl	161	685.8	J
	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	176	831.8	J
	2,2'3,3',4,5,5',6,6'-Nonachlorobiphenyl	151	475.05	J

Field/Laboratory Duplicate Review

Two field duplicates were collected and analyzed for the same parameters as the associated parent samples. MC-A-DUP is a field duplicate for MC-A. FC-W-2-DUP is a field duplicate for FC-W-2. Laboratory replicates were also performed. In general, duplicate precision was fair. The following analytes have been qualified as estimated due to field duplicate imprecision.

Sample	Constituent	Parent amt. (ppbv)	Duplicate amt. (ppbv)	RPD	RPD Limit	Action
MC-A	2,3,3',4',6-Pentachlorobiphenyl	17155.71	9370.8	59	50	J
	2,3',6-Trichlorobiphenyl	98.89	<42.598	80	50	J
	2,3,3',4'-Tetrachlorobiphenyl	675.41	<42.598	176	50	J

Sample	Constituent	Parent amt. (ppbv)	Duplicate amt. (ppbv)	RPD	RPD Limit	Action
	2,2'3,3',4,4',5,6'-Octachlorobiphenyl	909.43	318.99	96	50	J
	2,2',3,4-Tetrachlorobiphenyl	2661.14	<106.49	184	50	J
	2,2',3,3',6-Pentachlorobiphenyl	826.33	453.23	58	50	J
	2,2',3,3',4-Pentachlorobiphenyl	463.14	<106.49	125	50	J
	2,2',3,4,5,5'-Hexachlorobiphenyl	1804.33	<42.598	190	50	J
	2,2',3,4,5-Pentachlorobiphenyl	4686.81	1575.9	99	50	J
	2,3',4,5',6-Pentachlorobiphenyl	304.11	170.17	56	50	J
	2,2',3,4,5',6-Hexachlorobiphenyl	379.17	70.38	137	50	J
	2,3,3',5-Tetrachlorobiphenyl	355.86	<106.49	107	50	J
	2,3,3',4,5-Pentachlorobiphenyl	2040.45	<106.49	180	50	J
	2,3,3',6-Tetrachlorobiphenyl	563.64	<42.598	171	50	J
	2,3,4,4',5-Pentachlorobiphenyl	237.04	<106.49	76	50	J
	2,3,3',4',5',6-Hexachlorobiphenyl	<97.031	646.3	147	50	J
FC-W-2	3,4-Dichlorobiphenyl	29.74	10.45	95	50	J
	2,3',4,4'-Tetrachlorobiphenyl	1678.25	9927.29	142	50	J
	2,3',4',5-Tetrachlorobiphenyl	2940.09	16090.41	138	50	J
	2,3,4,4'-Tetrachlorobiphenyl	286.53	1652.18	140	50	J
	2,2'3,3',4,4',6,6'-Octachlorobiphenyl	137.3	353.7	88	50	J
	2,2',3,4,4',5-Hexachlorobiphenyl	479.61	<237.98	67	50	J
	2,2',3,3',6,6'-Hexachlorobiphenyl	171.25	571.47	107	50	J
	2,2',3,3',4,5,6'-Heptachlorobiphenyl	2817.73	5096.59	57	50	J
	3,4,4'-Trichlorobiphenyl	214.73	<118.99	57	50	J
	2,2'3,3',4,5',6,6'-Octachlorobiphenyl	238.96	485.17	68	50	J
	2,3',5,5'-Tetrachlorobiphenyl	34.72	133.25	117	50	J
	2,2',3,4',5,5'-Hexachlorobiphenyl	<104.8	962.15	160	50	J
	2,3,4',6-Tetrachlorobiphenyl	1277.83	<47.596	185	50	J
	2,2',3,4-Tetrachlorobiphenyl	659.72	<188.99	110	50	J
	2,2',3,3',5,6,6'-Heptachlorobiphenyl	521.77	1024.95	65	50	J
	2,2',3,3',4,5'-Hexachlorobiphenyl	170.12	74.69	77	50	J
	2,2',3,4,4',5',6-Heptachlorobiphenyl	507.17	1743.37	109	50	J

Sample	Constituent	Parent amt. (ppbv)	Duplicate amt. (ppbv)	RPD	RPD Limit	Action
	2,2',3,3',5,6'-Hexachlorobiphenyl	1141.06	3606.28	103	50	J
	2,2',3,4,4'-Pentachlorobiphenyl	691.38	1300.33	61	50	J
	2,2',3,4,5',6-Hexachlorobiphenyl	141.53	1711.96	169	50	J
	2,2',4,5-Tetrachlorobiphenyl	357.15	851.31	81	50	J
	2,3,3',4,5-Pentachlorobiphenyl	<104.8	727.01	149	50	J
	2,3',4,5-Tetrachlorobiphenyl	63.99	158.38	85	50	J
	2,3,3',4',5',6-Hexachlorobiphenyl	<104.8	1552.22	175	50	J
	2,3,3',5,5',6-Hexachlorobiphenyl	969.7	<237.98	121	50	J

Laboratory Control Sample (LCS) Review

Each of the criteria is within guidance limits.

Sample Quantitation

Results for four PCB congeners in two samples (MC-X and MC-W) exceeded the calibration limit and are qualified as estimated.

The following table provides the affected samples and associated qualifications:

Sample	Constituent	amt. (ng/Kg)	Action
MC-X	2,3',4,4',5-Pentachlorobiphenyl	10431.63	J
	2,2',3,5',6-Pentachlorobiphenyl	8181.67	J
MC-W	Decachlorobiphenyl	21130.6	J
	2,3',4,4',5-Pentachlorobiphenyl	9516.31	J

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

QUALITATIVE
DATA USABILITY REPORT
Gaseous Mercury Sampling
LCP Superfund Site

SDG No.: 0607133

Laboratory: Frontier Geosciences, Inc., Seattle, Washington

Site: LCP Superfund Site, Linden, New Jersey

Date: September 11, 2007

Data Reviewed by: Gregory Cole, Brown and Caldwell

A Qualitative Data Usability Review was performed on all analytical data from SDG 0607133. The following table outlines the samples and analytical methods reviewed;

Sample	Analysis	Method
IO5-1	Total Gaseous Mercury (TGM)	IO-5
IO5-2	Total Gaseous Mercury (TGM)	IO-5
IO5-3	Total Gaseous Mercury (TGM)	IO-5
IO5-5	Total Gaseous Mercury (TGM)	IO-5
IO5-6	Total Gaseous Mercury (TGM)	IO-5

This review was performed based on the requirements provided in the project Quality Assurance Project Plan, the USEPA Region II validation SOPs, and on guidance provided in the Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review, 2004.

The review included the parameters listed below.

- Sample Documentation
- Sample Holding Times
- Laboratory and Field Blank Review
- Field/Laboratory Duplicate Review

- Laboratory Control Sample (LCS) Review
- Sample Quantitation

DESCRIPTION OF QUALITATIVE REVIEW

Summary Evaluation of Data and Potential Usability Issues

No results were rejected. Data quality issues with respect to exceeding holding times and high mercury breakthrough were identified requiring qualification of all results. The data user should determine if the data is acceptable for the intended purposes.

Sample Documentation

Provided laboratory reports included all the necessary information to perform the described data review.

Sample Holding Times

All samples were prepared past the recommended seven day holding time. Results have been qualified as estimated (J/UJ).

Laboratory and Field Blank Review

Mercury was reported as not detected in the laboratory and field blanks

Field/Laboratory Duplicate Review

No field duplicates were submitted for analysis. Laboratory replicates are not applicable to the method.

Laboratory Control Sample (LCS) Review

Each of the criteria is within guidance limits.

Sample Quantitation

Sample breakthrough in the second trap was observed for sample IO5-3. The mercury result was qualified as estimated (J) with a possible low bias.

The following table provides the affected samples and associated qualifications:

Sample	Constituent	amt. (ppbv)	Action
IO5-3	Mercury	1.04	J

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

QUALITATIVE
DATA USABILITY REPORT
Soil and TCLP Mercury Sampling
LCP Superfund Site

SDG No.: J90925

Laboratory: Accutest Laboratories., Dayton, New Jersey

Site: LCP Superfund Site, Linden, New Jersey

Date: August 14, 2008

Data Reviewed by: Gregory Cole, Brown and Caldwell

A Qualitative Data Usability Review was performed on all analytical data from SDG J90925. The following table outlines the samples and analytical methods reviewed;

Sample	Analysis	Method
SS-08-09-1.0	Total Mercury in Soil	SW7471A
SS-08-09-1.0	TCLP Mercury	SW1311/SW7470A
SS-08-09-1.0	Percent Solids	EPA 160.3 M
SS-08-10-1.0	Total Mercury in Soil	SW7471A
SS-08-10-1.0	TCLP Mercury	SW1311/SW7470A
SS-08-10-1.0	Percent Solids	EPA 160.3 M
SS-08-11-0.5	Total Mercury in Soil	SW7471A
SS-08-11-0.5	TCLP Mercury	SW1311/SW7470A
SS-08-11-0.5	Percent Solids	EPA 160.3 M
SS-08-12-0.5	Total Mercury in Soil	SW7471A
SS-08-12-0.5	TCLP Mercury	SW1311/SW7470A
SS-08-12-0.5	Percent Solids	EPA 160.3 M

This review was performed based on the requirements provided in the project Quality Assurance Project Plan, the USEPA Region II validation SOPs, and on guidance provided in the Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review, 2004.

The review included the parameters listed below.

- Sample Documentation
- Sample Holding Times
- Laboratory and Field Blank Review
- Laboratory Control Sample (LCS) Review
- Sample Quantitation

DESCRIPTION OF QUALITATIVE REVIEW

Summary Evaluation of Data and Potential Usability Issues

Overall, the data is acceptable for the intended purposes. No results were rejected or qualified as estimated.

Sample Documentation

Provided laboratory reports included all the necessary information to perform the described data review.

Sample Holding Times

Each sample was prepared and analyzed within the specified holding time for each analysis

Laboratory Blank Review

All compounds were reported as not detected in the laboratory blanks

Laboratory Control Sample (LCS) Review

Each of the criteria is within guidance limits.

Sample Quantitation

Each of the criteria is within guidance limits.

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

QUALITATIVE
DATA USABILITY REPORT
Sediment and Surface Water Sampling
LCP Superfund Site

SDG No.: JA81851, JA82069 and JA82154

Laboratory: Accutest Laboratories, Dayton, New Jersey

Site: LCP Superfund Site, Linden, New Jersey

Date: November 7, 2011

Data Reviewed by: Gregory Cole, Brown and Caldwell

A Qualitative Data Usability Review was performed on all analytical data from SDGs JA81851, JA82069 and JA82154. The following table outlines the samples and analytical methods reviewed;

BC Sample ID	Laboratory Sample IDs	Analyses Performed[1]
SW-SD-C	JA81851-1	VOA TCL List, ABN TCL List without PAH, PAH ListPesticide TCL List, PCB List, Total Metals, Cyanide, and Hardness
SW-SD-C	JA81851-1F	Dissolved Metals
DUP072511	JA81851-2	VOA TCL List, ABN TCL List without PAH, PAH List, Pesticide TCL List, PCB List, Total Metals, Cyanide, and Hardness
DUP072511	JA81851-2F	Dissolved Metals
SW-ND-C	JA81851-3	VOA TCL List, ABN TCL List without PAH, PAH List, Pesticide TCL List, PCB List, Total Metals, Cyanide, and Hardness
SW-ND-C	JA81851-3F	Dissolved Metals
SW-SD-A	JA81851-4	VOA TCL List, ABN TCL List without PAH, PAH List, Pesticide TCL List, PCB List, Total Metals, Cyanide, and Hardness
SW-SD-A	JA81851-4F	Dissolved Metals
SW-ND-A	JA81851-5	VOA TCL List, ABN TCL List without PAH, PAH List, Pesticide TCL List, PCB List, Total Metals, Cyanide, and Hardness

BC Sample ID	Laboratory Sample IDs	Analyses Performed[1]
SW-ND-A	JA81851-5F	Dissolved Metals
FB072511	JA81851-6	VOA TCL List, ABN TCL List without PAH, PAH List, Pesticide TCL List, PCB List, Total Metals, Cyanide, and Hardness
FB072511	JA81851-6F	Dissolved Metals
TB072511	JA81851-7	VOA TCL List
SED-SD-C2-0-0.5	JA82069-1	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
DUP072611	JA82069-2	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
SED-SD-C1-0-0.5	JA82069-3	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
SED-SD-B1-0-0.5	JA82069-4	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
SED-SD-B2-0-0.5	JA82069-5	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
SED-SD-B1-0.5-1.5	JA82069-6	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
SED-ND-C2-0-0.5	JA82069-7	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
SED-ND-C1-0-0.5	JA82069-8	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
SED-ND-B2-0-0.5	JA82069-9	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
SED-ND-B1-0-0.5	JA82069-10	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
SED-ND-B1-0.5-2	JA82069-11	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
SED-ND-A1-0-0.5	JA82069-12	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
SED-SD-A1-0-0.5	JA82069-13	VOA TCL List, ABN TCL List, Pesticide TCL

BC Sample ID	Laboratory Sample IDs	Analyses Performed[1]
		List, PCB List, Metals, Particle Size, Cyanide, Percent Solids, and Total Organic Carbon
Field Blank 072611	JA82069-14	VOA TCL List, ABN TCL List, Pesticide TCL List, PCB List, Metals, Cyanide, and Total Organic Carbon
Trip Blank	JA82069-15	VOA TCL List
SW-SD-C	JA82154-1	Total Low Level Mercury
SW-SD-C	JA82154-1F	Dissolved Low Level Mercury
DUP072511	JA82154-2	Total Low Level Mercury
DUP072511	JA82154-2F	Dissolved Low Level Mercury
SW-ND-C	JA82154-3	Total Low Level Mercury
SW-ND-C	JA82154-3F	Dissolved Low Level Mercury
SW-SD-A	JA82154-4	Total Low Level Mercury
SW-SD-A	JA82154-4F	Dissolved Low Level Mercury
SW-ND-A	JA82154-5	Total Low Level Mercury
SW-ND-A	JA82154-5F	Dissolved Low Level Mercury
FB072511	JA82154-6	Total Low Level Mercury
FB072511	JA82154-6F	Dissolved Low Level Mercury

This review was performed based on the requirements provided in the project Quality Assurance Project Plan, the USEPA Region II validation SOPs, and on guidance provided in the Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review, 2004.

The review included the parameters listed below.

- Sample Documentation
- Sample Holding Times
- Laboratory and Field Blank Review
- Surrogate Recovery Review
- MS/MSD Recovery and Precision
- Field/Laboratory Duplicate Review
- Laboratory Control Sample (LCS) Review

- Sample Quantitation

The items listed above were technically and contractually in compliance with the method and QAPP requirements, with the exceptions discussed in the following text.

Summary Evaluation of Data and Potential Usability Issues

Overall, the non-rejected data is acceptable for the intended purposes. The compound 3,3'-dichlorobenzidine was rejected in sample SW-SD-C due to extremely low matrix spike recoveries. This result is considered unusable for any purpose. Many of the sediment samples had moisture content above 50 percent. This increases the probability of sample non-homogeneity. In addition, aqueous matrix samples are processed differently and require sample preservation. Due to the analytical processing difficulties with high moisture soil samples, all results for samples having moisture content above 50 percent have been qualified as estimated. Data quality issues with respect to field duplicate precision, blank contamination and spike recoveries were identified requiring qualification of some data.

TCL Volatiles by Method SW846 8260B

The MS/MSD RPD for cyclohexane, dichlorodifluoromethane, Freon 113, methylcyclohexane, and trichlorofluoromethane were above control limits for sample SW-SD-C. These compounds were not detected in the parent sample and data qualification was not warranted.

The recovery for surrogate 4-Bromofluorobenzene was above control limits due to obvious matrix interference. No data qualification was warranted.

TCL Semivolatiles by SW846 Methods 8270D and 8270C (SIM)

Samples SW-SD-C and the associated water Field blank each had a slightly high surrogate recovery. As the other 5 surrogates were in control, no data qualification was warranted.

The LCS associated with samples SW-ND-C, SW-SD-A and SW-ND-A had recoveries of 2,3,4,6-tetrachlorophenol and 2,4,6-trichlorophenol that were below control limits. These compounds have been qualified as estimated in the associated samples.

The matrix spike of sample SW-SD-C had low recoveries of 3-nitroaniline, 4-nitroaniline, and an extremely low recovery for 3,3'-dichlorobenzidine. 3-Nitroaniline and 4-nitroaniline have

been qualified as estimated and 3,3'-dichlorobenzidine has been rejected (R) in the parent sample.

The laboratory blank had a detectable concentration of bis(2-ethylhexyl)phthalate. Samples with detected concentrations less than 10 times the blank concentration have been qualified as not detected with an estimated detection limit (UJ).

The field duplicate precision for acenapthylene between sample SW-SD-C and DUP072511 exceeded the control limit of 50 % RPD. This compound has been qualified as estimated (J/UJ) in samples SW-SD-C and DUP072511.

The field duplicate precision for acetophenone between sample SW-SD-C and DUP072511 exceeded the control limit of 50 % RPD. This compound has been qualified as estimated (J/UJ) in samples SW-SD-C and DUP072511.

Pesticides by SW846 Method 8081B

Samples SED-SD-C2-0-0.5, SED-SD-B1-0.5-1.5, SED-ND-C2-0-0.5, and SED-ND-C1-0-0.5 had a greater than 40 percent RPD between the two GC columns for 4,4'-DDE. The 4,4'-DDE results have been qualified as estimated (J). Sample SED-SD-B1-0.5-1.5 also had a greater than 40 percent RPD between the two GC columns for 4,4'-DDT and methoxychlor. These results have been qualified as estimated (J).

Sample SED-ND-C2-0-0.5 had a high surrogate recovery. Detected concentrations of 4,4'-DDD and 4,4'-DDE have been qualified as estimated (J).

Sample SED-ND-A1-0-0.5 was initially extracted within holding times. However, due to poor surrogate recovery, the sample was reextracted outside of the holding time and reanalyzed. All results for this sample are qualified as estimated (J/UJ).

The field duplicate precision for 4,4'-DDT between sample SED-SD-C2-0-0.5 and DUP072611 exceeded the control limit of 50 % RPD. This compound has been qualified as estimated (J) in samples SED-SD-C2-0-0.5 and DUP072611.

Metals by SW846 Methods 6010C, 7470A, 7471A, and EPA 1631

Matrix spike recoveries for SW-SD-C were outside of control limits for sodium, magnesium, potassium, and calcium due to high amount of these compounds in the parent sample. No qualification was warranted.

Several samples required dilutions due to matrix interferences. The sample detection limits are elevated due to this interference.

Matrix spike recoveries for antimony, copper, iron, magnesium, sodium, and zinc were all below the control limits for sample SED-SD-C2-0-0.5. These results have been qualified as estimated (J/UJ) in the parent sample.

The matrix spike for mercury was above the control limits for sample SED-SD-C2-0-0.5.The mercury result has been qualified as estimated in the parent sample.

The matrix spike recoveries for total and dissolved mercuryfor sample SW-SD-C were below control limits. Total and dissolved mercury for sample SW-SD-C have been qualified as estimated (J).

The field duplicate precision for silver exceeded control limits of 50% RPD for sample SED-SD-C2-0-0.5 and DUP072611. The silver results in these samples have been qualified as estimated.

Cyanide by USEPA Method 335.4/LACHAT

The matrix spike recovery for cyanide in sample SW-SD-C was below control limits. The cyanide result in the parent sample has been qualified as estimated (J).

The cyanide analysis for Field Blank 072611 was performed outside of holding times. The cyanide result for sample Field Blank 072611 hasd been qualified as estimated (UJ)

Particle Size by SM D422

The 0.030 mm results for samples SED-ND-C2-0-0.5, SED-ND-A1-0-0.5, SED-ND-B2-0-0.5and SED-SD-A1-0-0.5 were extrapolated from higher and lower data points. These results have been qualified as estimated (J).

Total Organic Carbon by Lloyd Kahn

High variability between mutiple injections indicates possible sample non-homogeneity for samples SED-ND-B1-0.5-2, SED-SD-B2-0-0.5, SED-ND-C2-0-0.5, and SED-ND-C1-0-0.5. TOC results fro these samples have been qualified as estimated (J).

Sample Documentation

Provided laboratory reports included all the necessary information to perform the described data review

Validation Qualifiers

The following validation qualifiers may have been applied to the data, as appropriate.

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.
- U = The analyte was tested, but was not detected above the sample reporting limit.
- R = The sample result is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Appendix J: Tabular Summary of Analytical Data

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS				450.	19.0	59,000	140.	78.0				590.	45,000
12K-B1-0.5-2	'0.5-2	09/06/01	20,400 J	1.20 UJ	2.20		0.710	0.580 U	1,040		26.1 J	10.8	29.6
12K-B1-0-0.5	'0-0.5	09/06/01	12,000 J	2.20 UJ	32.6		0.990	1.50	20,700		79.7 J	14.3	114.
12K-B2-0.5-2	'0.5-2	09/06/01	20,700 J	1.20 UJ	2.70		1.20	0.620 U	2,020		26.5 J	12.7	22.5
12K-B2-0-0.5	'0-0.5	09/06/01	17,400 J	1.20 UJ	7.90		1.40	0.580 U	1,680		26.1 J	16.2	87.4
150K-1-0.5-2	'0.5-2	09/10/01	11,900 J	1.20 UJ	2.50	84.3	0.800	0.580 U	3,210		21.8	8.40	35.8
150K-1-0-0.5	'0-0.5	09/10/01	20,100 J		8.90 J	817.	19.1	1.20 U	26,300		227.	157.	2,960
230-B1-0.5	'0-0.5	10/02/01	9,240 J	1.20 UJ	4.20	67.7	0.580 U	0.580 U	1,570		16.0	7.60	54.8 J
230-B10-0-0.5	'0-0.5	08/30/01	11,300 J	2.90 UJ	9.60	210. J	0.720 U	26.6	54,300		92.9	24.0	507.
230-B10-1.5-2	'1.5-2	08/30/01	13,500 J	1.30 UJ	4.10	164. J	0.650	4.30	23,800		24.4	7.30	168.
230-B-101-0-1	'0-1	12/04/06											
230-B11-0-0.5	'0-0.5	08/30/01	12,800 J	1.10 UJ	1.90	452. J	0.550 U	2.70	16,300		44.5	15.5	132.
230-B11-1.5-2	'1.5-2	08/30/01	14,300 J	1.10 UJ	15.4	185. J	0.560 U	5.10	3,340		23.1	8.80	51.5
230-B1-4-6	'4-6	10/02/01	9,560 J	1.20 UJ	4.60	111.	0.610 U	22.0	4,610		74.4	9.60	1,090 J
230-B2-0-0.5	'0-0.5	08/30/01	12,700 J	1.20 UJ	25.3	146. J	0.650	2.00	2,970		28.7	9.10	999.
230-B2-1.5-2	'1.5-2	08/30/01	7,740 J	1.10 UJ	1.60	34.6 J	0.550 U	0.550 U	550. U		11.7	5.50 U	11.4
230-B3-0-0.5	'0-0.5	08/30/01	4,430 J	1.20 UJ	1.20 U	49.2 J	0.580 U	7.80	11,000		19.1	6.20	113.
230-B3-1.5-2	'1.5-2	08/30/01	12,300 J	1.20 UJ	8.20	77.0 J	0.600 U	0.930	6,060		24.7	8.40	243.
230-B4-0-0.5	'0-0.5	08/30/01	11,800 J	1.20 UJ	11.4	100. J	0.600 U	67.2	7,080		49.6	15.3	691.
230-B4-1.5-2	'1.5-2	08/30/01	10,900 J	1.20 UJ	4.00	71.2 J	0.760	0.580 U	1,410		19.8	9.80	25.6
230-B5-0-0.5	'0-0.5	09/13/01	13,000 J	1.20 UJ	6.30	394.	0.590 U	9.00	19,100 J		40.1	15.9	272.
230-B5-1.5-2	'1.5-2	09/13/01	12,600 J	1.10 UJ	2.70	26.8	0.560 U	0.560 U	1,420 J		13.1	5.60 U	14.6
230-B6 0-0.5	'0-0.5	08/22/01	15,300 J	1.10 UJ	11.0	172.	0.570	1.40	12,100		34.3	13.2	158.
230-B6 1.5-2	'1.5-2	08/22/01	13,700 J	1.10 UJ	4.40	77.2	0.660	0.570 U	1,410		25.4	8.30	40.3
230-B7 0-0.5	'0-0.5	08/22/01	15,600 J	1.20 UJ	7.10	163.	0.660	4.10	8,350		53.1	18.2	499.
230-B7 1.5-2	'1.5-2	08/22/01	20,500 J	1.10 UJ	8.10	125.	0.970	0.570 U	3,640		66.4	13.3	43.5
230-B8 1.5-2	'1.5-2	08/22/01	14,600 J	1.20 UJ	6.10	120.	1.10	0.790	4,530		26.5	9.90	115.
230-B9 0-0.5	'0-0.5	08/22/01	16,700 J	1.00 UJ	1.50	76.8	0.520 U	5.20	12,000		45.6	22.8	232.
230-B9 0-0.5	'0-0.5	08/22/01	14,000 J	1.10 UJ	3.00	299.	0.560	1.10	11,900		32.4	21.1	136.
230-B9 1.5-2	'1.5-2	08/22/01	10,700 J	1.10 UJ	8.30	22.0 U	0.930	0.540 U	540. U		23.8	5.40 U	7.60
231-101-0-1	'0-1	12/06/06											
231-102-0-1	'0-1	12/04/06											
231-B1-0-0.5	'0-0.5	10/05/01	5,960	1.10 U	4.70	119.	0.570 U	0.570 U	570. U		30.4	11.9	30.2
231-B10-0-0.5	'0-0.5	09/17/01	11,000 J	1.20 UJ	3.40	289. J	1.20	3.10	6,770		33.0	18.0	376.
231-B11-0-0.5	'0-0.5	09/19/01	14,800 J	1.30 UJ	15.0	110.	0.670	0.670			36.4	10.1	84.7

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	09/19/01	15,200 J	1.40 UJ	11.4	88.7	0.760	0.700 U			43.4	10.2	74.6
231-B12-0-0.5	'0-0.5	09/17/01	14,900 J	1.20 UJ	6.80	320. J	0.600	2.60	12,400		45.9	17.1	242.
231-B13-0-0.5	'0-0.5	09/19/01	9,060 J	1.20 UJ	5.60	2,080	1.10	6.90			145.	13.3	473.
231-B13-8-10	'9-10	09/27/01		1.10 UJ	2.80	101. J	0.740	0.560 U	2,040 J		23.8	9.00	24.4
231-B14-0-0.5	'0-0.5	09/19/01	13,000 J	1.20 UJ	14.8	240.	0.640	1.60			49.7	11.8	125.
231-B2-0.5-2	'0.5-2	08/22/01	13,900	1.10 U	6.90	1,860	0.690	0.610	4,980		44.0	11.3	52.1
231-B2-0-0.5	'0-0.5	08/22/01	13,400	2.30 U	6.30	551.	0.570 U	0.610	13,300		66.5	14.8	144.
231-B3-0-0.5	'0-0.5	08/22/01	7,210	1.20 U	9.10	7,310	0.600 U	3.30	15,100		104.	9.20	183.
231-B4-0-0.5	'0-0.5	08/30/01	14,500 J	1.20 UJ	2.20	264. J	0.580 U	0.610	12,400		27.0	20.4	62.7
231-B4-6-8	'6-8	09/27/01		1.20 UJ	3.20	72.9 J	0.600 U	0.600 U	1,750 J		14.4	6.00 U	20.4
231-B5-0.5-2	'0.5-2	09/19/01	18,000 J	1.20 UJ	5.10	102.	0.760	0.610 U	896.		25.5	6.10 U	20.0
231-B6-0-0.5	'0-0.5	09/27/01		1.20 UJ	9.30	1,430 J	0.600 U	1.00	12,600 J		45.3	11.1	112.
231-B6-4-6	'4-6	09/27/01		3.20 UJ	12.7	518. J	1.60 U	3.50	14,200 J		251.	23.2	1,370
231-B7-0-0.5	'0-0.5	09/13/01	11,200 J	1.20 UJ	9.00	755.	0.580 U	1.10	17,700 J		40.8	10.9	206.
231-B8-0-0.5	'0-0.5	09/27/01		2.40 UJ	16.3 J	1,460 J	1.20 UJ	6.60 J	3,670 J		165. J	13.9 J	820. J
231-B8-8-10	'8-10	09/27/01		10.5 J	48.1	476. J	0.820 U	0.820 U	2,160 J		7,250	8.20 U	1,420
231-B9-0.5-2	'0.5-2	09/27/01		1.40 UJ	46.8	132. J	0.870	0.720	2,320 J		69.1	9.70	73.3
231-B9-0-0.5	'0-0.5	09/27/01		1.40 UJ	4.80	383. J	1.40	5.00	12,200 J		62.4	16.7	812.
240-1-0-0.5	'0-0.5	09/26/01	12,300 J	1.20 UJ	7.80	1,980	0.760	3.10	13,700 J		52.9	12.0	505.
240-1-8-10	'8-10	10/01/01	15,500	1.20 U	4.10	85.0	0.620	0.620 U	620. U		21.9	7.00	19.1
5K-B1-0-0.5	'0-0.5	10/01/01	13,900	1.20 U	3.50	96.2	0.640	0.600 U	5,160		25.6	11.6	33.8
5K-B2-0-0.5	'0-0.5	08/31/01	14,700 J	1.10 UJ	3.70	3,650	1.50	0.760	20,200		44.1	24.7	235. J
5K-B2-8-10	'8-10	08/31/01	11,400 J	1.30 UJ	3.30	227.	0.790	0.650 U	1,370		22.9	9.50	20.2 J
5K-B3-0-0.5	'0-0.5	09/26/01	15,500 J	1.10 UJ	4.00	5,690	0.560 U	1.20	11,900 J		49.7	9.00	73.4
5K-B4-0-0.5	'0-0.5	10/01/01	13,600	1.20 U	3.10	188.	0.620 U	0.620 U	6,330		22.8	10.0	31.1
5K-B4-4-6	'4-6	10/01/01	10,200	2.30	31.9	4,050	0.750 U	0.750 U	5,280		59.5	97.3	198.
5K-B5-0-0.5	'0-0.5	08/31/01	10,700 J	1.10 UJ	19.0	3,170	0.660	0.540 U	30,500		74.6	8.60	112. J
5K-B5-4-6	'4-6	09/26/01	10,000 J	1.20 UJ	5.00	622.	0.600 U	0.740	31,600 J		55.3	8.20	73.4
AB-1-0-0.5	'0-0.5	09/04/01	13,800	1.10 UJ	15.8	3,480	0.650	1.30	5,090		40.3 J	11.6	
AB-2-0.5-2	'0.5-2	09/04/01	8,810	1.30 UJ	24.4	2,730	0.840	3.40	91,300		27.7 J	7.60	
AB-2-0-0.5	'0-0.5	09/04/01	13,300	1.20 UJ	11.8	6,710	0.790	1.90	9,600		41.7 J	9.90	
ADN-1-0-0.5	'0-0.5	09/05/01	8,410	1.10 UJ	41.3	148.	0.570 UJ	0.570 U	5,480		31.3 J	6.50	76.1
ADN-1-8-10	'8-10	09/05/01	13,900	1.40 UJ	24.4	107.	0.700 UJ	0.700 U	1,500		25.4 J	8.30	44.7
ADN-2-0-0.5	'0-0.5	09/05/01	10,100	1.10 UJ	25.4	115.	0.560 UJ	0.560 U	12,500		59.4 J	9.60	103.
ADN-2-10-11	'10-11	09/27/01		1.20 UJ	6.60	58.5 J	0.740	0.580 U	768. J		19.0 J	7.60	17.9

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADS-1-0-.5	'0-0.5	07/17/01	7,030	6.20 J	42.1	534.	0.650	0.590 U	5,790		34.2	19.7	456.
ADS-10-0-0.5	'0-2	07/18/01	20,100	75.2 J	89.9	827.	19.1 J	1.10 U	22,600		77.5	581.	7,180
ADS-101-0-1	'0-1	12/05/06	6,840	2.30 UJ	125. J	111. J	0.570 U	0.620	1,390 J	1.20 U	24.6 J	5.70 U	70.2
ADS-101-1-3	'1-3	12/05/06	9,670	2.20 UJ	9.50 J	65.2 J	0.560 U	0.560 U	597. J	1.10 U	17.3 J	7.40	19.8
ADS-102-0-1.5	'0-2	12/05/06	9,380	2.20 UJ	10.2 J	129. J	0.550 U	0.610	2,080 J	1.10 U	15.2 J	7.60	39.8
ADS-102-7-8	'4-8	12/05/06	12,000	2.30 UJ	4.60 J	91.2 J	0.640	0.580 U	702. J	1.20 U	18.6 J	8.70	18.9
ADS-10-4-6	'4-6	07/18/01	5,510	2.30 J	85.7	110.	0.630 UJ	0.630 U	1,600		15.8	12.8	425.
ADS-11-0-0.5	'0-2	07/18/01	22,200	78.1 J	81.3	1,190	27.2 J	1.10	25,400		102.	623.	8,670
ADS-12-0.5-2	'0.5-2	07/18/01	13,900	1.20 UJ	19.5	157.	0.800 J	0.600 U	3,190		28.8	13.5	61.1
ADS-12-0-0.5	'0-0.5	07/18/01	13,400	1.10 UJ	13.4	198.	0.560 J	0.540 U	8,950		27.6	10.1	73.8
ADS-2-0-0.5	'0-0.5	07/18/01	15,200	2.10 UJ	1.90	176.	0.530 UJ	0.530 U	16,200		19.8	19.8	89.2
ADS-2-4-6	'4-6	07/18/01	12,700	1.10 UJ	4.50	50.7	0.570 UJ	0.570 U	2,400		19.3	10.2	26.7
ADS-3-0-0.5	'0-0.5	07/18/01	13,000	1.10 UJ	13.5	176.	0.560 UJ	0.560 U	14,700		26.3	15.4	125.
ADS-4-0-0.5	'0-2	07/18/01	14,500	1.10 UJ	10.5	872.	0.560 UJ	1.20	15,400		36.9	19.2	158.
ADS-4-12-14	'12-14	07/18/01	3,500	1.10 UJ	28.6	70.6	0.550 UJ	0.550 U	2,680		18.5	7.50	54.2
ADS-5-0-0.5	'0-0.5	07/18/01	15,900 J	1.10 UJ	2.00 J	163.	3.70 J	0.740	13,000		73.3	29.1	318. J
ADS-5-4-6	'4-6	09/27/01		1.10 UJ	1.40	25.2 J	0.540 U	0.540 U	540. U		6.20	5.40 U	7.50
ADS-6-0.5-2	'0.5-2	07/18/01	10,900 J	1.20 UJ	23.2 J	4,670	0.950 J	9.40	59,800		53.0	8.60	374. J
ADS-6-0-0.5	'0-0.5	07/18/01	16,500 J	1.10 UJ	10.2 J	1,370	1.40 J	1.60	64,800		38.8	14.7	139. J
ADS-7-0-.5	'0-0.5	07/17/01	12,600	2.60 J	19.8	1,520	0.870	1.80	8,450		31.9	31.6	282.
ADS-8-0-0.5	'0-0.5	07/18/01	10,700	2.00 J	9.30	541.	0.950 J	0.920	18,100		23.4	32.5	374.
ADS-8-4-6	'4-6	07/18/01	6,480	6.40 J	12.2	304.	0.620 UJ	0.620 U	7,570		17.4	15.8	183.
ADS-9-0-0.5	'0-0.5	07/18/01	3,230	1.80 J	8.50	84.6	0.560 UJ	2.00	2,110		10.7	11.9	186.
BLIND DUP	'0-0	08/21/01	18,000 J	1.10 UJ	17.5	4,440	1.30	5.90	6,740		50.9	11.3	56.5 J
BSL-10-0-1	'0-1	09/21/01	10,600	1.40 UJ	9.30	7,150	0.940	15.3	67,900		41.5	9.00	61.6
BSL-1-0-1	'0-1	09/20/01	6,480 J	1.20 J	7.50	12,400 J	0.620 U	0.680	27,700		13.4	7.00	28.6
BSL-101-0-1	'0-1	12/06/06											
BSL-11-0-1	'0-1	09/26/01	8,760 J	2.70 UJ	16.2	3,330	1.40 U	6.80	4,440 J		29.4	14.0 U	60.6
BSL-12-0-1	'0-1	09/26/01	4,400 J	1.10 UJ	3.40	5,020	0.750	0.620	6,630 J		16.6	6.10	59.9
BSL-1-4-6	'4-6	09/20/01	2,690 J	1.40 UJ	7.00	152. J	0.710 U	4.50	134,000		10.0	7.10 U	23.7
BSL-2-0-1	'0-1	09/21/01	17,600	1.50 UJ	9.60	10,900	0.950	6.40	2,370		21.4	11.6	40.4
BSL-3-0-0.5	'0-0.5	09/20/01	9,140 J	1.10 UJ	2.10	827. J	0.550	0.540 U	540. U		7.30	5.40 U	11.6
BSL-4-0-1	'0-0.5	09/21/01	3,870	1.20 UJ	2.70	2,380	0.600 U	0.600 U	600. U		9.90	6.00 U	20.2
BSL-4-4-6	'4-6	09/21/01	13,500	1.80 UJ	29.5	5,860	1.10	84.4	41,300		36.9	9.60	87.5
BSL-5-0-.5	'0-0.5	09/21/01	8,960	1.10 UJ	2.60	4,150	0.550 U	0.730	1,540		8.50	6.70	18.4

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-6-0-1	'0-1	09/26/01	8,750	1.50 U	23.2	6,470	0.770 U	4.50	3,300		34.2	8.30	77.6
BSL-6-1-2	'1-2	09/26/01	17,600 J	1.90 UJ	40.0	470.	1.30	384.	49,300 J		77.8	9.50 U	228.
BSL-7-0-.5	'0-0.5	09/21/01	5,110	1.20 UJ	3.80	10,400	0.620 U	2.30	1,420		8.10	6.20 U	33.8
BSL-8-0-1	'0-1	09/26/01	13,500 J	1.60 UJ	30.8	732.	1.00	240.	44,400 J		59.1	7.90 U	136.
BSL-9-.5-2	'0.5-2	09/21/01	19,000	1.60 UJ	11.2	5,830	1.10	23.6	20,800		37.0	16.1	63.6
BSL-9-0-.5	'0-0.5	09/21/01	5,470	1.20 UJ	1.60	4,530	0.610 U	0.610 U	610. U		6.50	6.10 U	10.3
BT-B1-0-0.5	'0-0.5	09/18/01	12,200 J	1.10 UJ	9.20	261. J	0.630	0.820	2,030		26.8	8.30	49.3
BT-B2-0.5-2	'0.5-2	09/18/01	17,600 J	1.20 UJ	5.30	115. J	0.900	0.640	2,440		27.8	11.0	45.6
BT-B2-0-0.5	'0-0.5	09/18/01	18,200 J	1.20 UJ	5.20	170. J	1.10	0.890	3,000		40.0	16.8	137.
BT-B3-0-0.5	'0-0.5	09/18/01	10,500 J	1.10 UJ	4.40	173. J	0.980	2.90	3,880		28.0	7.60	67.9
BT-B4-0.5-2	'0.5-2	08/30/01	13,200 J	1.20 UJ	1.60	138. J	0.700	0.580 U	9,060		20.2	10.6	27.5
BT-B4-0-0.5	'0-0.5	08/30/01	7,630 J	1.00 UJ	1.00 U	41.8 J	0.510 U	0.510 U	14,100		16.3	11.1	68.8
BT-B5-0-.5	'0-0.5	10/02/01	11,000 J	1.30 UJ	7.80	879.	0.660 U	1.50	8,170		37.2	10.4	261. J
BT-B6-0.5-2	'0.5-2	09/17/01	16,900 J	1.30 UJ	4.70	1,320 J	0.640 U	1.30	2,950		67.0	7.10	91.6
BT-B6-0-0.5	'0-0.5	09/17/01	9,620 J	4.20 UJ	12.4	767. J	2.30	6.20	13,100		185.	45.9	830.
CF-1-0-0.5	'0-0.5	08/31/01	5,760 J	1.20 UJ	7.70	3,410	0.580 U	1.60	2,250		12.2	8.00	29.9 J
CF-1-2-4	'2-4	08/31/01	11,300 J	1.20 UJ	35.0	1,970 J	0.710	9.60	5,600		25.4	9.10	56.0 J
CF-2-0-0.5	'0-0.5	08/28/01	6,710 J	1.20 UJ	24.5	1,060 J	0.610 U	3.20	27,100		19.9	6.10 U	44.4
CF-3-0.5-2	'0.5-2	08/28/01	17,500 J	3.80 UJ	59.2	5,910 J	1.20	43.6	10,200		47.2	14.0	136.
CF-3-0-0.5	'0-0.5	08/28/01	14,900 J	1.50 UJ	63.3	5,850 J	0.740 U	5.80	2,000		50.1	7.40 U	74.5
CF-4-0-0.5	'0-0.5	08/28/01	9,510 J	1.30 UJ	95.2	8,270 J	0.650 U	11.6	8,870		46.2	8.90	126.
CF-5-0-0.5	'0-0.5	08/28/01	2,940 J	1.10 UJ	3.00	1,460 J	0.540 U	0.540 U	540. U		5.80	5.40 U	11.0
CF-5-4-6	'4-6	08/28/01	6,360 J	1.10 UJ	16.1	5,750 J	0.550 U	1.60	5,130		18.6	5.50 U	58.2
CF-6-0-0.5	'0-0.5	08/28/01	7,200 J	1.10 UJ	13.5	4,510 J	0.570 U	2.20	1,540		16.3	5.70 U	29.9
CF-7-0-0.5	'0-0.5	08/28/01	7,280 J	1.70 J	40.1	812. J	0.560 U	7.10	19,400		27.0	5.60 U	51.2
CF-7-4-6	'4-6	08/28/01	8,370 J	6.00 J	28.4	3,070 J	2.20	1.70	11,700		29.6	25.0	412.
CF-8-0-0.5	'0-0.5	08/28/01	6,870 J	1.10 UJ	19.6	2,370 J	0.570 U	3.40	20,400		18.0	5.70 U	44.6
CF-9-0.5-2	'0.5-2	08/31/01	12,900 J	2.10 UJ	21.2	5,450	0.530 U	2.20	15,200		27.8	17.2	60.2 J
CF-9-0-0.5	'0-0.5	08/31/01	4,650 J	1.10 UJ	11.6	4,320	0.540 U	2.20	2,810		11.8	5.40 U	33.9 J
DC-B12-0-0.5	'0-0.5	10/03/01	12,100 J	1.10 UJ	10.8	6,850	0.540 U	0.540 U	18,200		44.0	14.9	143. J
DC-B12-2-4	'2-4	10/03/01	17,000 J	1.20 UJ	3.70	7,990	0.590	0.590 U	17,200		59.5	21.6	122. J
DC-SS1-0-0.5	'0-0.5	09/18/01	8,550 J	4.60 UJ	28.9	408. J	2.30 U	8.30	6,080		218.	34.6	1,780
DC-SS11-0-0.5	'0-0.5	09/17/01	6,640 J	1.10 UJ	2.80	3,240 J	0.980	0.990	47,200		33.0	9.60	116.
DC-SS13-0-0.5	'0-0.5	09/17/01	12,900 J	1.10 UJ	2.10	2,260 J	0.540 U	1.60	23,000		18.5	15.1	146.
DC-SS15-0-0.5	'0-0.5	09/17/01	10,600 J	1.30 UJ	5.70	8,630 J	3.60	4.10	55,600		60.0	16.2	317.

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DC-SS17-0-0.5	'0-0.5	09/17/01	11,600 J	1.20 UJ	2.00	5,780 J	0.650	1.60	79,800		39.7	12.0	125.
DC-SS2-0-0.5	'0-0.5	09/17/01	9,650 J	1.10 UJ	8.90	1,120 J	4.70	4.40	25,700		65.4	20.3	542.
DC-SS3-0-0.5	'0-0.5	09/17/01	12,100 J	9.50 J	10.0	612. J	1.90	11.7	6,760		99.3	29.3	938.
DC-SS6-0-0.5	'0-0.5	09/17/01	13,100 J	1.10 UJ	5.40	3,960 J	2.70	2.10	65,000		72.8	20.6	265.
DC-SS7-0-0.5	'0-0.5	09/17/01	6,440 J	1.10 UJ	4.80	6,400 J	2.40	4.40	45,500		47.6	11.5	220.
DC-SS9-0-0.5	'0-0.5	09/17/01	15,500 J	1.20 UJ	2.70	7,010 J	1.30	0.770	24,500		44.0	20.5	159.
DSP-1-0-0.5	'0-0.5	10/03/01	14,100 J	1.20 UJ	10.8	426.	1.10	0.580 U	7,400		33.9	24.0	206. J
DSP-101-0-1	'0-1	12/04/06											
DSP-1-4-6	'4-6	11/19/01		1.30 UJ	33.4	109.	1.20	0.750			28.2	9.80	16.4
DSP-2-0-0.5	'0-0.5	09/04/01	17,300	1.10 UJ	2.40	273.	0.540 U	0.750	15,100		29.6 J	25.1	
DSP-3-0-0.5	'0-0.5	09/04/01	13,400	1.10 UJ	9.50	333.	0.610	0.570 U	6,300		30.3 J	17.4	
DSP-3-2-4	'2-4	09/04/01	18,000	1.20 UJ	2.50	455.	0.940	0.590 U	1,060		27.3 J	11.0	
DSP-4-0-0.5	'0-0.5	09/04/01	15,700	2.50 J	80.5	377.	1.70	1.30	6,570		27.2 J	18.0	
DSP-4-4-6	'4-6	09/26/01		1.30 UJ	280.	216. J	0.780	0.630 U	2,080 J		26.1	12.4	50.0
DUP-01-010824	'0-0.5	08/24/01	6,200	1.20 UJ	4.80	801.	1.00	0.580 U	1,970		9.60	5.80 U	34.5 J
DUP-01-010831	'2-4	08/31/01	9,010 J	1.10 UJ	9.30	864. J	0.590	2.70	6,000		17.8	7.00	33.3 J
DUP-01-010904	'0-0.5	09/04/01	18,400	1.00 UJ	4.70	978.	0.520 U	0.610	23,100		51.3 J	24.5	
DUP-01-010905	'8-10	09/05/01	9,230	9.70 J	228.	172.	0.600 UJ	0.600 U	892.		26.5 J	6.00 U	172.
DUP-01-010906	'0-8	09/06/01	6,160 J	2.20 J	70.9		0.790 U	2.50	20,200		241. J	7.90 U	828.
DUP-01-010913	'0-0.5	09/13/01	12,700 J	1.40 J	22.0	1,320	1.50	0.540 U	9,550 J		31.6	15.3	140.
DUP-01-010917	'0-0.5	09/17/01	6,590 J	1.70 J	8.30	6,180 J	1.90	1.30	38,200		139.	17.2	1,020
DUP-01-010926	'1-2	09/26/01	4,630 J	1.80 UJ	2.20	3,300	0.880 U	1.40	72,000 J		11.5	8.80 U	25.2
DUP-01-010927	'4-6	09/27/01		1.10 UJ	1.10 U	32.9 J	0.540 U	0.540 U	1,260		6.50	5.40 U	14.4
DUP-01-021001	'0-0	10/02/01	11,200 J	1.10 UJ	11.8	987.	0.600	0.820	11,000		70.8	18.7	716. J
DUP-01-08 2201	'1.5-2	08/22/01	18,000 J	1.20 UJ	8.80	142.	0.880	0.580 U	3,910		31.3	12.3	35.9
DUP-01-121001	'0-0	10/12/01	6,600 J	1.10 UJ	11.0	148.	0.530 U	0.590			35.6	9.00	120.
DUP-01-170402	'0-0	04/17/02	9,890	1.40 U	27.4	103.	0.720 U	0.720 U	6,030		19.4	7.20 U	31.9
DUP-02-010913	'0-0.5	09/13/01	6,660 J	1.20 UJ	2.70	393.	0.610 U	1.40	21,100 J		19.8	9.30	190.
DUP-02-010921	'0-1	09/21/01	10,800	1.30 UJ	5.80	7,990	1.30	7.50	61,600		37.7	10.0	60.6
DUP-02-010926	'4-6	09/26/01	11,800 J	1.20 UJ	5.80	360.	0.630 U	0.760	24,000 J		35.0	11.8	89.8
DUP060807	'0-0	06/08/07	10,800	338.	734.	1,430	4.80	5.70	8,160	1.00 U	188.	263.	7,270
DUP-1-010828	'0-0.5	08/28/01	7,450 J	1.10 UJ	13.5	4,260 J	0.710	1.60	1,490		17.4	5.70 U	28.5
DUP-1-010921	'0-0.5	09/21/01	6,820	1.30 UJ	5.20	11,900	0.690	1.10	4,670		11.6	7.40	28.6
DUP110606	'15-17	11/06/06	17,900	2.50 UJ	5.90	72.1 J	0.760	0.630 U	831. J	1.30 UJ	28.2 J	7.60 J	13.9
DUP112006	'16-18	11/20/06	16,500	4.00 UJ	10.0	2,070	1.00 U	1.30	7,530	2.00 U	35.1 J	10.0 U	16.6

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP112106	'10-12	11/21/06	20,000 J	4.00 UJ	12.6	1,770 J	1.00 U	2.20	7,380	2.10 U	39.3	11.2	18.3
DUP-120506	'0-4	12/05/06	19,300	114. J	204. J	1,060 J	15.9 J	13.0 U	16,200 J	1.00 U	129. J	439.	5,580
DUP-120606	'0-4	12/06/06	27,800	72.5 J	109. J	986.	26.7 J	5.80	37,800 J	1.00 U	71.8 J	956.	11,500
DUPE071801	'0-0.5	07/18/01	16,700	3.30 UJ	2.30	268.	0.550 UJ	0.550 U	17,400		26.5	21.8	122.
EC-1	'0-1	08/21/01	4,080 J	1.10 UJ	2.10	373.	0.550 U	0.550 U	1,280		11.2	5.50 U	17.3 J
EC-2	'0-1	08/21/01	10,300 J	1.10 UJ	17.4	3,990	0.540 U	8.00	5,660		20.3	7.40	61.1 J
EC-3	'0-1	08/21/01	8,780 J	1.10 UJ	9.30	632.	0.540 U	1.00	2,990		22.4	6.70	30.7 J
EC-4	'0-1	08/21/01	20,000 J	1.10 UJ	22.1	3,290	1.50	4.80	11,700		53.2	13.7	52.5 J
EC-5	'0-1	08/21/01	7,720 J	1.10 UJ	1.50	136.	0.540 U	0.540 U	3,630		13.6	6.30	34.4 J
EC-6	'0-1	08/21/01	5,660 J	1.20 UJ	2.30	72.2	0.590 U	0.590 U	1,130		10.4	5.90 U	21.9 J
EC-7	'0-1	08/21/01	14,400 J	1.20 UJ	11.7	3,650	0.630	6.00	4,470		28.8	9.90	51.0 J
EC-8	'0-1	08/21/01	11,300 J	1.10 UJ	5.00	770.	0.580	0.720	4,770		21.1	9.60	45.7 J
EC-9	'0-1	08/21/01	17,300 J	1.20 UJ	7.70	347.	0.850	1.00	6,970		30.3	14.1	76.7 J
ESR-1-0-1	'0-0.5	09/04/01	9,320	1.10 UJ	1.90	710.	0.560 U	0.560 U	855.		16.0 J	5.60 U	
ESR-1-4-6	'4-6	09/04/01	5,050	1.30 UJ	3.90	4,590	0.640 U	0.640 U	78,300		7.30 J	6.40 U	
HB-101A	'17-17	03/05/07	7,050	2.20 UJ	2.60	62.7	0.560 U	0.560 U	701.	1.20 U	19.6	5.90 J	11.3
HB-102A	'0-0	03/13/07	18,100	3.50 UJ	9.20	45.0	0.870 U	0.870 U	1,880	1.80 U	32.4	10.2 J	15.0
HB-102B	'0-0	03/14/07	9,810 J	2.40 UJ	3.20	77.8 J	0.610 U	0.610 U	19,000 J	1.20 U	17.4 J	8.00 J	16.4
HB-102C	'0-0	03/14/07	10,200 J	2.30 UJ	6.70	193. J	1.00	0.570 U	5,990 J	1.10 U	31.3 J	15.7 J	6.60
H-B-103A	'17-17	02/20/07	10,100	3.20 UJ	4.00	102.	0.810 U	0.810 U	18,100	1.60 U	23.6	9.80	15.1
H-B-104A	'17-17	02/23/07	6,780	2.60 UJ	4.20	79.1	0.650 U	0.650 U	2,240 J	1.20 U	18.1	7.90	11.3
H-B-104B	'17-17	02/23/07	6,050	2.40 UJ	2.40 U	46.0	0.600 U	0.600 U	631. J	1.20 U	20.5	6.00 U	12.1
H-B-104C	'17-17	02/23/07	5,130	2.40 UJ	2.40 U	57.8	0.610 U	0.610 U	785. J	1.30 U	10.9	6.10 U	12.6
H-B-104D	'17-17	02/27/07	5,790	2.40 UJ	2.40 U	43.4	0.590 U	0.590 U	590. U	1.20 U	10.5	5.90	43.0
H-B-104E	'17-17	02/27/07	3,820	2.40 UJ	2.40 U	32.2	0.610 U	0.610 U	610. U	1.20 U	8.50	6.10 U	4.40
H-B-105C	'17-17	02/08/07	11,000	2.20 UJ	3.30	31.1	0.830	0.540 U	36,500	1.10 U	21.8	12.8	10.9
H-B-105D	'17-17	02/08/07	10,300	2.40 UJ	4.00	114.	0.610	0.600 U	3,000	1.20 U	19.3	9.60	14.7
H-B-105E	'0-0	02/08/07	7,850	2.50 UJ	8.50	75.5	0.690	0.620 U	620. U	1.20 U	16.4	6.40	8.30
HB-1A	'6.75-6.75	04/18/02	14,900	1.80 U	13.4	42.8	0.900 U	0.900 U	2,640		36.1	9.00 U	54.2 J
HB-3A	'5.25-5.25	04/17/02	10,300	1.50 U	26.8	77.4	0.770 U	0.770 U	4,790		16.8	7.70 U	24.3
HB-3B	'4.5-4.5	04/17/02	10,100	1.20 UJ	2.80	84.3	0.610 U	0.610 U	18,600		17.4	8.90	15.8
HB-3C	'4.5-4.5	04/18/02	9,970	1.20 UJ	2.80	68.7	0.620 U	0.620 U	18,200		18.0	8.70	15.0
HB-3D	'4.5-4.5	04/18/02	10,200	1.30 UJ	2.60	91.5	0.660 U	0.660 U	20,700		19.2	8.30	16.7
HB-4A	'5.33-5.33	04/19/02	7,180	1.30 U	3.60	26.0 U	0.650 U	0.650 U	650. U		8.20	6.50 U	5.60 J
HB-5A	'3-3	04/22/02	14,200	1.20 U	5.40	88.7	0.810	0.620 U	6,780		26.6	11.1	37.4

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HB-7A	'5-5	04/19/02	11,000	1.20 U	5.70	85.5	0.610 U	0.610 U	6,220		18.1	6.80	51.9 J
HB-8A	'3-3	04/23/02	6,190	1.20 U	10.5	92.8	0.620 U	0.630	23,500		76.0	6.40	82.5
HB-8B	'4.83-4.83	04/23/02	9,270	1.20 U	5.90	43.3	0.600 U	0.600 U	2,410		17.9	7.40	23.0
HB-8C	'5.5-5.5	04/23/02	8,620	1.30 U	55.4	76.4	0.640 U	0.640 U	18,500		34.1	6.90	62.5
HB-9A	'4.75-4.75	04/24/02	7,610	1.20 U	6.10	160.	0.620 U	0.620 U	13,900		20.5	8.10	95.9
HF-B1-0-0.5	'0-0.5	09/10/01	16,200 J	1.20 UJ	4.50	115.	0.630	0.590 U	6,230		23.3	10.5	67.9
HF-B1-8-10	'8-10	09/10/01	11,800 J	1.30 UJ	30.9	250.	0.670 U	0.670 U	16,600		32.8	9.70	95.0
HF-B2-0-0.5	'0-0.5	09/04/01	16,700	1.20 J	5.00	994.	0.530 U	0.550	18,200		49.6 J	21.5	
HF-B2-4-6	'4-6	09/04/01	11,000	1.20 UJ	7.00	2,320	0.580 U	3.20	14,000		31.1 J	12.4	
HF-B3-0-.5	'0-0.5	10/02/01	15,000 J	1.10 UJ	6.70	2,730	0.550 U	0.550 U	47,400		30.1	19.6	107. J
HF-B3-8-10	'8-10	10/02/01	13,200 J	1.20 UJ	3.70	325.	0.650	0.600 U	1,340		19.4	8.40	20.3 J
IB-1-0-2	'0-2	04/08/02	9,900	1.10 UJ	4.40	55.0	0.550 U	0.550 U	4,180		15.4	6.60	66.5
IB-1-4-6	'4-6	04/08/02	7,110	1.30 UJ	3.50	40.0	0.630 U	0.660	1,980		15.7	6.40	98.2
IB-2-12-14	'12-14	04/08/02	10,900	1.30 UJ	5.20	76.6	0.670 U	0.670 U	4,510		18.4	9.60	39.4
IB-2-4-6	'4-6	04/08/02	16,500	1.30 UJ	9.30	63.2	0.910	0.630 U	1,980		29.8	16.9	29.2
IB-3-4-6	'4-6	04/08/02	9,060	1.30 UJ	9.80	538.	0.630 U	1.10	32,200		17.6	7.80	542.
IB-3-8-10	'8-10	04/08/02	9,590	1.40 UJ	166.	189.	0.710 U	0.710 U	35,400		70.7	7.70	234.
LB-101-0-1	'0-1	12/06/06	15,300	2.20 UJ	6.30 J	54.4	0.540 UJ	0.920	7,670 J	1.10 U	13.9 J	5.60	24.6
LB-101-1-3	'1-3	12/06/06	23,900	212. J	307. J	1,590	53.3 J	7.10	28,800 J	1.00 U	98.7 J	733.	9,850
LB-102-0-1	'0-3	12/06/06	17,000	2.30 UJ	10.9 J	57.7	0.580 UJ	0.870	580. U	1.10 U	15.6 J	5.80 U	9.00
LB-102-1-3	'3-7	12/06/06	20,100	44.4 J	80.4 J	1,000	45.0 J	4.20	24,100 J	1.60 J	108. J	480.	6,380
LB-103-0-1	'0-1	12/06/06	16,800	60.8 J	73.2 J	585.	16.4 J	2.90	12,200 J	1.10 U	36.3 J	261.	3,890
LB-103-5-7	'5-7	12/06/06	13,200	124. J	260. J	955.	12.1 J	5.00	13,200 J	1.20 U	81.2 J	315.	5,010
LCP-231-SS112706	'0-0	11/27/06	212. J	10.0 UJ	10.0 U	38.4 J	0.510 U	3.40 J	510. U		31.6	20.0	131.
LHP-101-0-1	'0-1	12/04/06	7,930	2.90 J	16.4	185. J	0.790	1.70	4,980 J	1.10 U	36.2	15.6	146.
LHP-101-5-8	'4-8	12/04/06	7,790	2.70 UJ	252.	139. J	0.680 U	1.20	1,360 J	1.40 U	29.3	8.40	50.4
LHP-102-0-1	'0-1	12/05/06	10,400	4.50 J	17.4 J	176. J	9.00 J	1.80	12,400 J	2.70 J	69.2 J	30.3	4,380
LHP-102-7-9	'7-9	12/05/06	2,760	17.7 J	145. J	154. J	0.720 U	0.720 U	821. J	1.40 U	26.3 J	7.20 U	302.
LHP-103-0-1	'0-1	12/05/06	7,530	2.30 UJ	8.40 J	112. J	0.560 U	0.620	35,400 J	1.10 U	18.2 J	9.90	75.7
LHP-103-1-3	'1-3	12/05/06	7,730	2.90 J	7.60 J	106. J	0.920	0.830	27,200 J	1.20 U	13.0 J	13.1	116.
LHP-104-0-1	'0-1	12/05/06	4,260	4.20 J	6.70 J	48.2 J	1.30 J	0.500 U	1,060 J	1.00 U	16.2 J	11.8	126.
LHP-104-7-9	'4-8	12/05/06	17,900	318. J	775. J	3,600 J	15.0 U	15.0 U	9,460 J	1.20 U	111. J	602.	7,300
LHP-105-0-1	'0-1	12/05/06	23,900	202. J	335. J	1,710 J	18.7 J	14.0 U	23,200 J	1.10 U	131. J	681.	8,600
LHP-105-1-3	'1-3	12/05/06	22,400	193. J	326. J	1,730 J	15.0 J	13.0 U	21,600 J	1.10 U	123. J	702.	9,150

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-106-0-1	'0-1	12/04/06	14,000	186. J	255.	1,110 J	8.40	1.10 U	14,600 J	1.30	87.2	306.	4,350
LHP-106-1-3	'1-3	12/04/06	17,600	142. J	165.	939. J	31.5	1.00 U	22,400 J	1.00 U	66.6	530.	8,780
LHP-107-0-1	'0-1	12/05/06	18,200	15.3 J	31.1 J	450. J	17.9 J	0.530 U	25,500 J	1.10 U	68.6 J	564.	7,050
LHP-107-5-7	'4-8	12/05/06	16,900	275. J	437. J	1,060 J	6.00 J	10.0	7,950 J	1.10 U	144. J	366.	6,250
LHP-108-0-1	'0-1	12/06/06	7,830	2.30 UJ	2.70 J	58.8	0.570 UJ	0.570 U	20,200 J	1.10 U	14.1 J	7.70	37.1
LHP-108-3-7	'3-7	12/06/06	11,800	2.50 UJ	20.8 J	127.	0.820 J	1.20	4,450 J	1.20 U	31.4 J	12.8	63.6
LHP-109-0-1	'0-1	12/06/06	15,200	2.20 UJ	5.50 J	115.	0.550 UJ	1.20	25,700 J	1.20 U	29.5 J	21.3	177.
LHP-109-7-9	'7-9	12/06/06	10,000	2.70 UJ	64.5 J	121.	0.680 UJ	0.880	2,460 J	1.40 U	29.0 J	11.5	36.3
LHP-110-0-1	'0-1	12/04/06	12,800	2.30 UJ	18.9	869. J	0.580 U	1.00	11,100 J	1.20 U	33.5	31.5	251.
LHP-111-0-1	'0-1	12/04/06	11,900	2.20 UJ	10.9	508. J	0.550 U	0.550 U	1,830 J	1.10 U	20.4	7.50	31.2
LHP-112-0-1	'0-1	12/04/06	10,300	2.30 UJ	3.20	41.1 J	0.570 U	0.570 U	698. J	1.10 U	15.2	6.60	19.4
LHP-113-0-1	'0-1	12/04/06	10,300	2.10 UJ	6.50	96.9 J	0.540 U	1.00	8,900 J	1.10 U	11.0	15.8	66.3
LHP-114-0-1	'0-1	12/04/06	10,600	2.10 UJ	21.1	325. J	0.530 U	1.40	8,030 J	1.10 U	20.7	16.7	120.
LHP-115-0-1	'0-1	12/04/06	12,900	2.10 UJ	2.10 U	21.0 UJ	0.530 U	0.830	11,800 J	1.10 U	4.70	17.9	51.8
LHP-116-0-1	'0-1	12/04/06	9,590	2.30 UJ	23.5	98.8 J	0.580 U	0.780	3,170 J	1.10 U	14.7	10.1	62.1
LHP-117-0-1	'0-1	12/04/06	9,610	2.40 UJ	15.6	83.2 J	0.600 U	1.20	1,320 J	1.20 U	21.7	7.80	129.
LHP-118-0-1	'0-1	12/04/06	6,590	5.60 J	14.8	310. J	10.1	1.20	6,520 J	3.30	18.3	108.	1,740
LHP-119-0-1	'0-1	12/04/06	8,280	5.30 J	25.6	198. J	0.650	0.900	12,300 J	1.20 U	14.4	14.4	129.
LHP-120-0-1	'0-1	12/04/06	7,320	4.30 J	22.3	355. J	0.670 U	2.20	5,080 J	1.30 U	169.	14.9	121.
LHP-121-0-1	'0-1	12/06/06	13,800	2.20 UJ	6.20 J	111.	0.540 UJ	1.80	9,940 J	1.10 U	27.2 J	17.5	130.
LHP-122-0-1	'0-1	12/06/06	14,000	2.10 UJ	5.30 J	90.0	0.530 UJ	1.50	15,900 J	1.10 U	41.3 J	20.2	185.
LHP-123-0-1	'0-1	12/04/06	13,000	16.1 J	29.1	206. J	0.580	1.20	12,600 J	1.20 U	27.8	34.8	323.
LHP-124-.5-2	'0.5-2	10/27/06	8,570	0.540 UJ	5.10	83.7	0.0120 U	0.0580 U	43,000	0.260 U	21.5	7.10	45.0 J
LHP-124-10-12	'10-12	10/31/06	17,400 J	0.430 UJ	8.60	35.9 J	0.790 J	0.0460 U	1,630 J	0.410 U	33.1	9.70	12.7
LHP-124-2-4	'2-4	10/27/06	13,800	0.570 UJ	3.00	211.	0.890	0.0610 U	2,980	0.260 U	19.8	46.1	14.8 J
LHP-124-28-30	'28-30	10/31/06	11,700 J	0.640 UJ	0.500 U	139. J	0.0140 U	0.0680 U	25,000 J	0.310 U	20.0	9.40	18.5
LHP-125-.5-2	'0.5-2	10/27/06	7,840	2.90 J	9.30	93.2	0.0110 U	0.0560 U	21,300	2.20	20.4	11.2	97.0 J
LHP-125-10.5-12	'10.5-12	11/01/06	13,000 J	0.600 UJ	4.60	26.3 J	0.0130 U	0.0640 U	2.70 U	0.280 U	15.5	0.130 U	7.40
LHP-125-12-14	'12-14	11/01/06	12,400 J	0.550 UJ	5.00	324. J	0.840 J	0.0580 U	1,130 J	0.260 U	22.9	10.7	14.5
LHP-125-4-6	'4-6	10/27/06	8,470	0.530 UJ	3.40	132.	0.0110 U	0.0560 U	3,970	1.10	22.7	9.70	18.0 J
LHP-126-10.5-12	'10.5-12	11/01/06	6,530 J	0.450 UJ	17.3 J	41.1 J	0.550 J	0.0480 UJ	6,460 J	1.10 UJ	10.3 J	0.0960 UJ	34.5 J
LHP-126-14-16	'14-16	11/01/06	11,000 J	0.540 UJ	4.50	91.5 J	0.890 J	0.0580 U	6,480 J	0.260 U	22.7	11.1	17.4
LHP-126-2-4	'2-4	10/26/06	15,800 J	195. J	221.	946. J	22.3 J	14.0 U	16,900 J	1.60	81.5	368. J	5,760
LHP-126-8-10	'9-10	10/26/06	10,200 J	177.	313.	1,380 J	2.60 J	5.80 U	7,020 J	1.20 U	79.6	206. J	3,640

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-127-0-1	'0-1	12/06/06	24,600	49.2 J	51.8 J	1,200	27.3 J	3.30	35,400 J	3.20 J	77.2 J	792.	9,480
LHP-127-3-5	'3-5	12/06/06	18,500	315. J	482. J	2,810	11.8 J	7.40	14,300 J	1.10 U	158. J	558.	6,650
LHP-128-0-1	'0-4	12/06/06	27,600	82.7 J	109. J	945.	26.2 J	6.00	35,600 J	1.00 U	76.7 J	965.	11,300
LHP-128-7-8	'17-17	12/06/06	2,120	9.30 J	129. J	186.	0.680 UJ	0.830	865. J	1.40 U	20.1 J	10.6	223.
LP-1-0-0.5	'0-0.5	08/27/01	2,040	1.10 UJ	1.90	495.	0.540 U	0.540 U	540. U		5.60	5.40 U	9.00
LP-10-0.5-2	'0.5-2	08/27/01	7,840	1.20 UJ	7.40	2,000	0.600 U	12.2	81,400		19.2	6.50	76.9
LP-10-0-0.5	'0-0.5	08/27/01	12,500	1.10 UJ	9.20	3,220	4.50	4.20	38,200		40.7	14.3	305.
LP-101-11-13	'11-13	11/02/06	20,200	0.910 UJ	11.6	42.8	0.980	0.0970 U	2,270 J	0.410 U	42.9 J	11.1 J	15.4 J
LP-101-14-16	'14-16	11/02/06	12,000	0.770 UJ	5.30	0.150 U	0.0330 U	0.0820 U	1,660 J	0.360 U	23.1 J	0.160 U	9.90 J
LP-101-26-28	'26-28	11/02/06	11,000	0.550 UJ	4.60	156.	0.620	0.0590 U	22,100 J	0.260 U	24.3 J	11.1 J	11.8 J
LP-101-50-52	'50-52	11/02/06	6,270	0.520 UJ	5.40	81.8	0.0220 U	0.0550 U	4,910 J	0.250 U	26.6 J	9.60 J	3.50 J
LP-101-8-10	'8-10	10/27/06											
LP-102-0-1	'0-1	12/04/06											
LP-11-0-0.5	'0-0.5	08/27/01	14,100	1.10 UJ	20.1	6,160	1.80	9.00	44,100		43.0	15.3	173.
LP-12-0-0.5	'0-0.5	08/27/01	6,080	1.10 UJ	3.70	9,570	0.810	0.730	17,400		13.1	12.0	55.0
LP-12-4-6	'4-6	08/27/01	3,380	1.10 UJ	1.90	1,880	0.560 U	0.560 U	2,500		10.3	5.60 U	11.1
LP-13-0-0.5	'0-0.5	08/24/01	7,480	1.20 UJ	9.20	1,260	0.650	2.10	93,600		38.0	9.60	137. J
LP-14-0.5-2	'0.5-2	08/24/01	11,400	1.10 UJ	5.30	2,940	2.10	0.760	32,100		37.9	18.9	175. J
LP-14-0-0.5	'0-0.5	08/24/01	6,900	1.10 UJ	62.2	6,790	0.560 U	0.560 U	32,700		35.0	7.20	60.6 J
LP-15-0-0.5	'0-0.5	08/24/01	7,170	1.10 UJ	5.50	5,720	0.810	1.40	47,200		23.4	9.80	98.4 J
LP-16-0.5-2	'0.5-2	08/27/01	8,590	2.00 UJ	3.80	5,760	0.690	0.640	2,950		14.7	26.1	48.3
LP-16-0-0.5	'0-0.5	08/27/01	7,290	1.00 UJ	8.40	5,160	2.50	1.20	104,000		25.5	11.3	178.
LP-2-0.5-2	'0.5-2	08/28/01	14,400 J	1.20 UJ	18.3	6,960 J	0.680	3.10	14,300		41.8	12.7	131.
LP-2-0-0.5	'0-0.5	08/28/01	5,750 J	1.10 UJ	18.8	4,190 J	0.550 U	1.80	10,600		19.1	5.50 U	59.4
LP-3-0-0.5	'0-0.5	08/27/01	14,000	1.20 UJ	6.70	3,360	0.580 U	0.730	35,300		25.9	16.1	65.1
LP-4 .5-2	'0.5-2	08/21/01	11,500	1.20 UJ	8.80	1,780	0.580 U	1.50	32,700 J		33.3	13.0	90.8
LP-4 0-.5	'0-0.5	08/21/01	10,100	2.20 UJ	4.50	2,390	0.550 U	1.20	24,300 J		18.7	11.1	114.
LP-5-0-0.5	'0-0.5	08/27/01	11,400	5.70 UJ	20.6	10,500	0.940	7.10	21,000		40.4	14.5	291.
LP-6-0-0.5	'0-0.5	08/27/01	15,400	5.40 UJ	5.80	5,930	0.930	0.640	46,100		50.3	22.7	136.
LP-6-4-6	'4-6	08/27/01	4,080 J	1.10 UJ	2.00	497. J	0.550 U	0.550 U	563.		10.6	5.50 U	10.4
LP-7-0-0.5	'0-0.5	08/24/01	9,950	1.20 UJ	16.9	889.	3.00	5.00	54,500		52.4	13.9	290. J
LP-8-0-0.5	'0-0.5	08/24/01	6,840	1.20 UJ	4.60	508.	1.00	0.590 U	1,580		9.20	5.90 U	35.0 J
LP-8-10-12	'10-12	08/24/01	1,890	1.70 UJ	3.20	83.5	0.850 U	125.	174,000		8.60	8.50 U	16.1 J
LP-9-0-0.5	'0-0.5	08/24/01	9,870	1.10 UJ	13.5	4,530	0.540 U	0.730	30,800		26.4	12.8	66.1 J

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-11D-10-12	'10-12	11/09/06											
MW-11D-12-14	'12-14	12/14/06	6,030 J	3.60 UJ	17.1	107. J	0.890 U	0.890 U	3,680 J	6.00 J	18.3 J	8.90 U	34.7
MW-11D-14-16	'14-16	12/14/06	5,250 J	2.40 UJ	2.70	24.0 UJ	0.590 U	0.590 U	590. U	1.20 U	7.00 J	5.90 U	3.60
MW-11D-16-18	'16-18	12/14/06	7,380 J	2.30 UJ	5.40 J	139. J	0.580 U	0.610	791. J	1.20 U	14.8 J	9.00 J	12.7
MW-11D-6-8	'6-8	11/09/06											
MW-14D-13-15	'13-15	11/14/06	16,800 J	2.60 UJ	7.80	230. J	1.00 J	0.640 U	772.	1.30 U	26.2	9.30	18.2
MW-14D-17-19	'17-19	11/14/06	11,600	2.50 UJ	3.00	1,280	0.660	0.610 U	23,300	1.20 U	20.9	11.0	18.9
MW-16D-13-15	'13-15	11/17/06	8,620	2.20 UJ	2.20 U	34.5	0.560 U	0.560 U	560. U	1.20 UJ	15.6 J	5.60 U	9.00
MW-16D-17-19	'17-19	11/20/06	6,520	2.40 UJ	2.40 U	63.0	0.600 U	0.600 U	5,240	1.20 U	13.2 J	7.00	12.0
MW-17D-15-17	'15-17	11/10/06	7,100 J	2.50 UJ	5.80 J	263. J	0.630 U	0.630 U	1,770 J	1.30 U	15.6 J	7.20 J	24.8
MW-17D-17-19	'17-19	11/10/06	5,860 J	2.30 UJ	2.40 J	78.3 J	0.570 U	0.570 U	5,700 J	1.20 U	14.0 J	5.70 UJ	12.0
MW-18D-13-15	'13-15	11/13/06	11,800 J	2.60 UJ	11.4	179. J	0.640 U	0.640 U	798.	1.30 U	15.1	6.40 U	9.00
MW-18D-17-19	'17-19	11/13/06	12,800 J	2.30 UJ	4.70	296. J	0.870 J	0.570 U	17,600	1.20 U	25.3	11.9	21.7
MW-20D-12-14	'12-14	11/09/06	10,800	2.40 UJ	17.5	113.	0.610 U	0.610 U	745.	1.20 U	16.6	6.80 J	13.4
MW-20D-32-34	'32-32.9	11/10/06	10,200 J	2.20 UJ	5.20 J	177. J	0.730	0.550 U	21,600 J	1.20 U	24.3 J	12.3 J	11.0
MW-20D-36-38	'36-38	11/10/06	7,570 J	2.40 UJ	6.40 J	46.1 J	0.670	0.590 U	2,720 J	1.20 U	28.1 J	13.0 J	4.10
MW-21D-13-15	'13-13.7	11/16/06	11,000	2.50 UJ	4.10	82.1	0.620 U	0.620 U	620. U	1.20 U	17.5 J	6.20 U	10.8
MW-21D-15-17	'15-17	11/16/06	7,310	2.40 UJ	3.20	62.2	0.610 U	0.610 U	805.	1.20 UJ	18.0 J	7.00	11.5
MW-23D-15-17	'15-16	11/15/06	14,000	2.40 UJ	11.5	157.	0.610 U	0.610 U	918.	1.20 U	24.4	7.60	19.1
MW-23D-37-39	'37-37.9	11/15/06	9,940	2.30 UJ	4.30	202.	0.880 J	0.870	18,100	1.10 U	23.1 J	12.4	10.9
MW-25D-10-12	'10-12	11/21/06	21,000 J	4.30 UJ	10.4	2,420 J	1.10 U	2.20	10,000	2.10 U	41.7	11.3	22.0
MW-25D-33-35	'33-35	12/18/06	9,460 J	2.60 UJ	2.90	112. J	0.650 U	0.950	23,500 J	1.30 UJ	18.2 J	10.4 J	16.7
MW-26S-8-10	'8-10	10/26/06	14,700 J	2.60 U	42.3	141. J	0.640 UJ	0.860	1,220 J	1.30 U	50.6	11.2 J	47.9
MW-6D-0-2	'0-2	11/08/06	6,420 J	2.20 UJ	5.40	6,740 J	0.560 U	0.560 UJ	17,100	1.10 U	20.2 J	5.60 U	37.5 J
MW-6D-12-14	'12-14	11/08/06	21,100 J	5.10 UJ	78.7	936. J	1.50	50.3 J	114,000	2.70 U	69.1 J	15.6 J	158. J
MW-6D-16-18	'16-18	11/20/06	14,400	3.50 UJ	9.70	3,380	0.880 U	2.30	8,920	1.90 U	29.0 J	8.80 U	17.5
MW-6D-30-32	'30-32	11/21/06	12,300 J	2.40 UJ	4.70	213. J	0.650	1.60	32,500	1.20 U	25.6	12.4	17.2
PCA-1-0-.5	'0-2	07/17/01	11,300	1.00 UJ	5.20	229.	0.510 U	0.510 U	15,300		27.2	16.2	78.7
PCA-1-4-6	'4-6	07/17/01	19,200	1.20 UJ	6.30	296.	1.50	0.580 U	1,370		27.4	12.7	21.8
PCA-2-0-.5	'0-0.5	07/17/01	12,600	1.10 UJ	8.80	2,780	0.560 U	2.60	12,700		46.4	14.3	168.
PCA-3-0-0.5	'0-0.5	09/13/01	13,800 J	14.0 J	16.5	359.	5.00	0.560 U	23,800 J		40.4	124.	1,530
PCA-3-4-6	'4-6	09/13/01	4,670 J	10.6 J	67.1	310.	2.00	0.640	6,250 J		18.4	58.4	948.
PCA-4-0-0.5	'0-0.5	09/13/01	11,700 J	1.10 UJ	7.70	1,120	0.720	0.540 U	16,900 J		26.2	17.8	113.
PCA-4-4-6	'4-6	09/26/01		1.40 UJ	27.5	275. J	0.970	0.700 U	1,830 J		25.0	16.8	134.
PCA-5-0.5-2	'0.5-2	09/07/01	10,800	1.10 UJ	5.80	166.	0.680 J	0.560 U	1,780		18.6	8.40	26.8

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCA-5-0-0.5	'0-0.5	09/07/01	9,950	1.20 UJ	5.70	193.	0.590 UJ	0.590 U	22,200		23.4	6.20	253.
PCA-6-0-0.5	'0-0.5	09/07/01	11,500	1.00 UJ	9.40	1,050	1.30 J	2.60	12,200		84.3	23.5	459.
RR-1 0-0.5	'0-0.5	08/22/01	13,400 J	1.10 UJ	6.70	556.	0.560 U	1.20	12,600		30.2	15.9	273.
RR-1 14-16	'14-16	08/22/01	12,300 J	1.20 UJ	41.8	79.9	0.610	0.590 U	1,860		32.7	9.60	82.6
RR-10 0-.5	'0-0.5	10/12/01	5,170 J	1.30 J	12.5	251.	0.550 U	0.550 U			35.6	7.70	125.
RR-11 0-.5	'0-0.5	10/12/01	5,860 J	1.20 UJ	12.7	167.	0.610 U	0.690			42.2	9.00	145.
RR-12 0-.5	'0-0.5	10/12/01	8,300 J	1.10 UJ	16.4	276.	0.560 U	1.10			33.3	13.9	155.
RR-2-0-0.5	'0-0.5	09/13/01	17,800 J	1.20 UJ	1.20 U	422.	0.590 U	0.590 U	18,600 J		25.8	21.4	83.4
RR-2-8-10	'8-10	09/13/01	12,000 J	1.50 J	15.0	243.	0.760 U	0.760 U	23,500 J		24.8	12.7	115.
RR-3-0-0.5	'0-0.5	09/13/01	19,500 J	1.10 UJ	8.10	740.	0.550 U	1.00	17,800 J		46.9	25.1	137.
RR-4-0-0.5	'0-0.5	09/10/01	13,300 J	1.20 UJ	4.60	298.	1.40	0.720	11,100		54.0	19.0	192.
RR-4-6-8	'6-8	09/13/01	3,670 J	1.20 UJ	7.40	127.	0.580 U	0.580 U	4,410 J		13.4	5.80 U	44.6
RR-5-0-0.5	'0-0.5	09/10/01	14,300 J	1.00 UJ	1.40	142.	0.500 U	0.500 U	11,300		7.30	11.6	60.2
RR-6-0-0.5	'0-0.5	09/10/01	8,140 J	1.00 UJ	4.70	554.	0.510 U	0.880	12,600		17.0	14.1	89.8
RR-6-8-10	'8-10	09/10/01	13,100 J	1.20 UJ	4.30	91.2	0.800	0.600 U	4,940		16.5	8.10	22.2
RR-7-0-0.5	'0-0.5	09/10/01	15,800 J	1.70 J	9.20	350.	0.580	1.00	8,760		33.9	14.0	120.
RR-8-0-0.5	'0-0.5	09/26/01	11,800 J	1.20 UJ	10.0	322.	0.590 U	1.10	3,820 J		36.1	18.1	163.
RR-8-6-8	'6-8	09/26/01	3,520 J	4.90 J	54.3	201.	0.900 U	0.900 U	904. J		31.3	9.00 U	326.
RR-9 0-.5	'0-0.5	10/12/01	6,300 J	1.00 UJ	11.0	293.	0.530 U	0.700			40.5	10.9	155.
SC-1	'0-1	08/21/01	6,100 J	1.30 UJ	4.00	7,360	0.660 U	0.660 U	22,800		14.1	6.60 U	28.9 J
SC-2	'0-1	08/22/01	12,800	1.10 U	3.90	343.	0.580	0.530 U	1,430		23.2	6.40	37.9
SC-3	'0-1	08/22/01	17,800	1.10 U	5.70	126.	0.720	0.570 U	869.		18.7	7.00	35.3
SILO-B1-0-0.5	'0-0.5	09/06/01	11,400 J	1.20 UJ	14.4		0.590 U	0.590 U	54,700		26.9 J	7.30	65.0
SILO-B1-6-8	'6-8	09/06/01	4,680 J	3.10 J	96.8		0.740 U	0.740 U	32,500		77.4 J	7.40 U	243.
SILO-B2-0-0.5	'0-0.5	09/06/01	7,430 J	1.10 UJ	4.70		0.560 U	0.560 U	105,000		19.1 J	6.00	39.3
SILO-B3-0-0.5	'0-0.5	09/06/01	12,100 J	1.10 UJ	13.4		0.570	8.80	26,800		35.8 J	9.10	107.
SILO-B3-6-8	'6-8	09/06/01	14,500 J	1.20 UJ	1.60		0.800	0.580 U	884.		26.3 J	10.0	16.4
SILO-B4-0-0.5	'0-0.5	09/06/01	12,500 J	1.20 UJ	19.7		0.710	0.780	4,540		65.7 J	16.8	128.
SPR-1-0-0.5	'0-0.5	09/05/01	12,900	1.10 UJ	6.40	1,310	0.530 UJ	0.530 U	12,400		28.6 J	14.9	121.
SPR-1-8-10	'8-10	09/05/01	4,580	1.40 UJ	14.0	254.	0.690 UJ	0.690 U	3,120		15.9 J	6.90 U	76.8
SPR-2A-0-0.5	'0-0.5	07/19/01	13,900 J	1.10 UJ	4.60 J	279.	0.560 UJ	1.60	14,100		36.1	17.7	127. J
SPR-2A-8-10	'8-10	07/19/01	5,310 J	1.30 UJ	7.80 UJ	92.5	0.660 UJ	0.660 U	4,650		20.0	7.40	33.5 J
SPR-2B-0-0.5	'0-0.5	07/19/01	15,900	1.10 U	6.90	1,090	0.600	2.40	50,700		55.2	20.1	197.
SPR-2B-10-12	'10-12	07/19/01	11,000	1.50 U	11.6	232.	1.40	0.740 U	5,000		20.4	13.5	27.6

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SPR-3 0-.5	'0-0.5	08/21/01	10,500	5.20 J	11.5	324.	15.1	1.80	22,200 J		94.0	65.9	1,170
SPR-3 4-6	'4-6	08/21/01	11,700	1.20 UJ	8.80	89.3	1.20	0.820	12,200 J		36.8	11.0	136.
SPR-4A-0-0.5	'0-0.5	07/19/01	13,300 J	1.20 UJ	5.80 J	1,460	0.600 UJ	3.10	12,700		52.0	19.1	162. J
SPR-4A-8-10	'8-10	07/19/01	12,000 J	1.70 UJ	25.3 J	1,790	1.40 J	0.990	5,870		110.	9.90	126. J
SPR-4B-0-0.5	'0-0.5	08/22/01	8,210	1.20 U	8.90	131.	0.600 U	0.720	4,010		15.4	7.80	128.
SPR-4B-4-6	'4-6	08/23/01	5,700	1.20 UJ	4.70	59.9 J	0.590 U	0.590 U	1,100		13.5	5.90 U	21.4
SPR-4C-0-0.5	'0-0.5	08/23/01	9,540	1.10 UJ	240.	502.	0.560 U	6.90	5,960		52.9	12.5	146. J
SPR-4C-4-6	'4-6	08/23/01	4,230	1.30 UJ	14.2	79.8	0.650 U	0.650 U	1,640		14.4	6.50 U	38.0 J
SPR-5-0-0.5	'0-0.5	09/05/01	9,720	1.00 UJ	6.60	123.	0.520 UJ	0.610	10,100		26.4 J	12.8	109.
SPR-5-2-4	'2-4	09/05/01	4,770	1.20 UJ	12.4	64.2	0.600 UJ	0.600 U	1,460		13.6 J	6.40	39.7
SPR-6-0.5-2	'0.5-2	09/13/01	6,090 J	13.9 J	16.6	393.	0.540 U	1.60	3,800 J		79.5	8.80	185.
SPR-6-0-0.5	'0-0.5	09/13/01	19,000 J	1.10 UJ	2.30	41.7	0.540 U	0.540 U	11,400 J		13.0	24.0	56.6
SR-1-0-.5	'0-0.5	07/17/01	6,650	5.50 UJ	24.4	409.	1.30	17.7	24,000		180.	19.3	511.
SR-2-0-.5	'0-0.5	07/17/01	10,400	2.30 J	17.4	395.	3.80	12.4	18,200		121.	19.7	415.
SS-08-01-0.5	'0-0.5	05/14/08											
SS-08-02-0.5	'0-0.5	05/14/08											
SS-08-03-0.5	'0-0.5	05/14/08											
SS-08-04-0.5	'0-0.5	05/14/08											
SS-08-05-0.5	'0-0.5	05/14/08											
SS-08-06-0.5	'0-0.5	05/14/08											
SS-08-07-0.5	'0-0.5	05/14/08											
SS-08-08-0.5	'0-0.5	05/14/08											
SS-08-09-1.0	'0-1	05/15/08											
SS-08-10-1.0	'0-1	05/15/08											
SS-08-11-0.5	'0-0.5	05/15/08											
SS-08-12-0.5	'0-0.5	05/15/08											
ST-1-0-0.5	'0-0.5	09/05/01	14,900	1.10 UJ	2.60	237.	0.540 UJ	0.540 U	16,900		21.4 J	18.4	96.1
ST-2-0-0.5	'0-0.5	09/05/01	9,410	7.90 J	28.6	4,050	0.640 J	1.00	9,420		41.9 J	23.3	335.
ST-3-0-0.5	'0-0.5	09/04/01	1,120	1.10 UJ	1.20	51.2	0.570 U	0.570 U	570. U		4.80 J	5.70 U	
ST-3-4-6	'4-6	09/04/01	5,140	1.50 UJ	93.9	2,010	0.740 U	20.0	8,260		27.9 J	8.30	
TES-1-0-1	'0-1	12/05/06	7,290	2.30 UJ	5.70 J	101.	0.570 UJ	3.10	3,740 J		48.2 J	14.3	134.
TES-2-0-1	'0-1	12/04/06	6,840	2.40 UJ	2.40 U	170. J	0.610 U	1.10	6,360 J		13.5	10.3	74.0
TES-3-0-1	'0-1	12/04/06	11,000	2.50 UJ	14.6	1,020 J	0.630 U	5.80	5,620 J		104.	14.5	272.
TES-4-0-1	'0-1	12/05/06	8,000	20.9 J	32.3 J	289. J	6.90 J	1.60	7,480 J		17.7 J	113.	1,360
TLN-1 .5-2	'0.5-2	08/20/01	17,600 J	1.20 J	9.10	705.	0.680	1.30	14,800		37.7	21.1	145. J

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLN-1 0-.5	'0-0.5	08/20/01	13,100 J	1.20 UJ	23.3	297.	2.90	0.620 U	9,630		167.	22.1	367. J
TLN-2-0-0.5	'0-0.5	07/19/01	22,000 J	1.00 UJ	3.30 J	301.	0.620 J	1.80	24,200		38.9	25.1	114. J
TLN-3-0-.5	'0-0.5	07/17/01	10,600	1.10 UJ	3.20	2,170	0.750	1.20	16,500		31.5	13.2	156.
TLN-3-2-4	'2-4	07/17/01	4,980	1.20 UJ	8.00	82.4	0.710	0.610 U	1,440		15.5	6.10 U	24.5
TLN-4 0-.5	'0-0.5	08/20/01	12,900	1.00 UJ	4.30	903.	1.40	0.520 U	13,400		55.8	20.1	200. J
TLN-4 0-.5 DUP	'0-0.5	08/20/01	13,800 J	1.00 UJ	5.20	1,030	0.760	0.810	15,400		39.3	17.1	152. J
TLN-5 .5-2	'0.5-2	08/20/01	14,000 J	1.50 J	12.9	76.9	0.550 U	0.550 U	31,100		18.7	13.6	74.2 J
TLN-5 0-.5	'0-0.5	08/20/01	12,100 J	1.00 UJ	9.10	84.3	0.520 U	0.700	42,300		25.8	10.1	50.3 J
TLN-5-4-6	'4-6	08/30/01	11,200 J	1.20 UJ	5.90	62.2	0.580 U	0.580 U	19,800		21.2	11.3	51.4 J
TLN-6 0-.5	'0-0.5	08/20/01	14,500 J	1.10 UJ	12.8	211.	10.5	1.10	40,400		171.	32.1	399. J
TLS-10 0-.5	'0-0.5	08/21/01	17,800	5.70 UJ	1.10	109.	0.570 U	0.570 U	16,200 J		27.6	23.8	137.
TLS-10 8-10	'8-10	08/21/01	4,560	1.50 UJ	5.20	91.0	0.760 U	0.760 U	10,600 J		14.0	7.60 U	35.0
TLS-1-0-0.5	'0-0.5	09/05/01	11,700	1.00 UJ	2.80	97.3	6.60 J	0.530 U	18,000		61.1 J	33.3	519.
TLS-11-0-0.5	'0-0.5	09/07/01	17,800	1.10 UJ	5.00	199.	2.80 J	0.560 U	10,700		116.	26.2	263.
TLS-2-0-0.5	'0-0.5	09/07/01	12,100	1.00 UJ	2.70	93.8	0.580 J	0.530 U	15,500		30.9	18.3	156.
TLS-2-6-8	'6-8	09/07/01	1,360	1.70 UJ	8.00	68.0	0.830 UJ	0.830 U	1,440		8.30	8.30 U	27.4
TLS-3 0-.5	'0-0.5	08/21/01	15,900	5.40 UJ	4.00	451.	0.540 U	1.40	19,100 J		56.5	24.4	253.
TLS-4-0-0.5	'0-0.5	09/07/01	18,200	1.00 UJ	7.80	769.	2.80 J	4.30	18,500		101.	40.9	954.
TLS-4-8-10	'8-10	09/07/01	27,700	1.60 UJ	5.20	337.	2.60 J	0.790 U	3,700		55.7	23.1	150.
TLS-5 0-0.5	'0-0.5	08/21/01	20,000 J	2.20 UJ	13.4	1,160	3.50	14.6	16,900		168.	38.0	1,850
TLS-5-8-10	'8-10	09/26/01	1,220 J	1.50 UJ	1.50	82.8	0.760 U	0.760 U	930. J		23.1	7.60 U	476.
TLS-6 0-.5	'0-0.5	08/21/01	14,700	16.4 J	23.1	249.	0.760	42.1	16,600 J		169.	22.8	956.
TLS-6-3-5	'3-5	09/26/01	452. J	2.40 J	1.20 U	49.6	0.600 U	0.600 U	600. U		6.50	6.00 U	33.2
TLS-7 0-.5	'0-0.5	08/21/01	14,900	1.20 UJ	26.0	3,600	0.640	3.40	26,000 J		107.	27.9	316.
TLS-8-0-0.5	'0-0.5	09/07/01	10,500	1.10 UJ	6.90	221.	1.90 J	1.00	11,700		67.5	24.6	355.
TLS-8-6-8	'6-8	09/07/01	13,000	1.30 UJ	5.20	234.	0.640 UJ	0.640 U	1,480		21.1	7.90	28.7
TLS-9 0-.5	'0-0.5	08/21/01	6,100	1.10 UJ	1.70	335.	0.550 U	0.580	13,300 J		15.0	8.40	125.
TP-105	'0-0	06/08/07	23,300	44.2	59.5	600.	28.6	13.0 U	32,300	1.00 U	74.2	765.	14,200
TP-105A	'0-0	06/08/07	9,590	202.	509.	501.	1.80	4.60	4,810	1.00 U	140.	151.	5,120
TP-106-A	'0-0	06/08/07	25,000	42.9	54.0	744.	43.9	13.0 U	37,300	1.00 U	53.4	902.	10,900
TP-106-B	'0-0	06/08/07	13,300	221.	597.	1,610	3.80	5.50	6,580	1.00 U	148.	268.	5,470
WWT-1-0-0.5	'0-0.5	07/19/01	10,500 J	1.20 UJ	5.80 J	362.	0.580 UJ	0.580 U	17,300		24.7	9.40	84.3 J
WWT-101-12-14	'12-14	10/27/06											

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
WWT-101-15-17	'15-17	11/06/06	17,100	2.40 UJ	5.80	126. J	0.950	0.600 U	1,130 J	1.30 U	33.2 J	10.4 J	15.0
WWT-101-21-23	'21-23	11/06/06	12,300	2.40 UJ	3.30	74.7	0.590 U	0.890	18,600 J	1.20 U	22.3 J	10.0 J	16.6
WWT-1-12-14	'12-14	08/23/01	10,900	2.20 J	35.9	682. J	0.650 U	4.60	46,600		54.4	11.1	348.
WWT-2-0-0.5	'0-0.5	08/23/01	11,800	1.00 UJ	6.80	542. J	0.520 U	0.620	9,120		26.0	12.9	102.
WWT-2-12-14	'12-14	08/23/01	8,500	2.80 J	81.7	951. J	0.640 U	1.30	29,400		43.9	6.40 U	128.
WWT-3-0-0.5	'0-0.5	08/23/01	17,200	5.40 UJ	3.80	3,280 J	0.540 U	0.540 U	18,900		34.5	21.8	123.
WWT-3-12-14	'12-14	08/23/01	14,500	1.80 J	40.0	1,860 J	0.590 U	6.40	11,800		88.4	14.3	252.

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS						800.		5,900				65.0
12K-B1-0.5-2	'0.5-2	09/06/01			28,400	19.9 J	6,570	402. J				1.70
12K-B1-0-0.5	'0-0.5	09/06/01			36,500	115. J	8,080	3,880 J				331.
12K-B2-0.5-2	'0.5-2	09/06/01			31,500	17.2 J	7,160	442. J				0.520
12K-B2-0-0.5	'0-0.5	09/06/01			33,500	99.6 J	6,260	611. J				104.
150K-1-0.5-2	'0.5-2	09/10/01			24,800	35.0	4,410 J	295.				17.2
150K-1-0-0.5	'0-0.5	09/10/01			147,000	3,920	6,940 J	1,420				145.
230-B1-0.5	'0-0.5	10/02/01			18,000	42.6 J	2,680	148.				264.
230-B10-0-0.5	'0-0.5	08/30/01			108,000	205.	25,500	547.				3,380
230-B10-1.5-2	'1.5-2	08/30/01			18,300	39.3	3,950	336.				161.
230-B-101-0-1	'0-1	12/04/06	0.179	0.000000500 U					1.25			2,600
230-B11-0-0.5	'0-0.5	08/30/01			27,800	44.6	12,500	526.				196.
230-B11-1.5-2	'1.5-2	08/30/01			20,200	51.3	4,900	446.				17.6
230-B1-4-6	'4-6	10/02/01			30,200	69.5 J	4,950	409.				134.
230-B2-0-0.5	'0-0.5	08/30/01			25,100	109.	4,920	408.				97.2
230-B2-1.5-2	'1.5-2	08/30/01			11,100	9.20	1,240	208.				0.590
230-B3-0-0.5	'0-0.5	08/30/01			16,100	195.	5,220	257.				28.5
230-B3-1.5-2	'1.5-2	08/30/01			20,100	73.9	3,440	388.				110.
230-B4-0-0.5	'0-0.5	08/30/01			58,800	170.	5,880	1,190				230.
230-B4-1.5-2	'1.5-2	08/30/01			22,500	20.9	3,830	347.				0.840
230-B5-0-0.5	'0-0.5	09/13/01			32,200	146.	7,950 J	397.				
230-B5-1.5-2	'1.5-2	09/13/01			12,700	11.4	1,090 J	85.4				70.1
230-B6 0-0.5	'0-0.5	08/22/01			31,700	67.0	8,750	440.				310.
230-B6 1.5-2	'1.5-2	08/22/01			22,200	29.8	4,110	272.				1.20
230-B7 0-0.5	'0-0.5	08/22/01			41,800	115.	10,400	569.				133.
230-B7 1.5-2	'1.5-2	08/22/01			31,900	37.4	7,450	778.				3.50
230-B8 1.5-2	'1.5-2	08/22/01			38,300	82.8	3,370	1,290				63.6
230-B9 0-0.5	'0-0.5	08/22/01			46,700	41.2	15,800	483.				41.5
230-B9 0-0.5	'0-0.5	08/22/01			29,500	71.1	13,300	395.				42.7
230-B9 1.5-2	'1.5-2	08/22/01			24,200	3.80	540. U	63.7				1.30
231-101-0-1	'0-1	12/06/06										84.5 J
231-102-0-1	'0-1	12/04/06	1.02	0.000656					1.76			609.
231-B1-0-0.5	'0-0.5	10/05/01			11,300	15.7	570. U	42.8				823.
231-B10-0-0.5	'0-0.5	09/17/01			51,800	52.9	9,200	523. J				134.
231-B11-0-0.5	'0-0.5	09/19/01			27,200	81.1	4,190 J	431.				120.

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	09/19/01			43,100	50.6	4,750 J	424.				93.5
231-B12-0-0.5	'0-0.5	09/17/01			38,700	91.4	13,000	564. J				130.
231-B13-0-0.5	'0-0.5	09/19/01			47,100	278.	5,390 J	288.				4,300
231-B13-8-10	'9-10	09/27/01			25,600 J	14.1 J	4,990 J	302.				
231-B14-0-0.5	'0-0.5	09/19/01			29,600	53.5	6,010 J	451.				316.
231-B2-0.5-2	'0.5-2	08/22/01			29,300	45.7	5,720	467.				299.
231-B2-0-0.5	'0-0.5	08/22/01			40,900	49.2	8,670	382.				601.
231-B3-0-0.5	'0-0.5	08/22/01			59,600	106.	3,850	342.				3,710
231-B4-0-0.5	'0-0.5	08/30/01			30,000	10.5	12,900	489.				741.
231-B4-6-8	'6-8	09/27/01			13,200 J	48.6 J	2,180 J	218.				
231-B5-0.5-2	'0.5-2	09/19/01			18,800	15.3	1,940 J	199.				12.7
231-B6-0-0.5	'0-0.5	09/27/01			23,200 J	53.7 J	5,740 J	462.				
231-B6-4-6	'4-6	09/27/01			299,000 J	226. J	8,540 J	1,930				
231-B7-0-0.5	'0-0.5	09/13/01			23,000	46.5	5,660 J	353.				152.
231-B8-0-0.5	'0-0.5	09/27/01			96,900 J	219. J	2,250 J	616. J				
231-B8-8-10	'8-10	09/27/01			41,300 J	453. J	1,000 J	274.				
231-B9-0.5-2	'0.5-2	09/27/01			29,800 J	69.8	5,560 J	236.				87.3
231-B9-0-0.5	'0-0.5	09/27/01			59,200 J	103. J	8,080 J	555.				143.
240-1-0-0.5	'0-0.5	09/26/01			51,000	125.	4,380	418.				535.
240-1-8-10	'8-10	10/01/01			21,100	13.7	3,190	205.				3.80
5K-B1-0-0.5	'0-0.5	10/01/01			26,700	17.6	7,150	309.				19.7
5K-B2-0-0.5	'0-0.5	08/31/01			59,400	132.	11,900 J	556.				168.
5K-B2-8-10	'8-10	08/31/01			22,500	11.1	5,290 J	384.				2.30
5K-B3-0-0.5	'0-0.5	09/26/01			26,100	80.5	3,360	383.				
5K-B4-0-0.5	'0-0.5	10/01/01			24,600	14.1	5,360	203.				
5K-B4-4-6	'4-6	10/01/01			37,800	213.	2,840	252.				69.0
5K-B5-0-0.5	'0-0.5	08/31/01			43,900	71.8	4,590 J	543.				
5K-B5-4-6	'4-6	09/26/01			21,700	41.7	10,500 J	400.				212.
AB-1-0-0.5	'0-0.5	09/04/01			28,000	72.7 J	5,560	372.				775.
AB-2-0.5-2	'0.5-2	09/04/01			26,100	70.5 J	9,120	224.				3,860
AB-2-0-0.5	'0-0.5	09/04/01			26,600	59.8 J	3,000	208.				544.
ADN-1-0-0.5	'0-0.5	09/05/01			16,100	109. J	3,060	516.				262.
ADN-1-8-10	'8-10	09/05/01			20,700	477. J	3,770	241.				15.5
ADN-2-0-0.5	'0-0.5	09/05/01			37,500	77.5 J	5,700	1,130				62.4
ADN-2-10-11	'10-11	09/27/01			18,100 J	12.5 J	2,640 J	173.				0.320

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADS-1-0-.5	'0-0.5	07/17/01			60,200	351. J	4,160	329.				15.8
ADS-10-0-0.5	'0-2	07/18/01			147,000 J	8,920 J	6,510	1,340				5.40
ADS-101-0-1	'0-1	12/05/06			18,600	49.5	1,840 J	217.				6.00 J
ADS-101-1-3	'1-3	12/05/06			19,000	13.6	3,000 J	261.				0.0350 UJ
ADS-102-0-1.5	'0-2	12/05/06			16,600	23.9	3,030 J	261.				3.80 J
ADS-102-7-8	'4-8	12/05/06			19,200	14.9	2,750 J	345.				0.0360 UJ
ADS-10-4-6	'4-6	07/18/01			24,500 J	198. J	1,250	93.1				6.70
ADS-11-0-0.5	'0-2	07/18/01			168,000 J	9,790 J	6,270	1,620				8.60
ADS-12-0.5-2	'0.5-2	07/18/01			21,400 J	71.9 J	2,520	480.				8.80
ADS-12-0-0.5	'0-0.5	07/18/01			22,800 J	60.6 J	5,230	354.				46.1
ADS-2-0-0.5	'0-0.5	07/18/01			27,600 J	18.5 J	12,500	418.				2.90
ADS-2-4-6	'4-6	07/18/01			22,600 J	10.8 J	3,970	257.				0.110
ADS-3-0-0.5	'0-0.5	07/18/01			26,100 J	74.2 J	10,500	338.				9.80
ADS-4-0-0.5	'0-2	07/18/01			31,700 J	106. J	12,600	455.				86.5
ADS-4-12-14	'12-14	07/18/01			12,300 J	79.3 J	552.	99.0				6.40
ADS-5-0-0.5	'0-0.5	07/18/01			34,200 J	228.	10,800	440.				31.0
ADS-5-4-6	'4-6	09/27/01			7,720 J	6.20 J	540. U	33.3				1.30
ADS-6-0.5-2	'0.5-2	07/18/01			25,400 J	98.4	6,090	318.				6,420
ADS-6-0-0.5	'0-0.5	07/18/01			41,200 J	66.3	15,700	673.				772.
ADS-7-0-.5	'0-0.5	07/17/01			29,000	276. J	6,750	348.				90.8
ADS-8-0-0.5	'0-0.5	07/18/01			36,400 J	349. J	7,730	337.				175.
ADS-8-4-6	'4-6	07/18/01			30,400 J	205. J	4,630	201.				121.
ADS-9-0-0.5	'0-0.5	07/18/01			28,600 J	141. J	1,590	126.				68.0
BLIND DUP	'0-0	08/21/01			29,900 J	168.		210.				1.20
BSL-10-0-1	'0-1	09/21/01			18,000 J	151.	9,130 J	703.				2,300
BSL-1-0-1	'0-1	09/20/01			11,400	83.5	1,660	58.1				364.
BSL-101-0-1	'0-1	12/06/06										1,100 J
BSL-11-0-1	'0-1	09/26/01			10,800	85.7	3,000	50.3				1,370
BSL-12-0-1	'0-1	09/26/01			19,400	44.6	1,640	221.				177.
BSL-1-4-6	'4-6	09/20/01			9,880	23.3	1,150	117.				103.
BSL-2-0-1	'0-1	09/21/01			23,300 J	85.8	1,770 J	196.				141.
BSL-3-0-0.5	'0-0.5	09/20/01			8,400	9.20	540. U	51.5				20.6
BSL-4-0-1	'0-0.5	09/21/01			5,710 J	27.8	789. J	67.4				61.2
BSL-4-4-6	'4-6	09/21/01			36,500 J	118.	11,600 J	238.				292.
BSL-5-0-.5	'0-0.5	09/21/01			11,000 J	42.8	1,410 J	81.4				82.6

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-6-0-1	'0-1	09/26/01			19,600	119.	1,690	195.				211.
BSL-6-1-2	'1-2	09/26/01			23,400 J	1,290 J	2,150	82.8				414.
BSL-7-0-.5	'0-0.5	09/21/01			8,850 J	20.8	620. UJ	59.6				71.6
BSL-8-0-1	'0-1	09/26/01			14,900	590.	1,690	75.4				423.
BSL-9-.5-2	'0.5-2	09/21/01			38,500 J	126.	2,410 J	354.				481.
BSL-9-0-.5	'0-0.5	09/21/01			5,650 J	15.6	610. UJ	38.7				66.9
BT-B1-0-0.5	'0-0.5	09/18/01			21,800	27.2	4,000	280. J				83.1
BT-B2-0.5-2	'0.5-2	09/18/01			30,900	22.2	6,470	388. J				65.2
BT-B2-0-0.5	'0-0.5	09/18/01			35,600	62.7	4,880	384. J				232.
BT-B3-0-0.5	'0-0.5	09/18/01			21,000	39.3	3,860	307. J				577.
BT-B4-0.5-2	'0.5-2	08/30/01			28,400	13.0	6,500	488.				16.1
BT-B4-0-0.5	'0-0.5	08/30/01			21,000	13.7	7,750	230.				76.0
BT-B5-0-.5	'0-0.5	10/02/01			30,900	97.4 J	4,760	345.				535.
BT-B6-0.5-2	'0.5-2	09/17/01			33,300	157.	10,600	224. J				473.
BT-B6-0-0.5	'0-0.5	09/17/01			279,000	465.	7,450	1,620 J				378.
CF-1-0-0.5	'0-0.5	08/31/01			8,950	107.	1,570 J	218.				55.5
CF-1-2-4	'2-4	08/31/01			20,000	282. J	3,660 J	264.				0.130
CF-2-0-0.5	'0-0.5	08/28/01			13,700 J	124.	1,850	146.				592.
CF-3-0.5-2	'0.5-2	08/28/01			43,900 J	278.	3,770	265.				265.
CF-3-0-0.5	'0-0.5	08/28/01			23,400 J	475.	4,860	132.				24.0
CF-4-0-0.5	'0-0.5	08/28/01			20,200 J	395.	3,080	245.				233.
CF-5-0-0.5	'0-0.5	08/28/01			3,200 J	33.0	540. U	15.9				8.90
CF-5-4-6	'4-6	08/28/01			17,600 J	93.8	924.	72.3				63.6
CF-6-0-0.5	'0-0.5	08/28/01			13,000 J	102.	1,060	84.0				39.9
CF-7-0-0.5	'0-0.5	08/28/01			14,200 J	199.	1,440	143.				204.
CF-7-4-6	'4-6	08/28/01			27,300 J	310.	3,840	365.				375.
CF-8-0-0.5	'0-0.5	08/28/01			12,100 J	142.	1,940	110.				157.
CF-9-0.5-2	'0.5-2	08/31/01			23,600	89.6	8,700 J	384.				78.3
CF-9-0-0.5	'0-0.5	08/31/01			9,310	87.4	945. J	59.4				61.1
DC-B12-0-0.5	'0-0.5	10/03/01			37,600	48.0 J	6,330	248.				239.
DC-B12-2-4	'2-4	10/03/01			33,600	110. J	10,400	409.				130.
DC-SS1-0-0.5	'0-0.5	09/18/01			374,000	269.	2,820	2,100 J				916.
DC-SS11-0-0.5	'0-0.5	09/17/01			21,500	76.2	23,200	270. J				84.2
DC-SS13-0-0.5	'0-0.5	09/17/01			41,600	25.1	7,480	351. J				261.
DC-SS15-0-0.5	'0-0.5	09/17/01			62,700	134.	18,000	473. J				2,230

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DC-SS17-0-0.5	'0-0.5	09/17/01			35,900	82.7	11,600	314. J				268.
DC-SS2-0-0.5	'0-0.5	09/17/01			75,200	172.	6,740	470. J				1,770
DC-SS3-0-0.5	'0-0.5	09/17/01			95,700	216.	3,350	602. J				1,120
DC-SS6-0-0.5	'0-0.5	09/17/01			40,100	157.	13,600	439. J				807.
DC-SS7-0-0.5	'0-0.5	09/17/01			63,600	110.	5,950	386. J				526.
DC-SS9-0-0.5	'0-0.5	09/17/01			32,700	56.0	10,500	418. J				486.
DSP-1-0-0.5	'0-0.5	10/03/01			48,500	227. J	7,320	1,020				236.
DSP-101-0-1	'0-1	12/04/06	0.000260	0.000000500 U					0.00000500 U			0.520
DSP-1-4-6	'4-6	11/19/01			36,900	16.3	6,510					
DSP-2-0-0.5	'0-0.5	09/04/01			35,100	68.0 J	14,600	563.				1,540
DSP-3-0-0.5	'0-0.5	09/04/01			29,900	90.8 J	10,700	520.				2.00
DSP-3-2-4	'2-4	09/04/01			30,200	16.8 J	6,340	467.				0.0630
DSP-4-0-0.5	'0-0.5	09/04/01			44,800	140. J	5,850	3,800				26.5
DSP-4-4-6	'4-6	09/26/01			56,400 J	44.3 J	3,680 J	747.				20.4
DUP-01-010824	'0-0.5	08/24/01			8,700	33.0	740.	38.4 J				13.4
DUP-01-010831	'2-4	08/31/01			15,500	83.8 J	2,700 J	204.				2.70
DUP-01-010904	'0-0.5	09/04/01			34,300	61.2 J	13,700	604.				13.5
DUP-01-010905	'8-10	09/05/01			20,900	110. J	2,630	166.				14.0
DUP-01-010906	'0-8	09/06/01			17,300	252. J	1,040	119. J				114.
DUP-01-010913	'0-0.5	09/13/01			44,400	120.	6,660 J	1,330				87.8
DUP-01-010917	'0-0.5	09/17/01			30,400	320.	5,070	296. J				558.
DUP-01-010926	'1-2	09/26/01			5,580 J	36.7 J	3,400	55.0				193.
DUP-01-010927	'4-6	09/27/01			8,580 J	6.00 J	890. J	53.8				1.00
DUP-01-021001	'0-0	10/02/01			130,000	119. J	5,700	837.				1,110
DUP-01-08 2201	'1.5-2	08/22/01			29,000	25.7	6,490	3,680				3.90
DUP-01-121001	'0-0	10/12/01			39,200	104.		268. J				2.40
DUP-01-170402	'0-0	04/17/02			15,700	27.4	2,360	276.				17.2
DUP-02-010913	'0-0.5	09/13/01			21,200	42.1	4,330 J	222.				309.
DUP-02-010921	'0-1	09/21/01			11,800 J	96.4	11,000 J	1,160				2,190
DUP-02-010926	'4-6	09/26/01			26,800	46.0	4,100 J	314.				198.
DUP060807	'0-0	06/08/07			253,000	9,180	4,640	1,150				1.60
DUP-1-010828	'0-0.5	08/28/01			15,700 J	85.3	1,120	90.3				41.9
DUP-1-010921	'0-0.5	09/21/01			13,700 J	23.7	762. J	76.9				59.4
DUP110606	'15-17	11/06/06			21,100 J	9.10	4,340	138. J				0.500
DUP112006	'16-18	11/20/06			29,500	76.9	6,170	314. J				78.4

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP112106	'10-12	11/21/06			36,200	16.4	8,270	372.				9.40 J
DUP-120506	'0-4	12/05/06			146,000	7,490	7,870 J	1,160				20.3 J
DUP-120606	'0-4	12/06/06			165,000	15,300	9,750 J	2,150				0.430 J
DUPE071801	'0-0.5	07/18/01			30,200 J	39.5 J	14,500	442.				4.70
EC-1	'0-1	08/21/01			7,260 J	25.4		101.				1.20
EC-2	'0-1	08/21/01			14,800 J	343.		233.				1.80
EC-3	'0-1	08/21/01			17,400 J	67.9		157.				1.10
EC-4	'0-1	08/21/01			30,600 J	123.		231.				0.670
EC-5	'0-1	08/21/01			13,900 J	18.4		203.				0.380
EC-6	'0-1	08/21/01			8,920 J	45.6		69.2				0.670
EC-7	'0-1	08/21/01			21,100 J	147.		399.				2.70
EC-8	'0-1	08/21/01			20,000 J	84.9		268.				0.920
EC-9	'0-1	08/21/01			27,000 J	172.		483.				0.930
ESR-1-0-1	'0-0.5	09/04/01			11,900	12.0 J	716.	31.3				37.8
ESR-1-4-6	'4-6	09/04/01			5,780	20.2 J	2,220	35.3				131.
HB-101A	'17-17	03/05/07			15,300	7.40	3,170 J	122.				45.3
HB-102A	'0-0	03/13/07			31,200	14.3	6,630 J	291.				0.560
HB-102B	'0-0	03/14/07			18,100 J	9.50	6,090 J	457. J				1.70
HB-102C	'0-0	03/14/07			32,600 J	15.3	8,110 J	466. J				0.120
H-B-103A	'17-17	02/20/07			22,400	11.3	6,190 J	555.				0.360
H-B-104A	'17-17	02/23/07			19,400	10.7	3,390	171.				0.450
H-B-104B	'17-17	02/23/07			13,100	8.00	2,110	81.7				46.0
H-B-104C	'17-17	02/23/07			11,600	6.90	2,060	94.6				1.40
H-B-104D	'17-17	02/27/07			11,700	6.40	1,940	62.6				0.160
H-B-104E	'17-17	02/27/07			8,290	3.60	909.	60.9				0.630
H-B-105C	'17-17	02/08/07			24,200	12.5	7,310 J	1,020				0.110 J
H-B-105D	'17-17	02/08/07			23,700	9.40	5,420 J	262.				28.5 J
H-B-105E	'0-0	02/08/07			18,100	6.10	2,000 J	53.1				0.310 J
HB-1A	'6.75-6.75	04/18/02			29,600	349.	5,180	462.				346.
HB-3A	'5.25-5.25	04/17/02			19,000	22.0	2,210	345.				16.4
HB-3B	'4.5-4.5	04/17/02			21,100	8.20	6,090	519.				
HB-3C	'4.5-4.5	04/18/02			19,600	8.00	5,950	517.				
HB-3D	'4.5-4.5	04/18/02			19,600	8.00	6,790	486.				
HB-4A	'5.33-5.33	04/19/02			11,400	5.40	1,210	94.7				2.30
HB-5A	'3-3	04/22/02			26,800	24.7	6,200	676.				34.5

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HB-7A	'5-5	04/19/02			17,100	55.3	2,400	433.				145.
HB-8A	'3-3	04/23/02			18,700	105.	4,890	2,050				4.60
HB-8B	'4.83-4.83	04/23/02			19,600	15.5	2,670	270.				471.
HB-8C	'5.5-5.5	04/23/02			17,400	37.2	4,010	258.				45.6
HB-9A	'4.75-4.75	04/24/02			23,800	45.9	3,420	356.				18.4
HF-B1-0-0.5	'0-0.5	09/10/01			29,500	276.	5,120 J	324.				13.1
HF-B1-8-10	'8-10	09/10/01			30,700	56.5	3,460 J	292.				13.4
HF-B2-0-0.5	'0-0.5	09/04/01			31,400	77.0 J	11,900	466.				14.5
HF-B2-4-6	'4-6	09/04/01			20,000	145. J	6,500	273.				2.30
HF-B3-0-.5	'0-0.5	10/02/01			30,400	37.3 J	13,700	678.				199.
HF-B3-8-10	'8-10	10/02/01			19,200	13.9 J	3,260	198.				38.5
IB-1-0-2	'0-2	04/08/02			16,600	126.	2,410 J	180.				190. J
IB-1-4-6	'4-6	04/08/02			12,700	110.	1,650 J	174.				229. J
IB-2-12-14	'12-14	04/08/02			19,700	72.1	3,720 J	481.				14.4 J
IB-2-4-6	'4-6	04/08/02			14,100	27.0	3,150 J	104.				32.8 J
IB-3-4-6	'4-6	04/08/02			17,700	19.5	5,790 J	210.				832. J
IB-3-8-10	'8-10	04/08/02			38,500	59.6	5,160 J	308.				103. J
LB-101-0-1	'0-1	12/06/06			32,000	12.9	692.	71.8				0.0750 J
LB-101-1-3	'1-3	12/06/06			240,000	11,200	8,190 J	1,820				0.0320 U
LB-102-0-1	'0-3	12/06/06			30,000	11.0	580. U	44.5				0.0330 U
LB-102-1-3	'3-7	12/06/06			140,000	8,970	4,990 J	1,530				727. J
LB-103-0-1	'0-1	12/06/06			85,500	3,990	3,310 J	693.				0.0820 J
LB-103-5-7	'5-7	12/06/06			126,000	5,290	4,650 J	876.				1.80 J
LCP-231-SS112706	'0-0	11/27/06			257,000	10.0 U	510. U	1,330				5.80
LHP-101-0-1	'0-1	12/04/06			29,400	195.	3,880 J	1,190 J				6.50
LHP-101-5-8	'4-8	12/04/06			29,400	37.8	2,180 J	274. J				1.10
LHP-102-0-1	'0-1	12/05/06			34,800	602.	6,300 J	984.				7.30 J
LHP-102-7-9	'7-9	12/05/06			14,100	253.	822. J	74.1				3.70 J
LHP-103-0-1	'0-1	12/05/06			12,200	87.5	5,970 J	170.				1.10 J
LHP-103-1-3	'1-3	12/05/06			18,600	132.	2,260 J	185.				0.0410 J
LHP-104-0-1	'0-1	12/05/06			7,950	163.	728. J	52.1				0.690 J
LHP-104-7-9	'4-8	12/05/06			217,000	11,300	6,570 J	845.				14.2 J
LHP-105-0-1	'0-1	12/05/06			204,000	11,700	9,110 J	1,530				14.2 J
LHP-105-1-3	'1-3	12/05/06			196,000	12,200	8,410 J	1,490				1.40 J

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-106-0-1	'0-1	12/04/06			129,000	5,670	6,510 J	754. J				2.80
LHP-106-1-3	'1-3	12/04/06			148,000	8,300	6,770 J	1,310 J				1.20
LHP-107-0-1	'0-1	12/05/06			122,000	10,600	6,210 J	1,790				0.400 J
LHP-107-5-7	'4-8	12/05/06			247,000	9,090	7,820 J	937.				2.70 J
LHP-108-0-1	'0-1	12/06/06			12,200	53.7	5,120 J	160.				1.60 J
LHP-108-3-7	'3-7	12/06/06			35,400	19.5	7,930 J	515.				0.340 J
LHP-109-0-1	'0-1	12/06/06			22,600	195.	15,500 J	567.				8.10 J
LHP-109-7-9	'7-9	12/06/06			26,100	27.5	5,180 J	271.				2.70 J
LHP-110-0-1	'0-1	12/04/06			28,500	207.	9,360 J	414. J				16.5
LHP-111-0-1	'0-1	12/04/06			18,800	23.7	3,060 J	295. J				5.80
LHP-112-0-1	'0-1	12/04/06			16,700	15.6	2,660 J	158. J				0.770
LHP-113-0-1	'0-1	12/04/06			21,900	21.3	6,780 J	394. J				4.70
LHP-114-0-1	'0-1	12/04/06			23,800	81.0	5,160 J	721. J				54.2
LHP-115-0-1	'0-1	12/04/06			24,300	3.20	8,530 J	441. J				2.30
LHP-116-0-1	'0-1	12/04/06			19,000	61.9	3,470 J	248. J				3.90
LHP-117-0-1	'0-1	12/04/06			17,800	37.9	2,600 J	162. J				4.20
LHP-118-0-1	'0-1	12/04/06			45,900	1,590	2,230 J	386. J				23.0
LHP-119-0-1	'0-1	12/04/06			26,500	159.	2,390 J	981. J				0.180
LHP-120-0-1	'0-1	12/04/06			30,500	119.	2,600 J	2,630 J				1.90
LHP-121-0-1	'0-1	12/06/06			29,400	110.	7,320 J	524.				4.20 J
LHP-122-0-1	'0-1	12/06/06			36,400	76.9	9,910 J	410.				7.40 J
LHP-123-0-1	'0-1	12/04/06			31,600	353.	7,380 J	681. J				2.90
LHP-124-.5-2	'0.5-2	10/27/06			13,800	60.2 J	6,060 J	180. J				2.10
LHP-124-10-12	'10-12	10/31/06			32,900	11.0	6,580	498. J				0.0650
LHP-124-2-4	'2-4	10/27/06			31,000	21.6 J	7,680 J	2,010 J				4.70
LHP-124-28-30	'28-30	10/31/06			22,600	10.1	7,770	548. J				0.0310 U
LHP-125-.5-2	'0.5-2	10/27/06			28,600	105. J	5,260 J	436. J				0.190 J
LHP-125-10.5-12	'10.5-12	11/01/06			15,100	8.70	2,950	180. J				0.0730
LHP-125-12-14	'12-14	11/01/06			29,500	11.1	6,370	205. J				0.0240 U
LHP-125-4-6	'4-6	10/27/06			27,600	15.4 J	5,700 J	325. J				58.9
LHP-126-10.5-12	'10.5-12	11/01/06			19,300 J	24.1 J	6,910 J	52.0 J				2.50 J
LHP-126-14-16	'14-16	11/01/06			30,900	11.6	6,820	372. J				0.0680
LHP-126-2-4	'2-4	10/26/06			152,000	6,860	6,150 J	1,060				12.5
LHP-126-8-10	'9-10	10/26/06			132,000	3,740	4,620 J	492.				5.70

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-127-0-1	'0-1	12/06/06			161,000	9,660	7,690 J	1,890				82.4 J
LHP-127-3-5	'3-5	12/06/06			232,000	7,900	7,670 J	977.				1.00 J
LHP-128-0-1	'0-4	12/06/06			174,000	15,600	9,660 J	2,110				0.410 J
LHP-128-7-8	'17-17	12/06/06			18,400	115.	680. U	28.8				22.0 J
LP-1-0-0.5	'0-0.5	08/27/01			4,460	9.00	540. U	17.4				11.0
LP-10-0.5-2	'0.5-2	08/27/01			15,800	144.	6,020	200.				1,460
LP-10-0-0.5	'0-0.5	08/27/01			31,600	196.	5,700	366.				1,820
LP-101-11-13	'11-13	11/02/06			38,100	12.8	8,290	392.				0.0390 U
LP-101-14-16	'14-16	11/02/06			17,700	8.40	4,960	162.				0.0340 U
LP-101-26-28	'26-28	11/02/06			25,800	11.4	8,170	581.				0.0260 U
LP-101-50-52	'50-52	11/02/06			22,200	8.20	5,440	445.				0.0240 U
LP-101-8-10	'8-10	10/27/06										15.1
LP-102-0-1	'0-1	12/04/06	1.41	0.0000350					0.525			787.
LP-11-0-0.5	'0-0.5	08/27/01			24,800	350.	6,010	299.				852.
LP-12-0-0.5	'0-0.5	08/27/01			10,600	45.3	2,620	130.				331.
LP-12-4-6	'4-6	08/27/01			6,490	9.10	560. U	42.2				21.3
LP-13-0-0.5	'0-0.5	08/24/01			23,000	112.	6,660	207. J				1,200
LP-14-0.5-2	'0.5-2	08/24/01			30,400	76.7	7,740	332.				314.
LP-14-0-0.5	'0-0.5	08/24/01			18,500	71.7	2,770	166. J				79.8
LP-15-0-0.5	'0-0.5	08/24/01			20,100	47.3	5,820 J	212.				297.
LP-16-0.5-2	'0.5-2	08/27/01			14,000	22.0	3,090	254.				143.
LP-16-0-0.5	'0-0.5	08/27/01			20,900	128.	5,840	213.				733.
LP-2-0.5-2	'0.5-2	08/28/01			25,400 J	130.	5,570	300.				1,600
LP-2-0-0.5	'0-0.5	08/28/01			15,900 J	81.8	2,120	111.				304.
LP-3-0-0.5	'0-0.5	08/27/01			22,800	39.5	9,750	338.				246.
LP-4 .5-2	'0.5-2	08/21/01			24,200	72.8	6,870	324.				495.
LP-4 0-.5	'0-0.5	08/21/01			22,100	45.8	4,610	205.				73.8
LP-5-0-0.5	'0-0.5	08/27/01			26,100	288.	5,630	316.				732.
LP-6-0-0.5	'0-0.5	08/27/01			35,300	61.4	14,400	521.				378.
LP-6-4-6	'4-6	08/27/01			8,660 J	8.00	550. U	62.3				36.2
LP-7-0-0.5	'0-0.5	08/24/01			47,300	149.	6,900	385. J				1,350
LP-8-0-0.5	'0-0.5	08/24/01			10,300	33.1	1,020	48.6 J				22.0
LP-8-10-12	'10-12	08/24/01			2,030	22.1	850. U	13.1 J				2.20
LP-9-0-0.5	'0-0.5	08/24/01			18,700	49.2	5,630	256. J				48.6

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-11D-10-12	'10-12	11/09/06										46.6
MW-11D-12-14	'12-14	12/14/06			19,000 J	180.	4,870 J	176. J				3.50
MW-11D-14-16	'14-16	12/14/06			6,490 J	5.00	1,320 J	103. J				0.0720 U
MW-11D-16-18	'16-18	12/14/06			21,200 J	8.40	3,830 J	149. J				0.480
MW-11D-6-8	'6-8	11/09/06										57.1
MW-14D-13-15	'13-15	11/14/06			22,900 J	12.5	3,900	116. J				1.00
MW-14D-17-19	'17-19	11/14/06			23,200 J	9.40	7,110 J	780. J				0.0360 U
MW-16D-13-15	'13-15	11/17/06			9,580	7.10	1,960	45.1 J				0.0350 U
MW-16D-17-19	'17-19	11/20/06			17,300	6.70	4,040	356. J				0.110
MW-17D-15-17	'15-17	11/10/06			20,300 J	20.2	3,200 J	457. J				1.60
MW-17D-17-19	'17-19	11/10/06			14,900 J	6.40	3,230 J	209. J				0.0960
MW-18D-13-15	'13-15	11/13/06			20,300 J	6.70	2,130	133. J				0.0400 U
MW-18D-17-19	'17-19	11/13/06			27,900 J	12.7	8,080	450. J				0.0340 U
MW-20D-12-14	'12-14	11/09/06			18,800 J	10.1	2,250	270. J				0.0630 J
MW-20D-32-34	'32-32.9	11/10/06			27,100 J	9.90	10,300 J	698. J				0.0350 U
MW-20D-36-38	'36-38	11/10/06			27,900 J	8.90	7,570 J	423. J				0.0370 U
MW-21D-13-15	'13-13.7	11/16/06			14,800	8.70	2,780	95.6 J				0.0390 U
MW-21D-15-17	'15-17	11/16/06			16,600	6.40	3,340	113. J				0.0370 U
MW-23D-15-17	'15-16	11/15/06			22,700 J	15.7	3,980 J	278. J				8.30
MW-23D-37-39	'37-37.9	11/15/06			26,500	10.3	8,730	570. J				0.0350 U
MW-25D-10-12	'10-12	11/21/06			35,800	17.6	8,830	421.				2.20 J
MW-25D-33-35	'33-35	12/18/06			21,300	9.90	7,250 J	489. J				0.0450
MW-26S-8-10	'8-10	10/26/06			24,900	30.9	4,610 J	238.				55.1
MW-6D-0-2	'0-2	11/08/06			12,200 J	19.3 J	2,180 J	82.5 J				203.
MW-6D-12-14	'12-14	11/08/06			15,600 J	111. J	4,210 J	295. J				171.
MW-6D-16-18	'16-18	11/20/06			28,900	80.8	5,160	272. J				90.1
MW-6D-30-32	'30-32	11/21/06			28,200	12.3	9,010	760.				0.610
PCA-1-0-.5	'0-2	07/17/01			25,300	60.7 J	13,100	448.				5.70
PCA-1-4-6	'4-6	07/17/01			44,700	32.2 J	8,670	914.				0.220
PCA-2-0-.5	'0-0.5	07/17/01			27,600	60.8 J	7,960	377.				1,020
PCA-3-0-0.5	'0-0.5	09/13/01			67,000	1,530	11,500 J	1,420				50.9
PCA-3-4-6	'4-6	09/13/01			34,300	793.	1,910 J	172.				3.80
PCA-4-0-0.5	'0-0.5	09/13/01			70,800	32.9	12,500 J	900.				121.
PCA-4-4-6	'4-6	09/26/01			52,600 J	25.0 J	5,540 J	980.				15.7
PCA-5-0.5-2	'0.5-2	09/07/01			21,300	87.0 J	3,730	276.				662.

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCA-5-0-0.5	'0-0.5	09/07/01			22,600	42.7 J	3,270	205.				1,550
PCA-6-0-0.5	'0-0.5	09/07/01			62,100	309. J	9,400	554.				308.
RR-1 0-0.5	'0-0.5	08/22/01			30,700	74.3	8,980	356.				152.
RR-1 14-16	'14-16	08/22/01			21,400	23.4	4,890	250.				12.6
RR-10 0-.5	'0-0.5	10/12/01			49,500	111.		270. J				2.80
RR-11 0-.5	'0-0.5	10/12/01			41,800	128.		282. J				1.60
RR-12 0-.5	'0-0.5	10/12/01			49,900	138.		4,710 J				2.40
RR-2-0-0.5	'0-0.5	09/13/01			33,200	8.60	13,000 J	418.				15.2
RR-2-8-10	'8-10	09/13/01			30,800	106.	3,440 J	533.				5.00
RR-3-0-0.5	'0-0.5	09/13/01			59,600	45.5	17,100 J	727.				84.9
RR-4-0-0.5	'0-0.5	09/10/01			62,600	202.	11,500 J	477.				74.5
RR-4-6-8	'6-8	09/13/01			17,500	54.4	1,260 J	138.				16.5
RR-5-0-0.5	'0-0.5	09/10/01			18,900	9.80	3,990 J	152.				2.60
RR-6-0-0.5	'0-0.5	09/10/01			31,900	24.5	8,110 J	375.				51.9
RR-6-8-10	'8-10	09/10/01			25,400	22.7	2,910 J	485.				11.1
RR-7-0-0.5	'0-0.5	09/10/01			28,800	76.2	7,460 J	326.				125.
RR-8-0-0.5	'0-0.5	09/26/01			63,000	139.	3,460	544.				28.8
RR-8-6-8	'6-8	09/26/01			11,600	123.	900. U	25.0				53.3
RR-9 0-.5	'0-0.5	10/12/01			61,100	152.		360. J				6.80
SC-1	'0-1	08/21/01			8,340 J	40.4		69.8				534.
SC-2	'0-1	08/22/01			17,800	40.0	1,300	136.				3.30
SC-3	'0-1	08/22/01			19,500	37.1	1,000	156.				0.770
SILO-B1-0-0.5	'0-0.5	09/06/01			23,200	94.2 J	18,300	648. J				382.
SILO-B1-6-8	'6-8	09/06/01			14,600	363. J	740. U	102. J				73.4
SILO-B2-0-0.5	'0-0.5	09/06/01			21,000	41.0 J	23,000	204. J				791.
SILO-B3-0-0.5	'0-0.5	09/06/01			24,800	110. J	4,960	468. J				132.
SILO-B3-6-8	'6-8	09/06/01			25,100	14.8 J	6,130	245. J				1.60
SILO-B4-0-0.5	'0-0.5	09/06/01			37,600	153. J	4,610	305. J				106.
SPR-1-0-0.5	'0-0.5	09/05/01			25,500	61.1 J	7,990	326.				109.
SPR-1-8-10	'8-10	09/05/01			6,900	84.8 J	4,960	55.6				51.2
SPR-2A-0-0.5	'0-0.5	07/19/01			30,900 J	55.7	11,100	360.				84.2
SPR-2A-8-10	'8-10	07/19/01			9,230 J	18.0	4,810	93.6				3.00
SPR-2B-0-0.5	'0-0.5	07/19/01			46,800	110.	12,800	493.				153.
SPR-2B-10-12	'10-12	07/19/01			21,700	5.80	7,040	58.1				2.20

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SPR-3 0-.5	'0-0.5	08/21/01			129,000	657.	6,190	908.				20.4
SPR-3 4-6	'4-6	08/21/01			31,500	126.	3,350	302.				277.
SPR-4A-0-0.5	'0-0.5	07/19/01			47,100 J	125.	12,100	402.				85.1
SPR-4A-8-10	'8-10	07/19/01			21,000 J	108.	6,540	60.6				11.9
SPR-4B-0-0.5	'0-0.5	08/22/01			23,600	40.1	2,780	239.				6.50
SPR-4B-4-6	'4-6	08/23/01			10,500	15.7	1,700	53.3				0.900
SPR-4C-0-0.5	'0-0.5	08/23/01			89,800	87.7	4,250	588. J				169.
SPR-4C-4-6	'4-6	08/23/01			10,800	36.6	1,210	83.0 J				9.00
SPR-5-0-0.5	'0-0.5	09/05/01			26,300	56.6 J	7,820	283.				36.2
SPR-5-2-4	'2-4	09/05/01			11,200	42.9 J	1,360	58.7				4.20
SPR-6-0.5-2	'0.5-2	09/13/01			60,800	966.	2,340 J	404.				47.3
SPR-6-0-0.5	'0-0.5	09/13/01			39,800	12.1	12,000 J	638.				3.20
SR-1-0-.5	'0-0.5	07/17/01			350,000	285. J	2,380	1,870				362.
SR-2-0-.5	'0-0.5	07/17/01			135,000	395. J	2,940	825.				6,210
SS-08-01-0.5	'0-0.5	05/14/08		0.0400 J						0.0400 J	0.000360 U	
SS-08-02-0.5	'0-0.5	05/14/08		0.0648 J						0.0636 J	0.00123	
SS-08-03-0.5	'0-0.5	05/14/08		2.14						2.14	0.000490 U	
SS-08-04-0.5	'0-0.5	05/14/08		1.35						1.35	0.000440 U	
SS-08-05-0.5	'0-0.5	05/14/08		0.240 J						0.240 J	0.000480	
SS-08-06-0.5	'0-0.5	05/14/08		7.26						7.26	0.000440 U	
SS-08-07-0.5	'0-0.5	05/14/08		264.						264.	0.00513	
SS-08-08-0.5	'0-0.5	05/14/08		57.9						57.9	0.0595	
SS-08-09-1.0	'0-1	05/15/08										1,720
SS-08-10-1.0	'0-1	05/15/08										7,870
SS-08-11-0.5	'0-0.5	05/15/08										4,760
SS-08-12-0.5	'0-0.5	05/15/08										6,840
ST-1-0-0.5	'0-0.5	09/05/01			27,300	22.4 J	11,700	355.				59.0
ST-2-0-0.5	'0-0.5	09/05/01			40,700	362. J	4,690	411.				270.
ST-3-0-0.5	'0-0.5	09/04/01			2,020	10.4 J	570. U	7.10				6.40
ST-3-4-6	'4-6	09/04/01			24,500	72.6 J	740. U	128.				8.80
TES-1-0-1	'0-1	12/05/06			60,900	68.9	6,810 J	312.				91.8 J
TES-2-0-1	'0-1	12/04/06			15,100	8.20	6,140 J	135. J				138.
TES-3-0-1	'0-1	12/04/06			111,000	104.	5,280 J	707. J				815.
TES-4-0-1	'0-1	12/05/06			39,100	1,350	3,150 J	449.				65.0 J
TLN-1 .5-2	'0.5-2	08/20/01			37,500 J	94.3	13,200	448. J				49.4

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLN-1 0-.5	'0-0.5	08/20/01			111,000 J	80.7	8,150	799. J				211.
TLN-2-0-0.5	'0-0.5	07/19/01			41,300 J	49.1	16,600	542.				21.5
TLN-3-0-.5	'0-0.5	07/17/01			36,000	58.8 J	6,570	334.				26.8
TLN-3-2-4	'2-4	07/17/01			11,500	34.6 J	1,700	215.				1.20
TLN-4 0-.5	'0-0.5	08/20/01			39,700 J	77.6	8,770	404. J				128.
TLN-4 0-.5 DUP	'0-0.5	08/20/01			32,800 J	63.5	9,130	376. J				128.
TLN-5 .5-2	'0.5-2	08/20/01			26,800 J	88.6	10,500	342. J				10.5
TLN-5 0-.5	'0-0.5	08/20/01			18,200 J	32.6	8,000	293. J				1.90
TLN-5-4-6	'4-6	08/30/01			19,900	19.3	7,220 J	328.				5.60
TLN-6 0-.5	'0-0.5	08/20/01			51,400 J	534.	9,490	566. J				58.2
TLS-10 0-.5	'0-0.5	08/21/01			34,800	32.9	14,400	382.				32.1
TLS-10 8-10	'8-10	08/21/01			9,820	49.7	3,380	119.				13.7
TLS-1-0-0.5	'0-0.5	09/05/01			35,600	261. J	12,700	430.				7.80
TLS-11-0-0.5	'0-0.5	09/07/01			43,700	212. J	19,500	483.				44.2
TLS-2-0-0.5	'0-0.5	09/07/01			34,300	58.3 J	10,800	356.				13.7
TLS-2-6-8	'6-8	09/07/01			6,550 J	4.80	830. U	13.5				3.20
TLS-3 0-.5	'0-0.5	08/21/01			45,700	73.6	13,300	625.				76.9
TLS-4-0-0.5	'0-0.5	09/07/01			82,700	423. J	11,900	614.				712.
TLS-4-8-10	'8-10	09/07/01			28,600	145. J	5,160	171.				85.4
TLS-5 0-0.5	'0-0.5	08/21/01			182,000	356.	12,300	899.				461.
TLS-5-8-10	'8-10	09/26/01			10,900	60.6	760. U	65.4				170.
TLS-6 0-.5	'0-0.5	08/21/01			106,000	1,660	5,750	843.				144.
TLS-6-3-5	'3-5	09/26/01			3,380	4,780	600. U	26.6				116.
TLS-7 0-.5	'0-0.5	08/21/01			175,000	148.	12,300	1,380				161.
TLS-8-0-0.5	'0-0.5	09/07/01			75,300	259. J	9,480	570.				75.3
TLS-8-6-8	'6-8	09/07/01			20,100	40.4 J	4,030	174.				2.30
TLS-9 0-.5	'0-0.5	08/21/01			13,200	54.3	4,520	172.				76.6
TP-105	'0-0	06/08/07			149,000	17,800	8,350	2,350				0.0460
TP-105A	'0-0	06/08/07			202,000	7,570	5,170	664.				0.0660
TP-106-A	'0-0	06/08/07			142,000	13,000	9,050	1,950				0.140
TP-106-B	'0-0	06/08/07			209,000	8,100	6,090	725.				0.180
WWT-1-0-0.5	'0-0.5	07/19/01			21,300 J	96.8	6,320	269.				410.
WWT-101-12-14	'12-14	10/27/06										377.

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Elemental Mercury	Free Water Soluble Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury found in the A Trap	Mercury found in the B Trap	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
WWT-101-15-17	'15-17	11/06/06			26,400 J	10.8	5,510	253. J				0.300
WWT-101-21-23	'21-23	11/06/06			23,400 J	9.10	7,320	481. J				0.0430
WWT-1-12-14	'12-14	08/23/01			32,300	80.6	11,200	308.				1,920
WWT-2-0-0.5	'0-0.5	08/23/01			21,700	70.0	7,020	292.				146.
WWT-2-12-14	'12-14	08/23/01			16,000	54.0	5,640	140.				2,110
WWT-3-0-0.5	'0-0.5	08/23/01			32,300	66.0	13,700	432.				197.
WWT-3-12-14	'12-14	08/23/01			28,900	109.	7,140	340.				1,660

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS				23,000			5,700	5,700			79.0
12K-B1-0.5-2	'0.5-2	09/06/01		22.9			1.20 U	1.20 U	1,590		1.20 U
12K-B1-0-0.5	'0-0.5	09/06/01		32.8			2.20 U	2.20 U	1,070		2.20 U
12K-B2-0.5-2	'0.5-2	09/06/01		30.2			1.20 U	1.20 U	2,300		1.20 U
12K-B2-0-0.5	'0-0.5	09/06/01		34.8			1.30	1.20 U	2,090		1.20 U
150K-1-0.5-2	'0.5-2	09/10/01		32.7		4,200	1.20 U	1.20 U	2,310 J		1.20 U
150K-1-0-0.5	'0-0.5	09/10/01		1,820		2,490	2.50	1.20 U	1,320 J		2.40 U
230-B1-0.5	'0-0.5	10/02/01		15.8		1,040 J	1.20 U	1.20 U	1,010		1.20 U
230-B10-0-0.5	'0-0.5	08/30/01		124.		1,210 J	1.40 U	2.00	720. U		1.40 U
230-B10-1.5-2	'1.5-2	08/30/01		17.5		3,180 J	1.30 U	3.10	2,140		1.30 U
230-B-101-0-1	'0-1	12/04/06	0.125		0.100					0.000376	
230-B11-0-0.5	'0-0.5	08/30/01		30.3		1,660 J	1.10 U	1.10 U	1,630		2.20 U
230-B11-1.5-2	'1.5-2	08/30/01		18.7		1,860 J	1.10 U	1.10 U	3,120		1.10 U
230-B1-4-6	'4-6	10/02/01		43.0		2,350 J	1.20 U	1.20 U	3,360		1.20 U
230-B2-0-0.5	'0-0.5	08/30/01		22.2		2,370 J	1.20 U	1.20 U	1,220		1.20 U
230-B2-1.5-2	'1.5-2	08/30/01		7.90		648. J	1.10 U	1.10 U	682.		1.10 U
230-B3-0-0.5	'0-0.5	08/30/01		37.6		580. U	1.20 U	3.60	580. U		1.20 U
230-B3-1.5-2	'1.5-2	08/30/01		16.0		1,670 J	1.20 U	1.20 U	1,940		1.20 U
230-B4-0-0.5	'0-0.5	08/30/01		181.		1,530 J	1.20 U	6.20	1,080		1.20 U
230-B4-1.5-2	'1.5-2	08/30/01		19.8		2,160 J	1.20 U	1.20 U	2,260		1.20 U
230-B5-0-0.5	'0-0.5	09/13/01		41.6		1,050 J	1.20 U	2.00	1,390		1.20 U
230-B5-1.5-2	'1.5-2	09/13/01		7.80		634. J	1.10 U	1.10 U	652.		1.10 U
230-B6 0-0.5	'0-0.5	08/22/01		29.3		2,070	1.10 U	2.10	550. UJ		1.10 U
230-B6 1.5-2	'1.5-2	08/22/01		17.0		2,320	1.10 U	1.10 U	570. UJ		1.10 U
230-B7 0-0.5	'0-0.5	08/22/01		40.1		1,540	1.30	2.20	590. UJ		2.40 U
230-B7 1.5-2	'1.5-2	08/22/01		27.3		4,160	1.10	1.10 U	684. J		1.10 U
230-B8 1.5-2	'1.5-2	08/22/01		28.8		2,750	1.30	1.20 U	4,890 J		1.20 U
230-B9 0-0.5	'0-0.5	08/22/01		44.6		520. U	1.30	1.00 U	1,470 J		2.10 U
230-B9 0-0.5	'0-0.5	08/22/01		41.8		560. U	1.10 U	1.10 U	760. J		2.20 U
230-B9 1.5-2	'1.5-2	08/22/01		9.20		540. U	1.10 U	1.10 U	1,400 J		1.10 U
231-101-0-1	'0-1	12/06/06	0.0268								
231-102-0-1	'0-1	12/04/06	0.0413		0.0601					0.236	
231-B1-0-0.5	'0-0.5	10/05/01		13.9		949.	1.10 U	1.10 U	570. U		2.30 U
231-B10-0-0.5	'0-0.5	09/17/01		53.9		922. J	1.20 U	1.20 U	590. U		1.20 U
231-B11-0-0.5	'0-0.5	09/19/01		30.3		1,820 J	1.30 U	1.30 U	650. U		1.30 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	09/19/01		21.4		2,550 J	1.40 U	1.40 U	700. U		1.40 U
231-B12-0-0.5	'0-0.5	09/17/01		39.2		1,630 J	1.20 U	2.30	580. U		1.20 U
231-B13-0-0.5	'0-0.5	09/19/01		62.2		1,080 J	1.20 U	19.9	610. U		1.20 U
231-B13-8-10	'9-10	09/27/01		19.4 J		2,590 J	1.10 U	1.10 U	1,480 J		1.10 U
231-B14-0-0.5	'0-0.5	09/19/01		28.0		2,400 J	1.20 U	4.00	620. U		1.20 U
231-B2-0.5-2	'0.5-2	08/22/01		25.8		2,300	1.10 U	1.10 U	1,070		1.10 U
231-B2-0-0.5	'0-0.5	08/22/01		35.6		675.	1.30	1.10 U	570. U		1.10 U
231-B3-0-0.5	'0-0.5	08/22/01		31.8		905.	1.80	1.70	600. U		1.20 U
231-B4-0-0.5	'0-0.5	08/30/01		30.8		693. J	1.20 U	1.20 U	580. U		2.30 U
231-B4-6-8	'6-8	09/27/01		10.9 J		996. J	1.20 U	1.20 U	732. J		1.20 U
231-B5-0.5-2	'0.5-2	09/19/01		12.4		1,470 J	1.20 U	1.20 U	610. U		1.20 U
231-B6-0-0.5	'0-0.5	09/27/01		29.3 J		1,310 J	1.20 U	1.20 U	635. J		1.20 U
231-B6-4-6	'4-6	09/27/01		148. J		731. J	12.3	3.90	1,600 U		11.0 U
231-B7-0-0.5	'0-0.5	09/13/01		26.4		1,270 J	1.20 U	1.20 U	1,260		1.20 U
231-B8-0-0.5	'0-0.5	09/27/01		110. J		1,200 UJ	4.10 J	3.50 J	1,200 UJ		2.40 UJ
231-B8-8-10	'8-10	09/27/01		27.9 J		1,200 J	2.20	1.60 U	1,800 J		1.60 U
231-B9-0.5-2	'0.5-2	09/27/01		22.9		3,600 J	1.40 U	1.40 U	2,290 J		1.40 U
231-B9-0-0.5	'0-0.5	09/27/01		62.9 J		1,580 J	1.40 U	2.60	690. U		2.80 U
240-1-0-0.5	'0-0.5	09/26/01		45.4		1,100	1.60	1.20 U	681.		1.20 U
240-1-8-10	'8-10	10/01/01		13.6		1,380	1.20 U	1.20 U	3,230		1.20 U
5K-B1-0-0.5	'0-0.5	10/01/01		23.7		5,900	1.20 U	1.20 U	850.		1.20 U
5K-B2-0-0.5	'0-0.5	08/31/01		91.6		1,330 J	1.70	1.10 U	660.		1.10 U
5K-B2-8-10	'8-10	08/31/01		22.4		2,690 J	1.30 U	1.30 U	4,580		1.30 U
5K-B3-0-0.5	'0-0.5	09/26/01		23.0		2,530	1.10 U	1.10 U	1,680		1.10 U
5K-B4-0-0.5	'0-0.5	10/01/01		21.1		2,050	1.20 U	1.20 U	2,120		1.20 U
5K-B4-4-6	'4-6	10/01/01		25.6		2,020	1.50 U	1.50 U	3,820		1.50 U
5K-B5-0-0.5	'0-0.5	08/31/01		19.2		2,060 J	1.40	1.10 U	1,330		1.10 U
5K-B5-4-6	'4-6	09/26/01		16.4		1,570	1.20 U	1.20 U	1,730		1.20 U
AB-1-0-0.5	'0-0.5	09/04/01		28.2		1,180 J	1.10 U	1.10 U	550. U		1.10 U
AB-2-0.5-2	'0.5-2	09/04/01		23.6		1,250 J	1.30 U	1.30 U	1,620		1.30 U
AB-2-0-0.5	'0-0.5	09/04/01		20.4		800. J	1.20 U	1.20 U	580. U		1.20 U
ADN-1-0-0.5	'0-0.5	09/05/01		14.2 J		859.	1.10 U	1.10 U	570. U		1.10 U
ADN-1-8-10	'8-10	09/05/01		23.1 J		1,730	1.40 U	1.40 U	834.		1.40 U
ADN-2-0-0.5	'0-0.5	09/05/01		22.1 J		1,500	1.30	1.10 U	560. U		1.10 U
ADN-2-10-11	'10-11	09/27/01		14.5 J		1,270 J	1.20 U	1.20 U	632. J		1.20 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADS-1-0-.5	'0-0.5	07/17/01		55.4		590. U	3.00	1.30	590. U		1.20 U
ADS-10-0-0.5	'0-2	07/18/01		800.		2,240	6.40	1.90			2.20 U
ADS-101-0-1	'0-1	12/05/06		15.5 J		982.	2.30 U	1.10 U	1,100 U		1.10 U
ADS-101-1-3	'1-3	12/05/06		16.3 J		1,260	2.20 U	1.10 U	1,100 U		1.10 U
ADS-102-0-1.5	'0-2	12/05/06		14.6 J		848.	2.20 U	1.10 U	1,100 U		1.10 U
ADS-102-7-8	'4-8	12/05/06		16.8 J		1,040	2.30 U	1.20 U	1,200 U		1.20 U
ADS-10-4-6	'4-6	07/18/01		39.8		744.	2.70	1.20 U			1.20 U
ADS-11-0-0.5	'0-2	07/18/01		820.		2,490	8.70	3.00			2.20 U
ADS-12-0.5-2	'0.5-2	07/18/01		22.6		1,390	1.20 U	1.20 U			1.20 U
ADS-12-0-0.5	'0-0.5	07/18/01		34.4		1,860	1.10 U	1.10 U			1.10 U
ADS-2-0-0.5	'0-0.5	07/18/01		29.6		530. U	1.00 U	1.00 U			2.10 U
ADS-2-4-6	'4-6	07/18/01		17.9		1,260	1.10 U	1.10 U			1.10 U
ADS-3-0-0.5	'0-0.5	07/18/01		62.3		560. U	1.10 U	1.10 U			1.10 U
ADS-4-0-0.5	'0-2	07/18/01		46.0		1,030	1.10 U	1.10 U			2.20 U
ADS-4-12-14	'12-14	07/18/01		15.5		550. U	1.10	1.10 U			1.10 U
ADS-5-0-0.5	'0-0.5	07/18/01		155.		540. U	1.10 U	1.10 U	1,460		1.10 U
ADS-5-4-6	'4-6	09/27/01		4.80 J		540. U	1.10 U	1.10 U	540. U		1.10 U
ADS-6-0.5-2	'0.5-2	07/18/01		30.8		1,840 J	1.20 U	1.80	1,800		1.20 U
ADS-6-0-0.5	'0-0.5	07/18/01		33.3		1,530 J	1.10 U	1.10 U	1,220		1.10 U
ADS-7-0-.5	'0-0.5	07/17/01		48.0		1,140	1.10 U	1.10 U	1,020		1.10 U
ADS-8-0-0.5	'0-0.5	07/18/01		55.4		570. U	1.40	1.10 U			1.10 U
ADS-8-4-6	'4-6	07/18/01		27.4		620. U	1.80	1.20 U			1.20 U
ADS-9-0-0.5	'0-0.5	07/18/01		24.0		560. U	2.10	1.10 U			1.10 U
BLIND DUP	'0-0	08/21/01		20.1		2,070	1.10 U	1.10 U	550. U		1.10 U
BSL-10-0-1	'0-1	09/21/01		18.1 J		1,190	1.40 U	1.40 U	5,210		1.40 U
BSL-1-0-1	'0-1	09/20/01		9.10		620. U	1.20 U	1.20 U	1,110		1.20 U
BSL-101-0-1	'0-1	12/06/06	0.0172								
BSL-11-0-1	'0-1	09/26/01		15.2		1,400 U	2.70 U	2.70 U	4,510		2.70 U
BSL-12-0-1	'0-1	09/26/01		10.8		570. U	1.10 U	1.10	570. U		1.10 U
BSL-1-4-6	'4-6	09/20/01		5.70 U		710. U	1.40 U	1.40 U	8,300		1.40 U
BSL-2-0-1	'0-1	09/21/01		19.8 J		1,160	1.50 U	1.50 U	5,610		1.50 U
BSL-3-0-0.5	'0-0.5	09/20/01		7.50		540. U	1.10 U	1.10 U	540. U		1.10 U
BSL-4-0-1	'0-0.5	09/21/01		6.40 J		600. U	1.20 U	1.20 U	1,140		1.20 U
BSL-4-4-6	'4-6	09/21/01		17.3 J		2,010	1.80 U	2.20	8,290		1.80 U
BSL-5-0-.5	'0-0.5	09/21/01		8.80 J		550. U	1.10 U	1.10 U	550. U		1.10 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-6-0-1	'0-1	09/26/01		15.2		816.	1.50 U	1.70	4,450		1.50 U
BSL-6-1-2	'1-2	09/26/01		11.3		1,490	1.90	8.00	9,780 J		3.80 U
BSL-7-0-.5	'0-0.5	09/21/01		7.80 J		620. U	1.20 U	1.20 U	964.		1.20 U
BSL-8-0-1	'0-1	09/26/01		7.70		1,050	1.60 U	8.10	8,380		3.20 U
BSL-9-.5-2	'0.5-2	09/21/01		16.2 J		1,180	1.60 U	1.60 U	15,100		1.60 U
BSL-9-0-.5	'0-0.5	09/21/01		4.90 UJ		610. U	1.20 U	1.20 U	657.		1.20 U
BT-B1-0-0.5	'0-0.5	09/18/01		22.1		1,800 J	1.10 U	1.10 U	570. U		1.10 U
BT-B2-0.5-2	'0.5-2	09/18/01		22.9		2,490 J	1.20 U	1.20 U	745.		1.20 U
BT-B2-0-0.5	'0-0.5	09/18/01		75.0		2,300 J	1.20 U	1.20 U	620. U		1.20 U
BT-B3-0-0.5	'0-0.5	09/18/01		21.5		2,810 J	1.10 U	1.10 U	1,370		1.10 U
BT-B4-0.5-2	'0.5-2	08/30/01		18.5		2,690 J	1.20 U	1.20 U	4,320		1.20 U
BT-B4-0-0.5	'0-0.5	08/30/01		25.1		510. U	1.00 U	2.20	825.		1.00 U
BT-B5-0-.5	'0-0.5	10/02/01		31.8		2,220 J	1.30 U	1.30 U	1,970		1.30 U
BT-B6-0.5-2	'0.5-2	09/17/01		26.3		2,800 J	1.30 U	1.30 U	4,860		1.30 U
BT-B6-0-0.5	'0-0.5	09/17/01		307.		530. U	4.40	4.20 U	2,100 U		4.20 U
CF-1-0-0.5	'0-0.5	08/31/01		8.10		580. U	1.20 U	1.20 U	580. U		1.20 U
CF-1-2-4	'2-4	08/31/01		18.0		1,660 J	1.20 U	1.20 U	918.		1.20 U
CF-2-0-0.5	'0-0.5	08/28/01		9.40		820. J	1.20 U	1.20 U	1,570		1.20 U
CF-3-0.5-2	'0.5-2	08/28/01		23.0		2,850 J	2.60	2.90	9,370		1.90 U
CF-3-0-0.5	'0-0.5	08/28/01		15.5		3,690 J	1.50	1.50 U	3,570		1.50 U
CF-4-0-0.5	'0-0.5	08/28/01		15.7		1,380 J	1.30	1.30 U	1,610		1.30 U
CF-5-0-0.5	'0-0.5	08/28/01		4.30 U		540. U	1.10 U	1.10 U	540. U		1.10 U
CF-5-4-6	'4-6	08/28/01		9.20		685. J	1.10	1.10 U	550. U		1.10 U
CF-6-0-0.5	'0-0.5	08/28/01		8.10		1,450 J	1.10 U	1.10 U	570. U		1.10 U
CF-7-0-0.5	'0-0.5	08/28/01		10.5		755. J	1.10 U	1.10 U	560. U		1.10 U
CF-7-4-6	'4-6	08/28/01		45.5		811. J	1.60	1.10 U	540. U		1.10 U
CF-8-0-0.5	'0-0.5	08/28/01		9.80		688. J	1.10 U	1.10 U	570. U		1.10 U
CF-9-0.5-2	'0.5-2	08/31/01		28.0		530. U	1.10 U	1.10 U	1,650		2.10 U
CF-9-0-0.5	'0-0.5	08/31/01		6.70		540. U	1.10 U	1.10 U	540. U		1.10 U
DC-B12-0-0.5	'0-0.5	10/03/01		27.1		3,260 J	1.10 U	1.10 U	1,540		1.10 U
DC-B12-2-4	'2-4	10/03/01		39.2		5,000 J	1.20 U	1.20 U	1,370		2.40 U
DC-SS1-0-0.5	'0-0.5	09/18/01		178.		921. J	4.60 U	4.60 U	2,300 U		4.60 U
DC-SS11-0-0.5	'0-0.5	09/17/01		21.2		1,370 J	1.10 U	1.10 U	530. U		1.10 U
DC-SS13-0-0.5	'0-0.5	09/17/01		30.0		585. J	1.10 U	1.10 U	2,200		1.10 U
DC-SS15-0-0.5	'0-0.5	09/17/01		69.6		1,730 J	1.30 U	1.30 U	707.		1.30 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DC-SS17-0-0.5	'0-0.5	09/17/01		28.4		1,380 J	1.20 U	1.20 U	2,100		1.20 U
DC-SS2-0-0.5	'0-0.5	09/17/01		130.		1,130 J	1.10 U	1.50	584.		1.10 U
DC-SS3-0-0.5	'0-0.5	09/17/01		410.		1,580 J	1.60	3.90	620. U		1.20 U
DC-SS6-0-0.5	'0-0.5	09/17/01		79.4		1,020 J	1.10 U	1.10 U	1,680		1.10 U
DC-SS7-0-0.5	'0-0.5	09/17/01		62.4		560. U	1.10 U	1.20	886.		1.10 U
DC-SS9-0-0.5	'0-0.5	09/17/01		42.2		2,170 J	1.20 U	1.20 U	1,620		1.20 U
DSP-1-0-0.5	'0-0.5	10/03/01		50.3		1,950 J	1.40	1.20 U	2,460		2.30 U
DSP-101-0-1	'0-1	12/04/06	0.0000612		0.0000620					0.00000500 U	
DSP-1-4-6	'4-6	11/19/01		30.1			1.70	1.30 U	660. U		1.30 U
DSP-2-0-0.5	'0-0.5	09/04/01		42.4		540. U	1.10 U	1.10 U	2,190		2.20 U
DSP-3-0-0.5	'0-0.5	09/04/01		31.2		842. J	1.10 U	1.10 U	1,200		2.30 U
DSP-3-2-4	'2-4	09/04/01		25.8		2,250 J	1.20 U	1.20 U	2,390		1.20 U
DSP-4-0-0.5	'0-0.5	09/04/01		42.4		2,520 J	2.40 U	2.40 U	2,470		2.40 U
DSP-4-4-6	'4-6	09/26/01		29.0 J		1,970 J	3.40	1.30 U	630. U		2.50 U
DUP-01-010824	'0-0.5	08/24/01		10.8 J		580. U	1.20 U	1.20 U	580. U		1.20 U
DUP-01-010831	'2-4	08/31/01		14.9		1,370 J	1.10 U	1.10 U	841.		1.10 U
DUP-01-010904	'0-0.5	09/04/01		42.0		541. J	1.00 U	1.00 U	618.		4.20 U
DUP-01-010905	'8-10	09/05/01		14.2 J		1,480	2.00	1.20 U	898.		1.20 U
DUP-01-010906	'0-8	09/06/01		13.5			3.20	1.60 U	811.		1.60 U
DUP-01-010913	'0-0.5	09/13/01		34.6		2,070 J	1.10 U	1.10 U	794.		1.10 U
DUP-01-010917	'0-0.5	09/17/01		40.1		939. J	1.30	1.10	633.		1.10 U
DUP-01-010926	'1-2	09/26/01		7.00 U		880. U	1.80 U	1.80 U	1,820 J		1.80 U
DUP-01-010927	'4-6	09/27/01		6.90 J		540. U	1.10 U	1.10 U	2,570		1.10 U
DUP-01-021001	'0-0	10/02/01		75.6		1,740 J	6.40	1.60	2,040		5.50 U
DUP-01-08 2201	'1.5-2	08/22/01		24.6		3,560	1.20 U	1.20 U	646. J		2.30 U
DUP-01-121001	'0-0	10/12/01		34.1		530. U	2.50	1.10 U	530. U		1.10 U
DUP-01-170402	'0-0	04/17/02		10.2		2,170	1.40 U	1.40 U	10,000		1.40 U
DUP-02-010913	'0-0.5	09/13/01		24.5		754. J	1.20 U	1.20 U	775.		1.20 U
DUP-02-010921	'0-1	09/21/01		20.6 J		1,340	1.30 U	1.30 U	3,260		2.60 U
DUP-02-010926	'4-6	09/26/01		20.0		1,460	1.20 U	1.20 U	2,390		1.20 U
DUP060807	'0-0	06/08/07		745.		2,020	36.2	10.0 U	10,000 U		25.0 U
DUP-1-010828	'0-0.5	08/28/01		9.40		1,520 J	1.10 U	1.10 U	570. U		1.10 U
DUP-1-010921	'0-0.5	09/21/01		9.40 J		670. U	1.30 U	1.30 U	1,270		1.30 U
DUP110606	'15-17	11/06/06	0.000352	17.5		2,910	2.50 U	1.30 U	4,980 J		1.30 U
DUP112006	'16-18	11/20/06		21.6 J		3,570 J	4.00 UJ	2.00 U	10,300 J		2.00 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP112106	'10-12	11/21/06	0.00339	29.6 J		4,560 J	4.00 U	2.00 U	11,300 J		2.00 U
DUP-120506	'0-4	12/05/06	0.000621	669. J		2,090	51.0 U	2.20	25,000 U		25.0 U
DUP-120606	'0-4	12/06/06		1,330 J		2,990 J	10.0 U	1.90 J	7,220 J		26.0 U
DUPE071801	'0-0.5	07/18/01		42.4		550. U	1.10 U	1.10 U			1.10 U
EC-1	'0-1	08/21/01		7.30		558.	1.10 U	1.10 U	550. U		1.10 U
EC-2	'0-1	08/21/01		13.9		1,000	1.10 U	1.10 U	540. U		1.10 U
EC-3	'0-1	08/21/01		14.6		876.	1.10 U	1.10 U	540. U		1.10 U
EC-4	'0-1	08/21/01		25.3		2,180	1.10 U	1.10 U	560. U		1.10 U
EC-5	'0-1	08/21/01		13.6		770.	1.10 U	1.10 U	540. U		1.10 U
EC-6	'0-1	08/21/01		11.4		590. U	1.20 U	1.20 U	1,120		1.20 U
EC-7	'0-1	08/21/01		21.5		1,430	1.20 U	1.20 U	580. U		1.20 U
EC-8	'0-1	08/21/01		18.5		764.	1.10 U	1.10 U	540. U		1.10 U
EC-9	'0-1	08/21/01		31.0		1,960	1.20 U	1.20 U	610. U		1.20
ESR-1-0-1	'0-0.5	09/04/01		5.70		560. U	1.10 U	1.10 U	560. U		1.10 U
ESR-1-4-6	'4-6	09/04/01		5.10 U		640. U	1.30 U	1.30 U	1,580		1.30 U
HB-101A	'17-17	03/05/07	0.0235	14.1		1,790 J	2.20 U	1.10 U	6,120 J		1.10 U
HB-102A	'0-0	03/13/07	0.0000309	22.9		4,120 J	3.50 U	1.70 U	7,980 J		1.70 U
HB-102B	'0-0	03/14/07		16.4 J		2,500 J	2.40 U	1.20 U	1,250		1.20 UJ
HB-102C	'0-0	03/14/07		31.6 J		3,230 J	2.30 U	1.10 U	1,220		1.10 UJ
H-B-103A	'17-17	02/20/07		23.2		2,610	3.20 U	1.60 U	1,600 U		1.60 U
H-B-104A	'17-17	02/23/07		18.3		1,830	2.60 U	1.30 U	1,300 U		1.30 U
H-B-104B	'17-17	02/23/07		15.5		1,190	2.40 U	1.20 U	1,200 U		1.20 U
H-B-104C	'17-17	02/23/07		12.1		1,100	2.40 U	1.20 U	1,200 U		1.20 U
H-B-104D	'17-17	02/27/07		11.1		1,030	2.40 U	1.20 U	1,490		1.20 U
H-B-104E	'17-17	02/27/07		5.30		610. U	2.40 U	1.20 U	1,200 U		1.20 U
H-B-105C	'17-17	02/08/07		25.4		3,190	2.20 U	1.10 U	1,730		1.10 U
H-B-105D	'17-17	02/08/07		20.0		2,850	2.40 U	1.20 U	1,710		1.20 U
H-B-105E	'0-0	02/08/07		11.7		1,800	2.50 U	1.20 U	2,000		1.20 U
HB-1A	'6.75-6.75	04/18/02		21.7		3,750 J	1.80 U	1.80 U	26,700		1.80 U
HB-3A	'5.25-5.25	04/17/02		9.40		1,910	1.50 U	1.50 U	11,000		1.50 U
HB-3B	'4.5-4.5	04/17/02		18.8		2,760	1.20 U	1.20 U	2,070		1.20 U
HB-3C	'4.5-4.5	04/18/02		18.4		2,790	1.20 U	1.20 U	1,850		1.20 U
HB-3D	'4.5-4.5	04/18/02		17.8		2,910	1.30 U	1.30 U	2,190		1.30 U
HB-4A	'5.33-5.33	04/19/02		5.20 U		663. J	1.30 U	1.30 U	856.		1.30 U
HB-5A	'3-3	04/22/02		23.4		4,390	1.20 U	1.20 U	1,420		1.20 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HB-7A	'5-5	04/19/02		11.6		3,320 J	1.20 U	1.20 U	4,300		1.20 U
HB-8A	'3-3	04/23/02		22.4		1,080	1.20 U	1.20 U	1,170		1.20 U
HB-8B	'4.83-4.83	04/23/02		12.5		1,090	1.20 U	1.20 U	791.		1.20 U
HB-8C	'5.5-5.5	04/23/02		15.6		1,710	1.30 U	1.30 U	1,270		1.30 U
HB-9A	'4.75-4.75	04/24/02		22.7		1,520	1.70	1.20 U	1,180		1.20 U
HF-B1-0-0.5	'0-0.5	09/10/01		20.3		3,280	1.20 U	1.20 U	1,330 J		1.20 U
HF-B1-8-10	'8-10	09/10/01		22.7		2,530	1.30 U	1.30 U	1,330 J		1.30 U
HF-B2-0-0.5	'0-0.5	09/04/01		45.6		530. U	1.10 U	1.10 U	535.		2.10 U
HF-B2-4-6	'4-6	09/04/01		20.1		580. U	1.20 U	1.20 U	580. U		1.20 U
HF-B3-0-.5	'0-0.5	10/02/01		35.4		651. J	1.10 U	1.10 U	1,070		2.20 U
HF-B3-8-10	'8-10	10/02/01		16.3		1,330 J	1.20 U	1.20 U	800.		1.20 U
IB-1-0-2	'0-2	04/08/02		22.3 J		1,120	1.10 U	1.10 U	1,920		1.10 U
IB-1-4-6	'4-6	04/08/02		13.0 J		890.	1.30 U	1.30 U	1,970		1.30 U
IB-2-12-14	'12-14	04/08/02		21.0 J		1,410	1.30 U	1.30 U	1,130		1.30 U
IB-2-4-6	'4-6	04/08/02		52.0 J		1,520	1.30 U	1.30 U	792.		1.30 U
IB-3-4-6	'4-6	04/08/02		14.5 J		1,480	1.30 U	1.30 U	1,330		1.30 U
IB-3-8-10	'8-10	04/08/02		19.0 J		1,540	1.40 U	1.40 U	1,630		1.40 U
LB-101-0-1	'0-1	12/06/06		10.1 J		737. J	2.20 U	1.10 U	1,100 U		1.10 U
LB-101-1-3	'1-3	12/06/06		823. J		3,210 J	21.1	4.00 J	7,700 J		26.0 U
LB-102-0-1	'0-3	12/06/06		9.60 J		1,090 J	2.30 U	1.20 U	1,200 U		1.20 U
LB-102-1-3	'3-7	12/06/06		596. J		1,950 J	6.70 U	2.10 J	4,450 J		28.0 U
LB-103-0-1	'0-1	12/06/06		417. J		1,280 J	6.10	1.20 J	2,470 J		27.0 U
LB-103-5-7	'5-7	12/06/06		531. J		1,880 J	10.6	2.40 J	2,920 J		31.0 U
LCP-231-SS112706	'0-0	11/27/06		26.2 J		510. UJ	10.0 U	1.00 U	1,000 U		5.10 U
LHP-101-0-1	'0-1	12/04/06		37.0		580. U	2.30 U	1.20 U	1,200 U		1.20 U
LHP-101-5-8	'4-8	12/04/06		19.2		1,510	2.70 U	1.40 U	1,400 U		1.40 U
LHP-102-0-1	'0-1	12/05/06		97.6 J		621.	2.30 U	1.10 U	1,100 U		1.10 U
LHP-102-7-9	'7-9	12/05/06		16.5 J		720. U	2.90 U	1.40 U	1,400 U		1.40 U
LHP-103-0-1	'0-1	12/05/06		23.0 J		1,250	2.30 U	1.10 U	1,100 U		1.10 U
LHP-103-1-3	'1-3	12/05/06	0.000210	23.1 J		882.	2.40 U	1.20 U	1,200 U		1.20 U
LHP-104-0-1	'0-1	12/05/06		23.1 J		500. U	2.00 U	1.00 U	1,000 U		1.00 U
LHP-104-7-9	'4-8	12/05/06		638. J		2,820	58.0 U	3.00	29,000 U		29.0 U
LHP-105-0-1	'0-1	12/05/06		792. J		2,930	55.0 U	3.40	27,000 U		27.0 U
LHP-105-1-3	'1-3	12/05/06		945. J		2,920	50.0 U	2.50	25,000 U		25.0 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-106-0-1	'0-1	12/04/06		489.		2,040	6.70	1.80	2,890		11.0 U
LHP-106-1-3	'1-3	12/04/06		850.		2,420	11.7	2.90	3,570		25.0 U
LHP-107-0-1	'0-1	12/05/06		945. J		1,890	5.30	1.10 U	2,270		27.0 U
LHP-107-5-7	'4-8	12/05/06		494. J		3,210	22.0 U	3.40	11,000 U		11.0 U
LHP-108-0-1	'0-1	12/06/06		18.5 J		708. J	2.30 U	1.10 U	1,100 U		1.10 U
LHP-108-3-7	'3-7	12/06/06	0.000277	34.3 J		3,080 J	2.50 U	1.30 U	1,300 U		1.30 U
LHP-109-0-1	'0-1	12/06/06		41.1 J		876. J	2.20 U	1.10 U	1,100 U		1.10 U
LHP-109-7-9	'7-9	12/06/06		25.6 J		2,750 J	2.70 U	1.40 U	1,400 U		1.40 U
LHP-110-0-1	'0-1	12/04/06		45.8		580. U	2.30 U	1.20 U	1,200 U		1.20 U
LHP-111-0-1	'0-1	12/04/06		15.0		980.	2.20 U	1.10 U	1,100 U		1.10 U
LHP-112-0-1	'0-1	12/04/06	0.000437	12.7		1,120	2.30 U	1.10 U	1,100 U		1.10 U
LHP-113-0-1	'0-1	12/04/06		17.9		540. U	2.10 U	1.10 U	1,380		1.10 U
LHP-114-0-1	'0-1	12/04/06		30.6		765.	2.10 U	1.10 U	1,100 U		1.10 U
LHP-115-0-1	'0-1	12/04/06		14.1		530. U	2.10 U	1.10 U	1,900		1.10 U
LHP-116-0-1	'0-1	12/04/06	0.00109	15.0		736.	2.30 U	1.20 U	1,200 U		1.20 U
LHP-117-0-1	'0-1	12/04/06		16.0		1,440	2.40 U	1.20 U	1,200 U		1.20 U
LHP-118-0-1	'0-1	12/04/06		142.		580. U	2.90	1.20 U	1,200 U		5.80 U
LHP-119-0-1	'0-1	12/04/06		23.9		1,060	2.40 U	1.20 U	1,200 U		1.20 U
LHP-120-0-1	'0-1	12/04/06		27.1		872.	2.70 U	1.30 U	1,300 U		1.30 U
LHP-121-0-1	'0-1	12/06/06		34.3 J		1,450 J	2.20 U	1.10 U	1,100 U		1.10 U
LHP-122-0-1	'0-1	12/06/06		43.9 J		683. J	2.10 U	1.10 U	1,440 J		1.10 U
LHP-123-0-1	'0-1	12/04/06	0.000203	49.6		972.	2.20 U	1.10 U	1,140		1.10 U
LHP-124-.5-2	'0.5-2	10/27/06		15.7		909.	0.680 U	0.0810 U	50.0 U		0.360 U
LHP-124-10-12	'10-12	10/31/06		23.3		3,620 J	0.550 U	0.0650 U	3,930		0.290 U
LHP-124-2-4	'2-4	10/27/06		31.8		2,600	0.720 U	0.0850 U	53.0 U		0.380 U
LHP-124-28-30	'28-30	10/31/06		20.0		2,960 J	0.800 U	0.0950 U	59.0 U		0.420 U
LHP-125-.5-2	'0.5-2	10/27/06		22.4		675.	0.660 U	0.0790 U	49.0 U		0.350 U
LHP-125-10.5-12	'10.5-12	11/01/06		9.70		1,110 J	0.750 U	0.0900 U	1,400		0.400 U
LHP-125-12-14	'12-14	11/01/06		24.9		3,150 J	0.680 U	0.0810 U	1,540		0.360 U
LHP-125-4-6	'4-6	10/27/06		28.3		1,510	0.660 U	0.0780 U	49.0 U		0.350 U
LHP-126-10.5-12	'10.5-12	11/01/06	0.0000865 B	9.00 J		1,400 J	2.30 J	0.0670 UJ	15,400 J		0.300 UJ
LHP-126-14-16	'14-16	11/01/06		26.0		2,880 J	0.680 U	0.0810 U	1,890		0.360 U
LHP-126-2-4	'2-4	10/26/06		551. J		2,370 J	55.0 U	2.80	27,000 UJ		27.0 U
LHP-126-8-10	'9-10	10/26/06		304. J		1,900 J	5.60	2.20	2,620 J		12.0 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-127-0-1	'0-1	12/06/06		913. J		2,560 J	11.0 U	2.20 J	6,760 J		27.0 U
LHP-127-3-5	'3-5	12/06/06		583. J		3,050 J	16.2	3.40 J	4,940 J		27.0 U
LHP-128-0-1	'0-4	12/06/06		1,290 J		2,990 J	10.0 U	1.80 J	7,350 J		26.0 U
LHP-128-7-8	'17-17	12/06/06		20.9 J		680. UJ	2.70 U	1.40 U	1,400 U		1.40 U
LP-1-0-0.5	'0-0.5	08/27/01		4.30 U		540. U	1.10 U	1.10 U	540. U		1.10 U
LP-10-0.5-2	'0.5-2	08/27/01		14.2		969. J	1.20 U	1.20 U	1,290		1.20 U
LP-10-0-0.5	'0-0.5	08/27/01		56.5		1,380 J	1.20	1.10 U	660.		1.10 U
LP-101-11-13	'11-13	11/02/06		29.3 J		4,810	1.10 U	0.140 U	13,000		0.600 U
LP-101-14-16	'14-16	11/02/06		15.7 J		2,680	0.960 U	0.0650 U	8,850		0.510 U
LP-101-26-28	'26-28	11/02/06		25.4 J		3,080	0.700 U	0.0470 U	1,870		0.370 U
LP-101-50-52	'50-52	11/02/06		18.2 J		1,340	0.650 U	0.0440 U	48.0 U		0.340 U
LP-101-8-10	'8-10	10/27/06	0.000798								
LP-102-0-1	'0-1	12/04/06	0.0899		0.00310					0.0121	
LP-11-0-0.5	'0-0.5	08/27/01		35.4		1,270 J	1.20	5.20	765.		1.10 U
LP-12-0-0.5	'0-0.5	08/27/01		22.2		570. U	1.10 U	1.10 U	570. U		1.10 U
LP-12-4-6	'4-6	08/27/01		4.50 U		560. U	1.10 U	1.10 U	560. U		1.10 U
LP-13-0-0.5	'0-0.5	08/24/01		48.7 J		960.	1.20 U	1.20 U	1,520		1.20 U
LP-14-0.5-2	'0.5-2	08/24/01		59.8 J		542.	1.30	1.10 U	1,150		1.10 U
LP-14-0-0.5	'0-0.5	08/24/01		11.4 J		728.	1.30	1.10 U	560. U		1.10 U
LP-15-0-0.5	'0-0.5	08/24/01		22.6 J		560. U	1.10 U	1.10 U	1,120		1.10 U
LP-16-0.5-2	'0.5-2	08/27/01		37.0		510. U	1.00 U	1.00 U	510. U		1.00 U
LP-16-0-0.5	'0-0.5	08/27/01		57.7		881. J	1.00 U	1.00 U	1,620		1.00 U
LP-2-0.5-2	'0.5-2	08/28/01		26.3		1,410 J	1.20 U	1.20 U	1,570		1.20 U
LP-2-0-0.5	'0-0.5	08/28/01		11.8		550. U	1.10 U	1.10 U	550. U		1.10 U
LP-3-0-0.5	'0-0.5	08/27/01		27.1		580. U	1.20 U	1.20 U	1,630		1.20 U
LP-4 .5-2	'0.5-2	08/21/01		22.7 J		819.	1.20 U	1.20 U	2,770		1.20 U
LP-4 0-.5	'0-0.5	08/21/01		26.4 J		805.	1.10 U	3.90	1,970		1.10 U
LP-5-0-0.5	'0-0.5	08/27/01		39.1		1,190 J	1.20	1.10 U	570. U		1.10 U
LP-6-0-0.5	'0-0.5	08/27/01		42.8		624. J	1.10 U	1.10 U	2,080		1.10 U
LP-6-4-6	'4-6	08/27/01		5.00		550. U	1.10 U	1.10 U	550. U		1.10 U
LP-7-0-0.5	'0-0.5	08/24/01		65.3 J		1,100	1.80	3.20	1,010		1.20 U
LP-8-0-0.5	'0-0.5	08/24/01		11.4 J		590. U	1.20 U	1.20 U	590. U		1.20 U
LP-8-10-12	'10-12	08/24/01		6.80 UJ		850. U	1.70 U	1.70 U	4,240		1.70
LP-9-0-0.5	'0-0.5	08/24/01		22.9 J		602.	1.10 U	1.10 U	728.		1.10 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-11D-10-12	'10-12	11/09/06	0.0407								
MW-11D-12-14	'12-14	12/14/06	0.000846	14.6 J		1,720 J	3.60 UJ	1.80 U	10,500 J		1.80 U
MW-11D-14-16	'14-16	12/14/06		4.90 J		590. U	2.40 UJ	1.20 U	2,110 J		1.20 U
MW-11D-16-18	'16-18	12/14/06		16.5 J		1,620 J	2.30 UJ	1.20 U	1,450 J		1.20 U
MW-11D-6-8	'6-8	11/09/06	0.0697								
MW-14D-13-15	'13-15	11/14/06		17.6		2,220	2.60 U	1.30 U	1,920		1.30 U
MW-14D-17-19	'17-19	11/14/06		21.0		2,570	2.50 U	1.20 U	1,970		1.20 U
MW-16D-13-15	'13-15	11/17/06		6.80 J		1,440	2.20 UJ	1.10 U	2,110 J		1.10 U
MW-16D-17-19	'17-19	11/20/06		13.3 J		1,560 J	2.40 UJ	1.20 U	2,730 J		1.20 U
MW-17D-15-17	'15-17	11/10/06		15.4 J		1,540 J	2.50 UJ	1.30 U	1,800 J		1.30 U
MW-17D-17-19	'17-19	11/10/06		12.4 J		1,470 J	2.30 UJ	1.10 U	1,710 J		1.10 U
MW-18D-13-15	'13-15	11/13/06		9.50		1,100	2.60 U	1.30 U	2,310		1.30 U
MW-18D-17-19	'17-19	11/13/06		28.7		3,490	2.30 U	1.10 U	1,830		1.10 U
MW-20D-12-14	'12-14	11/09/06		8.70		1,210 J	2.40 U	1.20 U	1,200 U		1.20 U
MW-20D-32-34	'32-32.9	11/10/06		26.5 J		3,150 J	2.20 UJ	1.10 U	1,100 U		1.10 U
MW-20D-36-38	'36-38	11/10/06		29.6 J		2,200 J	2.40 UJ	1.20 U	1,740 J		1.20 U
MW-21D-13-15	'13-13.7	11/16/06		10.7 J		1,640 J	2.50 UJ	1.20 U	2,790 J		1.20 U
MW-21D-15-17	'15-17	11/16/06		14.7 J		1,630	2.40 UJ	1.20 U	2,080 J		1.20 U
MW-23D-15-17	'15-16	11/15/06		13.9		1,970	2.40 U	1.20 U	11,100		1.20 U
MW-23D-37-39	'37-37.9	11/15/06		25.8 J		2,910 J	2.30 UJ	1.10 U	1,560 J		1.10 U
MW-25D-10-12	'10-12	11/21/06	0.0393	30.1 J		4,870 J	4.30 U	2.10 U	12,300 J		2.10 U
MW-25D-33-35	'33-35	12/18/06		21.0 J		2,290 J	2.60 UJ	1.30 U	1,300 U		1.30 U
MW-26S-8-10	'8-10	10/26/06		22.2 J		2,580 J	2.60 U	1.30 U	2,240 J		1.30 U
MW-6D-0-2	'0-2	11/08/06		8.60 J		560. UJ	2.20 U	1.10 U	1,100 U		1.10 U
MW-6D-12-14	'12-14	11/08/06	0.145	25.3 J		1,770 J	5.10 U	2.60 U	15,800 J		13.0 U
MW-6D-16-18	'16-18	11/20/06		18.5 J		2,940 J	3.50 UJ	1.80 U	8,450 J		1.80 U
MW-6D-30-32	'30-32	11/21/06		28.3 J		3,290 J	2.40 U	1.20 U	1,700 J		1.20 U
PCA-1-0-.5	'0-2	07/17/01		33.4		517.	1.00 U	1.00 U	912.		1.00 U
PCA-1-4-6	'4-6	07/17/01		30.0		3,550	1.20 U	1.20 U	580. U		1.20 U
PCA-2-0-.5	'0-0.5	07/17/01		42.0		811.	1.10 U	1.10 U	932.		1.10 U
PCA-3-0-0.5	'0-0.5	09/13/01		204.		1,380 J	1.50	1.10 U	754.		2.20 U
PCA-3-4-6	'4-6	09/13/01		86.6		620. U	1.30	1.20 U	620. U		1.20 U
PCA-4-0-0.5	'0-0.5	09/13/01		32.4		846. J	1.10 U	1.10 U	1,090		2.20 U
PCA-4-4-6	'4-6	09/26/01		34.4 J		2,960 J	1.60	1.40 U	700. U		2.80 U
PCA-5-0.5-2	'0.5-2	09/07/01		17.0 J		1,670	1.10 U	1.10 U	991.		1.10 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCA-5-0-0.5	'0-0.5	09/07/01		15.9 J		1,220	1.20 U	1.20 U	1,130		1.20 U
PCA-6-0-0.5	'0-0.5	09/07/01		81.9 J		795.	1.00	2.40	828.		1.00 U
RR-1 0-0.5	'0-0.5	08/22/01		33.3		929.	1.10 U	1.10 U	1,380 J		2.20 U
RR-1 14-16	'14-16	08/22/01		18.8		2,490	1.20 U	1.20 U	2,460 J		1.20 U
RR-10 0-.5	'0-0.5	10/12/01		30.1		550. U	2.80	1.10 U	550. U		1.10 U
RR-11 0-.5	'0-0.5	10/12/01		31.0		610. U	3.30	1.20 U	610. U		1.20 U
RR-12 0-.5	'0-0.5	10/12/01		43.9		718.	2.60	1.10 U	560. U		1.10 U
RR-2-0-0.5	'0-0.5	09/13/01		35.6		590. U	1.20 U	1.20 U	2,120		2.40 U
RR-2-8-10	'8-10	09/13/01		23.3		2,080 J	1.50 U	1.50 U	2,040		1.50 U
RR-3-0-0.5	'0-0.5	09/13/01		46.5		553. J	1.10 U	1.10 U	3,510		3.30 U
RR-4-0-0.5	'0-0.5	09/10/01		79.7		1,210	1.20 U	1.20 U	1,080 J		1.20 U
RR-4-6-8	'6-8	09/13/01		15.5		683. J	1.20 U	1.20 U	580. U		1.20 U
RR-5-0-0.5	'0-0.5	09/10/01		13.8		500. U	1.00 U	1.00 U	2,440 J		1.00 U
RR-6-0-0.5	'0-0.5	09/10/01		20.9		850.	1.00 U	1.00 U	800. J		1.00 U
RR-6-8-10	'8-10	09/10/01		13.0		2,330	1.20 U	1.20 U	710. J		1.20 U
RR-7-0-0.5	'0-0.5	09/10/01		34.4		1,960	1.10 U	1.10 U	1,190 J		1.10 U
RR-8-0-0.5	'0-0.5	09/26/01		34.4		796.	1.90	1.20 U	658.		1.20 U
RR-8-6-8	'6-8	09/26/01		16.8		900. U	3.50	1.80 U	900. U		1.80 U
RR-9 0-.5	'0-0.5	10/12/01		38.2		530. U	3.10	1.00 U	530. U		1.00 U
SC-1	'0-1	08/21/01		6.60		660. U	1.30 U	1.30 U	2,020		1.30 U
SC-2	'0-1	08/22/01		17.7		595.	1.40	1.10 U	530. U		1.10 U
SC-3	'0-1	08/22/01		16.6		607.	1.40	1.10 U	570. U		1.10 U
SILO-B1-0-0.5	'0-0.5	09/06/01		18.5			1.20 U	1.20 U	590. U		1.20 U
SILO-B1-6-8	'6-8	09/06/01		7.90			2.50	1.50 U	1,020		1.50 U
SILO-B2-0-0.5	'0-0.5	09/06/01		18.0			1.10 U	1.10 U	560. U		1.10 U
SILO-B3-0-0.5	'0-0.5	09/06/01		21.8			1.10 U	1.10 U	1,580		1.10 U
SILO-B3-6-8	'6-8	09/06/01		24.8			1.20 U	1.20 U	2,610		1.20 U
SILO-B4-0-0.5	'0-0.5	09/06/01		50.9			2.00	1.20 U	580. U		1.20 U
SPR-1-0-0.5	'0-0.5	09/05/01		40.4 J		902.	1.10 U	1.10 U	1,000		2.10 U
SPR-1-8-10	'8-10	09/05/01		38.3 J		845.	1.40 U	1.40 U	1,570		1.40 U
SPR-2A-0-0.5	'0-0.5	07/19/01		41.9		630. J	1.10 U	1.10 U	1,260		2.20 U
SPR-2A-8-10	'8-10	07/19/01		16.7		660. U	1.30 U	1.30 U	1,010		1.30 U
SPR-2B-0-0.5	'0-0.5	07/19/01		65.9		1,170	1.10 U	1.60	2,000		1.80 U
SPR-2B-10-12	'10-12	07/19/01		20.2		807.	1.50 U	1.50 U	7,030		1.50 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SPR-3 0-.5	'0-0.5	08/21/01		330. J		804.	2.30	1.10 U	2,590		1.10 U
SPR-3 4-6	'4-6	08/21/01		40.6 J		1,100	1.20 U	1.20 U	1,900		1.20 U
SPR-4A-0-0.5	'0-0.5	07/19/01		106.		600. U	1.20 U	1.20	1,120		1.20 U
SPR-4A-8-10	'8-10	07/19/01		21.0		1,580 J	1.70 U	1.70 U	12,300		1.70 U
SPR-4B-0-0.5	'0-0.5	08/22/01		32.5		654.	1.20 U	1.20 U	1,290		1.20 U
SPR-4B-4-6	'4-6	08/23/01		13.4		590. U	1.20 U	1.20 U	628.		1.20 U
SPR-4C-0-0.5	'0-0.5	08/23/01		42.4 J		838.	3.70	1.10	1,540		1.10 U
SPR-4C-4-6	'4-6	08/23/01		13.1 J		867.	1.30 U	1.30 U	1,540		1.30 U
SPR-5-0-0.5	'0-0.5	09/05/01		32.2 J		520. U	1.00 U	1.60	520. U		1.00 U
SPR-5-2-4	'2-4	09/05/01		14.6 J		600. U	1.20 U	1.20 U	600. U		1.20 U
SPR-6-0.5-2	'0.5-2	09/13/01		45.0		540. U	1.90	1.10 U	832.		1.10 U
SPR-6-0-0.5	'0-0.5	09/13/01		21.0		540. U	1.10 U	1.10 U	2,450		2.10 U
SR-1-0-.5	'0-0.5	07/17/01		135.		594.	6.50	1.60	550. U		3.30 U
SR-2-0-.5	'0-0.5	07/17/01		148.		773.	2.50	1.60	500. U		2.00 U
SS-08-01-0.5	'0-0.5	05/14/08									
SS-08-02-0.5	'0-0.5	05/14/08									
SS-08-03-0.5	'0-0.5	05/14/08									
SS-08-04-0.5	'0-0.5	05/14/08									
SS-08-05-0.5	'0-0.5	05/14/08									
SS-08-06-0.5	'0-0.5	05/14/08									
SS-08-07-0.5	'0-0.5	05/14/08									
SS-08-08-0.5	'0-0.5	05/14/08									
SS-08-09-1.0	'0-1	05/15/08									
SS-08-10-1.0	'0-1	05/15/08									
SS-08-11-0.5	'0-0.5	05/15/08									
SS-08-12-0.5	'0-0.5	05/15/08									
ST-1-0-0.5	'0-0.5	09/05/01		35.6 J		540. U	1.10 U	1.10 U	2,540		2.10 U
ST-2-0-0.5	'0-0.5	09/05/01		48.9 J		804.	1.10 U	1.10 U	561.		1.10 U
ST-3-0-0.5	'0-0.5	09/04/01		4.50 U		570. U	1.10 U	1.10 U	570. U		1.10 U
ST-3-4-6	'4-6	09/04/01		16.6		740. U	1.50 U	1.50 U	740. U		1.50 U
TES-1-0-1	'0-1	12/05/06		44.9 J		570. UJ	2.90	1.10 U	1,100 U		1.10 U
TES-2-0-1	'0-1	12/04/06		29.1		610. U	2.40 U	1.20 U	1,200 U		1.20 U
TES-3-0-1	'0-1	12/04/06		71.7		1,410	4.50	1.30 U	1,300 U		1.30 U
TES-4-0-1	'0-1	12/05/06		153. J		642.	2.60	1.10 U	1,420		5.70 U
TLN-1 .5-2	'0.5-2	08/20/01		45.9		974. J	1.20 U	1.20 U	4,410 J		1.20 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLN-1 0-.5	'0-0.5	08/20/01		106.		846. J	2.80	1.80	674. J		1.20 U
TLN-2-0-0.5	'0-0.5	07/19/01		46.4		887. J	1.00 U	1.00 U	3,450		2.10 U
TLN-3-0-.5	'0-0.5	07/17/01		40.8		530. U	1.10 U	1.10 U	2,920		1.10 U
TLN-3-2-4	'2-4	07/17/01		11.9		937.	1.30	1.20 U	921.		1.20 U
TLN-4 0-.5	'0-0.5	08/20/01		188.		628. J	1.00 U	1.00 U	1,920 J		1.00 U
TLN-4 0-.5 DUP	'0-0.5	08/20/01		84.4		523. J	1.00 U	1.00 U	2,620 J		1.00 U
TLN-5 .5-2	'0.5-2	08/20/01		24.6		746. J	1.10 U	1.10 U	2,250 J		1.10 U
TLN-5 0-.5	'0-0.5	08/20/01		18.8		1,090 J	1.00 U	1.00 U	1,470 J		1.00 U
TLN-5-4-6	'4-6	08/30/01		24.1		764. J	1.20 U	1.20 U	924.		1.20 U
TLN-6 0-.5	'0-0.5	08/20/01		177.		1,340 J	1.20	1.70	871. J		1.10 U
TLS-10 0-.5	'0-0.5	08/21/01		46.8 J		570. U	1.10 U	1.10 U	1,550		2.30 U
TLS-10 8-10	'8-10	08/21/01		13.1 J		760. U	1.50 U	1.50 U	1,380		1.50 U
TLS-1-0-0.5	'0-0.5	09/05/01		148. J		530. U	1.10	1.00 U	655.		2.10 U
TLS-11-0-0.5	'0-0.5	09/07/01		85.0 J		1,620	1.10	1.10 U	764.		2.20 U
TLS-2-0-0.5	'0-0.5	09/07/01		44.3 J		530. U	1.00 U	1.00 U	986.		2.10 U
TLS-2-6-8	'6-8	09/07/01		9.00 J		830. U	1.70 U	1.70 U	830. U		1.70 U
TLS-3 0-.5	'0-0.5	08/21/01		58.5 J		666.	1.10 U	1.10 U	3,080		1.10 U
TLS-4-0-0.5	'0-0.5	09/07/01		158. J		1,490	1.40	2.20	2,460		1.00 U
TLS-4-8-10	'8-10	09/07/01		50.2 J		790. U	1.60 U	1.60 U	12,400		4.80 U
TLS-5 0-0.5	'0-0.5	08/21/01		195.		1,060	5.20	3.50	1,390 J		3.30 U
TLS-5-8-10	'8-10	09/26/01		37.8		760. U	1.50 U	1.50 U	760. U		1.50 U
TLS-6 0-.5	'0-0.5	08/21/01		169. J		1,580	2.60	5.20	745.		2.20 U
TLS-6-3-5	'3-5	09/26/01		4.80 U		600. U	1.20 U	1.20 U	1,100		1.20 U
TLS-7 0-.5	'0-0.5	08/21/01		80.1 J		765.	5.00	1.20 U	796.		2.30 U
TLS-8-0-0.5	'0-0.5	09/07/01		108. J		810.	1.40	1.10	540. U		1.10 U
TLS-8-6-8	'6-8	09/07/01		16.6 J		1,660	1.30 U	2.20	2,110		1.30 U
TLS-9 0-.5	'0-0.5	08/21/01		30.1 J		550. U	1.10 U	1.10	550. U		1.10 U
TP-105	'0-0	06/08/07		1,410		2,750	52.0 U	26.0 U	26,000 U		26.0 U
TP-105A	'0-0	06/08/07		321.		2,010	32.0	5.90	4,900 U		9.70 U
TP-106-A	'0-0	06/08/07		1,340		3,110	53.0 U	26.0 U	26,000 U		26.0 U
TP-106-B	'0-0	06/08/07		423.		2,850	34.3	10.0 U	10,000 U		10.0 U
WWT-1-0-0.5	'0-0.5	07/19/01		18.0		1,220 J	1.20 U	1.20 U	1,070		1.80 U
WWT-101-12-14	'12-14	10/27/06	0.982								

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	Nickel	Organo-Chelated Mercury	Potassium	Selenium	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
WWT-101-15-17	'15-17	11/06/06	0.000280 B	23.0		2,950	2.40 U	1.20 U	4,400 J		1.20 U
WWT-101-21-23	'21-23	11/06/06		21.8		3,450	2.40 U	1.20 U	2,440 J		1.20 U
WWT-1-12-14	'12-14	08/23/01		31.4		862.	1.30 U	1.70	3,970		1.30 U
WWT-2-0-0.5	'0-0.5	08/23/01		29.0		722.	1.00 U	1.00 U	787.		1.00 U
WWT-2-12-14	'12-14	08/23/01		15.8		1,620	1.30 U	1.30 U	15,600		1.30 U
WWT-3-0-0.5	'0-0.5	08/23/01		41.4		570.	1.10 U	1.10 U	1,690		1.10 U
WWT-3-12-14	'12-14	08/23/01		28.8		963.	2.60	1.90	8,120		1.20 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
SRS				1,100		110,000
12K-B1-0.5-2	'0.5-2	09/06/01		31.7		111.
12K-B1-0-0.5	'0-0.5	09/06/01		58.0		4,550
12K-B2-0.5-2	'0.5-2	09/06/01		27.7		149.
12K-B2-0-0.5	'0-0.5	09/06/01		31.6		1,880
150K-1-0.5-2	'0.5-2	09/10/01		25.0		170.
150K-1-0-0.5	'0-0.5	09/10/01		54.0		16,800
230-B1-0.5	'0-0.5	10/02/01		25.3		94.6
230-B10-0-0.5	'0-0.5	08/30/01		41.3		3,110
230-B10-1.5-2	'1.5-2	08/30/01		22.4		407.
230-B-101-0-1	'0-1	12/04/06	1.42		0.00326	
230-B11-0-0.5	'0-0.5	08/30/01		47.6		643.
230-B11-1.5-2	'1.5-2	08/30/01		33.3		277.
230-B1-4-6	'4-6	10/02/01		24.8		468.
230-B2-0-0.5	'0-0.5	08/30/01		40.8		411.
230-B2-1.5-2	'1.5-2	08/30/01		21.7		37.8
230-B3-0-0.5	'0-0.5	08/30/01		21.8		218.
230-B3-1.5-2	'1.5-2	08/30/01		31.8		99.7
230-B4-0-0.5	'0-0.5	08/30/01		64.3		1,400
230-B4-1.5-2	'1.5-2	08/30/01		25.2		76.9
230-B5-0-0.5	'0-0.5	09/13/01		48.7		708.
230-B5-1.5-2	'1.5-2	09/13/01		19.5		34.4
230-B6 0-0.5	'0-0.5	08/22/01		42.2		386.
230-B6 1.5-2	'1.5-2	08/22/01		33.6		67.4
230-B7 0-0.5	'0-0.5	08/22/01		57.4		767.
230-B7 1.5-2	'1.5-2	08/22/01		40.7		145.
230-B8 1.5-2	'1.5-2	08/22/01		23.3		358.
230-B9 0-0.5	'0-0.5	08/22/01		56.0		1,210
230-B9 0-0.5	'0-0.5	08/22/01		56.6		547.
230-B9 1.5-2	'1.5-2	08/22/01		25.6		37.2
231-101-0-1	'0-1	12/06/06				
231-102-0-1	'0-1	12/04/06	3.07		0.0232	
231-B1-0-0.5	'0-0.5	10/05/01		32.5		9.10
231-B10-0-0.5	'0-0.5	09/17/01		35.6		307.
231-B11-0-0.5	'0-0.5	09/19/01		42.9		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	09/19/01		41.3		
231-B12-0-0.5	'0-0.5	09/17/01		52.3		1,160
231-B13-0-0.5	'0-0.5	09/19/01		65.8		568.
231-B13-8-10	'9-10	09/27/01		26.6 J		
231-B14-0-0.5	'0-0.5	09/19/01		36.9		340.
231-B2-0.5-2	'0.5-2	08/22/01		39.5		109.
231-B2-0-0.5	'0-0.5	08/22/01		62.7		132.
231-B3-0-0.5	'0-0.5	08/22/01		44.8		196.
231-B4-0-0.5	'0-0.5	08/30/01		53.7		91.6
231-B4-6-8	'6-8	09/27/01		20.9 J		
231-B5-0.5-2	'0.5-2	09/19/01		35.1		
231-B6-0-0.5	'0-0.5	09/27/01		41.2 J		
231-B6-4-6	'4-6	09/27/01		25.1 J		593. J
231-B7-0-0.5	'0-0.5	09/13/01		54.9		169.
231-B8-0-0.5	'0-0.5	09/27/01		38.6 J		1,330 J
231-B8-8-10	'8-10	09/27/01		32.4 J		
231-B9-0.5-2	'0.5-2	09/27/01		36.3 J		
231-B9-0-0.5	'0-0.5	09/27/01		41.7 J		310. J
240-1-0-0.5	'0-0.5	09/26/01		35.5		309.
240-1-8-10	'8-10	10/01/01		32.0		46.3
5K-B1-0-0.5	'0-0.5	10/01/01		38.0		66.2
5K-B2-0-0.5	'0-0.5	08/31/01		79.8		627.
5K-B2-8-10	'8-10	08/31/01		41.2		57.7
5K-B3-0-0.5	'0-0.5	09/26/01		27.8		122.
5K-B4-0-0.5	'0-0.5	10/01/01		43.7		71.0
5K-B4-4-6	'4-6	10/01/01		39.2		220.
5K-B5-0-0.5	'0-0.5	08/31/01		66.1		116.
5K-B5-4-6	'4-6	09/26/01		33.9		162.
AB-1-0-0.5	'0-0.5	09/04/01		41.2		132.
AB-2-0.5-2	'0.5-2	09/04/01		25.2		266.
AB-2-0-0.5	'0-0.5	09/04/01		58.9		168.
ADN-1-0-0.5	'0-0.5	09/05/01		34.0		
ADN-1-8-10	'8-10	09/05/01		29.0		
ADN-2-0-0.5	'0-0.5	09/05/01		61.8		
ADN-2-10-11	'10-11	09/27/01		24.2 J		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
ADS-1-0-.5	'0-0.5	07/17/01		70.1 J		953. J
ADS-10-0-0.5	'0-2	07/18/01		74.6		78,000
ADS-101-0-1	'0-1	12/05/06		44.0		45.2
ADS-101-1-3	'1-3	12/05/06		133.		43.5
ADS-102-0-1.5	'0-2	12/05/06		44.8		65.6
ADS-102-7-8	'4-8	12/05/06		29.1		67.0
ADS-10-4-6	'4-6	07/18/01		17.6		1,160
ADS-11-0-0.5	'0-2	07/18/01		69.4		99,200
ADS-12-0.5-2	'0.5-2	07/18/01		30.6		288.
ADS-12-0-0.5	'0-0.5	07/18/01		38.8		396.
ADS-2-0-0.5	'0-0.5	07/18/01		68.5		63.8
ADS-2-4-6	'4-6	07/18/01		33.4		39.2
ADS-3-0-0.5	'0-0.5	07/18/01		54.7		166.
ADS-4-0-0.5	'0-2	07/18/01		66.3		274.
ADS-4-12-14	'12-14	07/18/01		36.3		122.
ADS-5-0-0.5	'0-0.5	07/18/01		56.2		1,210
ADS-5-4-6	'4-6	09/27/01		13.3 J		
ADS-6-0.5-2	'0.5-2	07/18/01		40.6		286.
ADS-6-0-0.5	'0-0.5	07/18/01		51.7		479.
ADS-7-0-.5	'0-0.5	07/17/01		56.6 J		1,360 J
ADS-8-0-0.5	'0-0.5	07/18/01		55.7		2,350
ADS-8-4-6	'4-6	07/18/01		34.1		559.
ADS-9-0-0.5	'0-0.5	07/18/01		23.1		542.
BLIND DUP	'0-0	08/21/01		38.7		373.
BSL-10-0-1	'0-1	09/21/01		18.8		1,070
BSL-1-0-1	'0-1	09/20/01		22.0		47.5
BSL-101-0-1	'0-1	12/06/06				
BSL-11-0-1	'0-1	09/26/01		21.0		707.
BSL-12-0-1	'0-1	09/26/01		14.9		262.
BSL-1-4-6	'4-6	09/20/01		9.20		348.
BSL-2-0-1	'0-1	09/21/01		17.1		334.
BSL-3-0-0.5	'0-0.5	09/20/01		13.8		27.3
BSL-4-0-1	'0-0.5	09/21/01		13.5		69.5
BSL-4-4-6	'4-6	09/21/01		29.8		11,900
BSL-5-0-.5	'0-0.5	09/21/01		15.8		62.1

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
BSL-6-0-1	'0-1	09/26/01		25.1		481.
BSL-6-1-2	'1-2	09/26/01		17.3		10,800
BSL-7-0-.5	'0-0.5	09/21/01		13.3		133.
BSL-8-0-1	'0-1	09/26/01		14.3		8,020
BSL-9-.5-2	'0.5-2	09/21/01		18.3		1,790
BSL-9-0-.5	'0-0.5	09/21/01		11.7		39.3
BT-B1-0-0.5	'0-0.5	09/18/01		28.2		96.8
BT-B2-0.5-2	'0.5-2	09/18/01		38.4		
BT-B2-0-0.5	'0-0.5	09/18/01		36.0		297.
BT-B3-0-0.5	'0-0.5	09/18/01		31.9		257.
BT-B4-0.5-2	'0.5-2	08/30/01		31.1		57.0
BT-B4-0-0.5	'0-0.5	08/30/01		64.0		55.8
BT-B5-0-.5	'0-0.5	10/02/01		31.2		201.
BT-B6-0.5-2	'0.5-2	09/17/01		35.6		
BT-B6-0-0.5	'0-0.5	09/17/01		40.2		1,790
CF-1-0-0.5	'0-0.5	08/31/01		24.5		82.7
CF-1-2-4	'2-4	08/31/01		27.9		592.
CF-2-0-0.5	'0-0.5	08/28/01		23.4		259.
CF-3-0.5-2	'0.5-2	08/28/01		43.4		2,150
CF-3-0-0.5	'0-0.5	08/28/01		32.7		610.
CF-4-0-0.5	'0-0.5	08/28/01		32.3		1,050
CF-5-0-0.5	'0-0.5	08/28/01		10.8		53.4
CF-5-4-6	'4-6	08/28/01		24.9		169.
CF-6-0-0.5	'0-0.5	08/28/01		21.5		182.
CF-7-0-0.5	'0-0.5	08/28/01		24.0		391.
CF-7-4-6	'4-6	08/28/01		35.3		1,820
CF-8-0-0.5	'0-0.5	08/28/01		20.9		226.
CF-9-0.5-2	'0.5-2	08/31/01		46.2		179.
CF-9-0-0.5	'0-0.5	08/31/01		18.0		147.
DC-B12-0-0.5	'0-0.5	10/03/01		39.1		113.
DC-B12-2-4	'2-4	10/03/01		62.8		187.
DC-SS1-0-0.5	'0-0.5	09/18/01		25.4		
DC-SS11-0-0.5	'0-0.5	09/17/01		46.3		284.
DC-SS13-0-0.5	'0-0.5	09/17/01		74.1		
DC-SS15-0-0.5	'0-0.5	09/17/01		30.9		1,230

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
DC-SS17-0-0.5	'0-0.5	09/17/01		26.3		341.
DC-SS2-0-0.5	'0-0.5	09/17/01		27.0		642.
DC-SS3-0-0.5	'0-0.5	09/17/01		31.0		1,070
DC-SS6-0-0.5	'0-0.5	09/17/01		52.7		772.
DC-SS7-0-0.5	'0-0.5	09/17/01		23.8		612.
DC-SS9-0-0.5	'0-0.5	09/17/01		53.0		524.
DSP-1-0-0.5	'0-0.5	10/03/01		46.4		2,040
DSP-101-0-1	'0-1	12/04/06	0.000721		0.0000105	
DSP-1-4-6	'4-6	11/19/01		22.4		
DSP-2-0-0.5	'0-0.5	09/04/01		70.1		579.
DSP-3-0-0.5	'0-0.5	09/04/01		55.7		752.
DSP-3-2-4	'2-4	09/04/01		28.2		127.
DSP-4-0-0.5	'0-0.5	09/04/01		40.8		2,660
DSP-4-4-6	'4-6	09/26/01		27.2 J		635. J
DUP-01-010824	'0-0.5	08/24/01		13.8		49.9
DUP-01-010831	'2-4	08/31/01		27.1		290.
DUP-01-010904	'0-0.5	09/04/01		73.0		126.
DUP-01-010905	'8-10	09/05/01		24.9		
DUP-01-010906	'0-8	09/06/01		45.7		212.
DUP-01-010913	'0-0.5	09/13/01		52.3		1,780
DUP-01-010917	'0-0.5	09/17/01		21.2		1,780
DUP-01-010926	'1-2	09/26/01		9.40		86.4
DUP-01-010927	'4-6	09/27/01		13.4 J		
DUP-01-021001	'0-0	10/02/01		39.0		327.
DUP-01-08 2201	'1.5-2	08/22/01		39.1		90.8
DUP-01-121001	'0-0	10/12/01		43.3		179.
DUP-01-170402	'0-0	04/17/02		18.0		78.1
DUP-02-010913	'0-0.5	09/13/01		61.1		264.
DUP-02-010921	'0-1	09/21/01		19.0		566.
DUP-02-010926	'4-6	09/26/01		52.2		237.
DUP060807	'0-0	06/08/07		58.9		57,700
DUP-1-010828	'0-0.5	08/28/01		23.4		120.
DUP-1-010921	'0-0.5	09/21/01		16.6		156.
DUP110606	'15-17	11/06/06		38.4 J		48.2 J
DUP112006	'16-18	11/20/06		45.5 J		274. J

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
DUP112106	'10-12	11/21/06		47.5		93.5
DUP-120506	'0-4	12/05/06		130. U		48,600
DUP-120606	'0-4	12/06/06		66.8		116,000
DUPE071801	'0-0.5	07/18/01		66.7		124.
EC-1	'0-1	08/21/01		12.0		43.8
EC-2	'0-1	08/21/01		26.0		481.
EC-3	'0-1	08/21/01		39.1		84.1
EC-4	'0-1	08/21/01		40.6		394.
EC-5	'0-1	08/21/01		24.6		55.8
EC-6	'0-1	08/21/01		13.1		104.
EC-7	'0-1	08/21/01		30.4		463.
EC-8	'0-1	08/21/01		36.4		126.
EC-9	'0-1	08/21/01		48.1		288.
ESR-1-0-1	'0-0.5	09/04/01		20.5		24.1
ESR-1-4-6	'4-6	09/04/01		9.70		87.7
HB-101A	'17-17	03/05/07		19.8		31.9
HB-102A	'0-0	03/13/07		42.7		70.1
HB-102B	'0-0	03/14/07		25.1 J		42.4 J
HB-102C	'0-0	03/14/07		34.1 J		68.4 J
H-B-103A	'17-17	02/20/07		26.4		53.3
H-B-104A	'17-17	02/23/07		23.2		42.1 J
H-B-104B	'17-17	02/23/07		14.4		33.2 J
H-B-104C	'17-17	02/23/07		12.6		31.6 J
H-B-104D	'17-17	02/27/07		13.3		26.2 J
H-B-104E	'17-17	02/27/07		9.00		10.8 J
H-B-105C	'17-17	02/08/07		25.3		56.2
H-B-105D	'17-17	02/08/07		26.3		47.7
H-B-105E	'0-0	02/08/07		26.7		36.9
HB-1A	'6.75-6.75	04/18/02		32.7		69.7
HB-3A	'5.25-5.25	04/17/02		18.3		72.9
HB-3B	'4.5-4.5	04/17/02		24.6		43.7
HB-3C	'4.5-4.5	04/18/02		24.0		42.2
HB-3D	'4.5-4.5	04/18/02		25.1		41.2
HB-4A	'5.33-5.33	04/19/02		12.5		18.3
HB-5A	'3-3	04/22/02		29.9		74.4

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
HB-7A	'5-5	04/19/02		19.5		198.
HB-8A	'3-3	04/23/02		61.4		115.
HB-8B	'4.83-4.83	04/23/02		25.7		35.5
HB-8C	'5.5-5.5	04/23/02		22.6		54.3
HB-9A	'4.75-4.75	04/24/02		22.0		88.2
HF-B1-0-0.5	'0-0.5	09/10/01		40.0		92.3
HF-B1-8-10	'8-10	09/10/01		42.0		92.3
HF-B2-0-0.5	'0-0.5	09/04/01		65.4		132.
HF-B2-4-6	'4-6	09/04/01		44.3		246.
HF-B3-0-.5	'0-0.5	10/02/01		60.9		130.
HF-B3-8-10	'8-10	10/02/01		28.0		45.4
IB-1-0-2	'0-2	04/08/02		19.9		83.8
IB-1-4-6	'4-6	04/08/02		19.0 J		74.0 J
IB-2-12-14	'12-14	04/08/02		23.4 J		77.1 J
IB-2-4-6	'4-6	04/08/02		46.2 J		77.5 J
IB-3-4-6	'4-6	04/08/02		22.5 J		119. J
IB-3-8-10	'8-10	04/08/02		25.4 J		84.8 J
LB-101-0-1	'0-1	12/06/06		24.3		98.8
LB-101-1-3	'1-3	12/06/06		77.6		99,900
LB-102-0-1	'0-3	12/06/06		41.8		46.0
LB-102-1-3	'3-7	12/06/06		43.0		71,800
LB-103-0-1	'0-1	12/06/06		36.5		40,700
LB-103-5-7	'5-7	12/06/06		44.4		42,300
LCP-231-SS112706	'0-0	11/27/06		25.0 U		42.8
LHP-101-0-1	'0-1	12/04/06		66.4		1,520 J
LHP-101-5-8	'4-8	12/04/06		17.9		50.5 J
LHP-102-0-1	'0-1	12/05/06		49.8		2,830
LHP-102-7-9	'7-9	12/05/06		11.4		136.
LHP-103-0-1	'0-1	12/05/06		30.6		307.
LHP-103-1-3	'1-3	12/05/06		17.9		955.
LHP-104-0-1	'0-1	12/05/06		13.0		1,040
LHP-104-7-9	'4-8	12/05/06		150. U		41,100
LHP-105-0-1	'0-1	12/05/06		140. U		75,500
LHP-105-1-3	'1-3	12/05/06		130. U		72,800

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
LHP-106-0-1	'0-1	12/04/06		54.4		36,900 J
LHP-106-1-3	'1-3	12/04/06		52.0		76,600 J
LHP-107-0-1	'0-1	12/05/06		52.1		79,100
LHP-107-5-7	'4-8	12/05/06		71.4		37,500
LHP-108-0-1	'0-1	12/06/06		33.5		78.0
LHP-108-3-7	'3-7	12/06/06		26.1		347.
LHP-109-0-1	'0-1	12/06/06		63.4		665.
LHP-109-7-9	'7-9	12/06/06		23.6		130.
LHP-110-0-1	'0-1	12/04/06		77.4		1,900 J
LHP-111-0-1	'0-1	12/04/06		30.9		49.5 J
LHP-112-0-1	'0-1	12/04/06		27.3		62.0 J
LHP-113-0-1	'0-1	12/04/06		57.8		49.3 J
LHP-114-0-1	'0-1	12/04/06		46.0		411. J
LHP-115-0-1	'0-1	12/04/06		60.5		34.9 J
LHP-116-0-1	'0-1	12/04/06		32.1		183. J
LHP-117-0-1	'0-1	12/04/06		35.2		398. J
LHP-118-0-1	'0-1	12/04/06		42.5		14,900 J
LHP-119-0-1	'0-1	12/04/06		26.6		1,850 J
LHP-120-0-1	'0-1	12/04/06		45.6		2,220 J
LHP-121-0-1	'0-1	12/06/06		58.2		856.
LHP-122-0-1	'0-1	12/06/06		61.4		405.
LHP-123-0-1	'0-1	12/04/06		56.6		2,330 J
LHP-124-.5-2	'0.5-2	10/27/06		28.9		129. J
LHP-124-10-12	'10-12	10/31/06		38.7		68.9 J
LHP-124-2-4	'2-4	10/27/06		17.4		62.9 J
LHP-124-28-30	'28-30	10/31/06		28.6		49.7 J
LHP-125-.5-2	'0.5-2	10/27/06		34.9		449. J
LHP-125-10.5-12	'10.5-12	11/01/06		23.0		28.2 J
LHP-125-12-14	'12-14	11/01/06		32.2		52.9 J
LHP-125-4-6	'4-6	10/27/06		26.9		58.2 J
LHP-126-10.5-12	'10.5-12	11/01/06		20.1 J		112. J
LHP-126-14-16	'14-16	11/01/06		31.0		55.9 J
LHP-126-2-4	'2-4	10/26/06		140. U		51,800
LHP-126-8-10	'9-10	10/26/06		45.5		18,900

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury mg/kg	Vanadium mg/kg	Water Soluble Mercury mg/kg	Zinc mg/kg
LHP-127-0-1	'0-1	12/06/06		73.8		114,000
LHP-127-3-5	'3-5	12/06/06		68.5		51,100
LHP-128-0-1	'0-4	12/06/06		69.3		110,000
LHP-128-7-8	'17-17	12/06/06		12.9		326.
LP-1-0-0.5	'0-0.5	08/27/01		11.0		
LP-10-0.5-2	'0.5-2	08/27/01		20.3		
LP-10-0-0.5	'0-0.5	08/27/01		33.1		
LP-101-11-13	'11-13	11/02/06		46.2		81.9 J
LP-101-14-16	'14-16	11/02/06		24.5		42.7 J
LP-101-26-28	'26-28	11/02/06		27.6		54.2 J
LP-101-50-52	'50-52	11/02/06		24.4		40.1 J
LP-101-8-10	'8-10	10/27/06				
LP-102-0-1	'0-1	12/04/06	1.82		0.0153	
LP-11-0-0.5	'0-0.5	08/27/01		39.2		
LP-12-0-0.5	'0-0.5	08/27/01		21.4		
LP-12-4-6	'4-6	08/27/01		15.1		
LP-13-0-0.5	'0-0.5	08/24/01		38.1		385.
LP-14-0.5-2	'0.5-2	08/24/01		45.9		474.
LP-14-0-0.5	'0-0.5	08/24/01		25.1		78.6
LP-15-0-0.5	'0-0.5	08/24/01		28.2		249.
LP-16-0.5-2	'0.5-2	08/27/01		30.4		
LP-16-0-0.5	'0-0.5	08/27/01		52.0		
LP-2-0.5-2	'0.5-2	08/28/01		44.8		258.
LP-2-0-0.5	'0-0.5	08/28/01		22.1		164.
LP-3-0-0.5	'0-0.5	08/27/01		48.7		
LP-4 .5-2	'0.5-2	08/21/01		41.3		134. J
LP-4 0-.5	'0-0.5	08/21/01		30.7		135. J
LP-5-0-0.5	'0-0.5	08/27/01		38.7		
LP-6-0-0.5	'0-0.5	08/27/01		65.1		
LP-6-4-6	'4-6	08/27/01		14.5		21.8
LP-7-0-0.5	'0-0.5	08/24/01		33.6		864.
LP-8-0-0.5	'0-0.5	08/24/01		15.6		50.9
LP-8-10-12	'10-12	08/24/01		8.50 U		1,750
LP-9-0-0.5	'0-0.5	08/24/01		37.3		152.

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
MW-11D-10-12	'10-12	11/09/06				
MW-11D-12-14	'12-14	12/14/06		15.9		31.2 J
MW-11D-14-16	'14-16	12/14/06		11.9		14.1 J
MW-11D-16-18	'16-18	12/14/06		23.3		43.8 J
MW-11D-6-8	'6-8	11/09/06				
MW-14D-13-15	'13-15	11/14/06		45.0		68.0
MW-14D-17-19	'17-19	11/14/06		30.1		49.5
MW-16D-13-15	'13-15	11/17/06		26.7 J		21.5 J
MW-16D-17-19	'17-19	11/20/06		19.3 J		34.8 J
MW-17D-15-17	'15-17	11/10/06		22.5 J		67.2 J
MW-17D-17-19	'17-19	11/10/06		19.0 J		29.5 J
MW-18D-13-15	'13-15	11/13/06		23.1		24.3
MW-18D-17-19	'17-19	11/13/06		28.7		62.8
MW-20D-12-14	'12-14	11/09/06		26.4		34.4
MW-20D-32-34	'32-32.9	11/10/06		29.8 J		56.1 J
MW-20D-36-38	'36-38	11/10/06		27.4 J		58.8 J
MW-21D-13-15	'13-13.7	11/16/06		27.1 J		32.0 J
MW-21D-15-17	'15-17	11/16/06		19.6 J		33.5 J
MW-23D-15-17	'15-16	11/15/06		22.5		37.4
MW-23D-37-39	'37-37.9	11/15/06		27.5 J		56.6 J
MW-25D-10-12	'10-12	11/21/06		51.9		103.
MW-25D-33-35	'33-35	12/18/06		28.4		49.1 J
MW-26S-8-10	'8-10	10/26/06		33.2		102.
MW-6D-0-2	'0-2	11/08/06		56.1		33.0
MW-6D-12-14	'12-14	11/08/06		31.5		55,600
MW-6D-16-18	'16-18	11/20/06		37.9 J		550. J
MW-6D-30-32	'30-32	11/21/06		32.3		68.2
PCA-1-0-.5	'0-2	07/17/01		63.8 J		210. J
PCA-1-4-6	'4-6	07/17/01		33.4 J		82.0 J
PCA-2-0-.5	'0-0.5	07/17/01		47.4 J		147. J
PCA-3-0-0.5	'0-0.5	09/13/01		56.6		15,700
PCA-3-4-6	'4-6	09/13/01		18.1		6,670
PCA-4-0-0.5	'0-0.5	09/13/01		79.2		690.
PCA-4-4-6	'4-6	09/26/01		24.2 J		
PCA-5-0.5-2	'0.5-2	09/07/01		33.6		64.1

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
PCA-5-0-0.5	'0-0.5	09/07/01		37.1		51.8
PCA-6-0-0.5	'0-0.5	09/07/01		52.3		1,010
RR-1 0-0.5	'0-0.5	08/22/01		56.5		243.
RR-1 14-16	'14-16	08/22/01		32.0		76.6
RR-10 0-.5	'0-0.5	10/12/01		41.0		69.9
RR-11 0-.5	'0-0.5	10/12/01		51.0		189.
RR-12 0-.5	'0-0.5	10/12/01		46.3		318.
RR-2-0-0.5	'0-0.5	09/13/01		81.6		63.5
RR-2-8-10	'8-10	09/13/01		35.4		381.
RR-3-0-0.5	'0-0.5	09/13/01		77.2		424.
RR-4-0-0.5	'0-0.5	09/10/01		45.2		493.
RR-4-6-8	'6-8	09/13/01		13.0		75.8
RR-5-0-0.5	'0-0.5	09/10/01		94.5		43.6
RR-6-0-0.5	'0-0.5	09/10/01		55.5		96.6
RR-6-8-10	'8-10	09/10/01		30.4		49.9
RR-7-0-0.5	'0-0.5	09/10/01		45.6		188.
RR-8-0-0.5	'0-0.5	09/26/01		81.9		232.
RR-8-6-8	'6-8	09/26/01		19.0		79.1
RR-9 0-.5	'0-0.5	10/12/01		57.3		99.4
SC-1	'0-1	08/21/01		20.0		73.6
SC-2	'0-1	08/22/01		23.7		106.
SC-3	'0-1	08/22/01		23.8		94.7
SILO-B1-0-0.5	'0-0.5	09/06/01		36.4		119.
SILO-B1-6-8	'6-8	09/06/01		23.2		143.
SILO-B2-0-0.5	'0-0.5	09/06/01		21.0		
SILO-B3-0-0.5	'0-0.5	09/06/01		36.1		202.
SILO-B3-6-8	'6-8	09/06/01		28.5		
SILO-B4-0-0.5	'0-0.5	09/06/01		49.4		260.
SPR-1-0-0.5	'0-0.5	09/05/01		64.3		
SPR-1-8-10	'8-10	09/05/01		12.9		
SPR-2A-0-0.5	'0-0.5	07/19/01		45.3		133.
SPR-2A-8-10	'8-10	07/19/01		21.8		44.4
SPR-2B-0-0.5	'0-0.5	07/19/01		60.1		324.
SPR-2B-10-12	'10-12	07/19/01		17.8		22.9

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
SPR-3 0-.5	'0-0.5	08/21/01		38.2		4,410 J
SPR-3 4-6	'4-6	08/21/01		39.8		345. J
SPR-4A-0-0.5	'0-0.5	07/19/01		57.3		707.
SPR-4A-8-10	'8-10	07/19/01		19.8		50.2
SPR-4B-0-0.5	'0-0.5	08/22/01		30.2		79.5
SPR-4B-4-6	'4-6	08/23/01		16.6		54.2 J
SPR-4C-0-0.5	'0-0.5	08/23/01		43.8		310.
SPR-4C-4-6	'4-6	08/23/01		18.1		56.3
SPR-5-0-0.5	'0-0.5	09/05/01		69.0		
SPR-5-2-4	'2-4	09/05/01		29.9		
SPR-6-0.5-2	'0.5-2	09/13/01		52.8		344.
SPR-6-0-0.5	'0-0.5	09/13/01		101.		58.2
SR-1-0-.5	'0-0.5	07/17/01		27.0 U		1,170 J
SR-2-0-.5	'0-0.5	07/17/01		34.2 J		1,200 J
SS-08-01-0.5	'0-0.5	05/14/08	0.546			
SS-08-02-0.5	'0-0.5	05/14/08	7.15			
SS-08-03-0.5	'0-0.5	05/14/08	171.			
SS-08-04-0.5	'0-0.5	05/14/08	244.			
SS-08-05-0.5	'0-0.5	05/14/08	7.40			
SS-08-06-0.5	'0-0.5	05/14/08	609.			
SS-08-07-0.5	'0-0.5	05/14/08	1,750			
SS-08-08-0.5	'0-0.5	05/14/08	887.			
SS-08-09-1.0	'0-1	05/15/08				
SS-08-10-1.0	'0-1	05/15/08				
SS-08-11-0.5	'0-0.5	05/15/08				
SS-08-12-0.5	'0-0.5	05/15/08				
ST-1-0-0.5	'0-0.5	09/05/01		55.7		
ST-2-0-0.5	'0-0.5	09/05/01		52.1		1,260
ST-3-0-0.5	'0-0.5	09/04/01		10.0		6.50
ST-3-4-6	'4-6	09/04/01		16.7		695.
TES-1-0-1	'0-1	12/05/06		69.8		83.6
TES-2-0-1	'0-1	12/04/06		38.8		55.0 J
TES-3-0-1	'0-1	12/04/06		50.8		223. J
TES-4-0-1	'0-1	12/05/06		31.5		13,000
TLN-1 .5-2	'0.5-2	08/20/01		50.3		378.

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
TLN-1 0-.5	'0-0.5	08/20/01		49.0		451.
TLN-2-0-0.5	'0-0.5	07/19/01		71.8		162.
TLN-3-0-.5	'0-0.5	07/17/01		56.6 J		206. J
TLN-3-2-4	'2-4	07/17/01		20.2		33.1 J
TLN-4 0-.5	'0-0.5	08/20/01		54.6		496.
TLN-4 0-.5 DUP	'0-0.5	08/20/01		57.9		240.
TLN-5 .5-2	'0.5-2	08/20/01		69.6		116.
TLN-5 0-.5	'0-0.5	08/20/01		48.1		164.
TLN-5-4-6	'4-6	08/30/01		37.4		67.5
TLN-6 0-.5	'0-0.5	08/20/01		56.5		1,920
TLS-10 0-.5	'0-0.5	08/21/01		61.8		156. J
TLS-10 8-10	'8-10	08/21/01		23.6		52.2 J
TLS-1-0-0.5	'0-0.5	09/05/01		45.8		1,370
TLS-11-0-0.5	'0-0.5	09/07/01		73.7		1,090
TLS-2-0-0.5	'0-0.5	09/07/01		56.3		204.
TLS-2-6-8	'6-8	09/07/01		11.9		23.2
TLS-3 0-.5	'0-0.5	08/21/01		67.7		270. J
TLS-4-0-0.5	'0-0.5	09/07/01		69.8		2,100
TLS-4-8-10	'8-10	09/07/01		21.7		238.
TLS-5 0-0.5	'0-0.5	08/21/01		67.7		1,100
TLS-5-8-10	'8-10	09/26/01		7.60 U		173.
TLS-6 0-.5	'0-0.5	08/21/01		249.		2,350 J
TLS-6-3-5	'3-5	09/26/01		6.00 U		12.1
TLS-7 0-.5	'0-0.5	08/21/01		60.3		815. J
TLS-8-0-0.5	'0-0.5	09/07/01		57.7		854.
TLS-8-6-8	'6-8	09/07/01		31.9		78.8
TLS-9 0-.5	'0-0.5	08/21/01		55.2		290. J
TP-105	'0-0	06/08/07		55.5		141,000
TP-105A	'0-0	06/08/07		45.0		27,500
TP-106-A	'0-0	06/08/07		52.8		125,000
TP-106-B	'0-0	06/08/07		45.2		33,700
WWT-1-0-0.5	'0-0.5	07/19/01		52.6		136.
WWT-101-12-14	'12-14	10/27/06				

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
WWT-101-15-17	'15-17	11/06/06		41.8 J		52.6 J
WWT-101-21-23	'21-23	11/06/06		30.0 J		51.7 J
WWT-1-12-14	'12-14	08/23/01		125.		127. J
WWT-2-0-0.5	'0-0.5	08/23/01		50.8		156. J
WWT-2-12-14	'12-14	08/23/01		37.2		65.1 J
WWT-3-0-0.5	'0-0.5	08/23/01		73.2		316. J
WWT-3-12-14	'12-14	08/23/01		43.2		198. J

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			0.2	0.5		2		2	0.2	6800	6800	6800	
12K-B1-0.5-2	'0.5-2	9/6/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
12K-B1-0-0.5	'0-0.5	9/6/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
12K-B2-0.5-2	'0.5-2	9/6/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U
12K-B2-0-0.5	'0-0.5	9/6/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
150K-1-0.5-2	'0.5-2	9/10/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 UJ	0.00380 U	0.00380 U	0.00380 U	0.00380 UJ	0.00380 U
150K-1-0-0.5	'0-0.5	9/10/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 UJ	0.00390 U	0.00390 U	0.00390 U	0.00390 UJ	0.00390 U
230-B1-0.5	'0-0.5	10/2/2001	0.00440 U	0.00440 U	0.00440 U	0.109 J	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U
230-B10-0-0.5	'0-0.5	8/30/2001	0.00530 UJ	0.00530 UJ	0.00530 UJ	0.00530 UJ	0.00530 UJ	0.00530 UJ	0.00530 UJ	0.00530 UJ	0.00530 UJ	0.00530 UJ	0.00530 UJ
230-B10-1.5-2	'1.5-2	8/30/2001	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U
230-B11-0-0.5	'0-0.5	8/30/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
230-B11-1.5-2	'1.5-2	8/30/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
230-B1-4-6	'4-6	10/2/2001	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U
230-B2-0-0.5	'0-0.5	8/30/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
230-B2-1.5-2	'1.5-2	8/30/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
230-B3-0-0.5	'0-0.5	8/30/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
230-B3-1.5-2	'1.5-2	8/30/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
230-B4-0-0.5	'0-0.5	8/30/2001	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ
230-B4-1.5-2	'1.5-2	8/30/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
230-B5-0-0.5	'0-0.5	9/13/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.0119	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
230-B5-1.5-2	'1.5-2	9/13/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
230-B6 0-0.5	'0-0.5	8/22/2001	0.0190 U	0.0190 U	0.0370 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0370 U	0.0370 U	0.0370 U
230-B6 1.5-2	'1.5-2	8/22/2001	0.00750 U	0.00750 U	0.0150 U	0.00750 U	0.00750 U	0.00750 U	0.00750 U	0.00750 U	0.0150 U	0.0150 U	0.0150 U
230-B7 0-0.5	'0-0.5	8/22/2001	0.0410 U	0.0410 U	0.0820 U	0.0410 U	0.0410 U	0.0410 U	0.0410 U	0.0410 U	0.0820 U	0.0820 U	0.0820 U
230-B7 1.5-2	'1.5-2	8/22/2001	0.00770 U	0.00770 U	0.0150 U	0.00770 U	0.00770 U	0.00770 U	0.00770 U	0.00770 U	0.0150 U	0.0150 U	0.0150 U
230-B8 1.5-2	'1.5-2	8/22/2001	0.0200 U	0.0200 U	0.0400 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0400 U	0.0400 U	0.0400 U
230-B9 0-0.5	'0-0.5	8/22/2001	0.00720 U	0.00720 U	0.0140 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.0140 U	0.0140 U	0.0140 U
230-B9 0-0.5	'0-0.5	8/22/2001	0.0370 U	0.0370 U	0.0730 U	0.0370 U	0.0370 U	0.0370 U	0.0370 U	0.0370 U	0.0730 U	0.0730 U	0.0730 U
230-B9 1.5-2	'1.5-2	8/22/2001	0.00180 U	0.00180 U	0.00370 U	0.00180 U	0.00180 U	0.00180 U	0.00180 U	0.00180 U	0.00370 U	0.00370 U	0.00370 U
231-B1-0-0.5	'0-0.5	10/5/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
231-B10-0-0.5	'0-0.5	9/17/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
231-B11-0-0.5	'0-0.5	9/19/2001	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U
231-B11-8-10	'8-10	9/19/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
231-B12-0-0.5	'0-0.5	9/17/2001	0.00370 U	0.00370 U	0.00370 U	0.0184	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B13-0-0.5	'0-0.5	9/19/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
231-B13-8-10	'9-10	9/27/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
231-B14-0-0.5	'0-0.5	9/19/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
231-B2-0.5-2	'0.5-2	8/22/2001	0.0370 U	0.0370 U	0.0740 U	0.0370 U	0.0370 U	0.0370 U	0.0370 U	0.0370 U	0.0740 U	0.0740 U	0.0740 U
231-B2-0-0.5	'0-0.5	8/22/2001	0.0980 U	0.0980 U	0.200 U	0.0980 U	0.0980 U	0.0980 U	0.0980 U	0.0980 U	0.200 U	0.200 U	0.200 U
231-B3-0-0.5	'0-0.5	8/22/2001	0.200 U	0.200 U	0.390 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.390 U	0.390 U	0.390 U
231-B4-0-0.5	'0-0.5	8/30/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
231-B4-6-8	'6-8	9/27/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
231-B5-0.5-2	'0.5-2	9/19/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
231-B6-0-0.5	'0-0.5	9/27/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
231-B6-4-6	'4-6	9/27/2001	0.00390 UJ	0.00390 UJ	0.00390 UJ	0.00390 UJ	0.00390 UJ	0.00390 UJ	0.00390 UJ	0.00390 UJ	0.00390 UJ	0.00390 UJ	0.00390 UJ
231-B7-0-0.5	'0-0.5	9/13/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
231-B8-0-0.5	'0-0.5	9/27/2001	0.00860 UJ	0.00860 UJ	0.00860 UJ	0.00860 UJ	0.00860 UJ	0.00860 UJ	0.00860 UJ	0.00860 UJ	0.00860 UJ	0.00860 UJ	0.00860 UJ
231-B8-8-10	'8-10	9/27/2001	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U
231-B9-0.5-2	'0.5-2	9/27/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U
231-B9-0-0.5	'0-0.5	9/27/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U
240-1-0-0.5	'0-0.5	9/26/2001	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 UJ	0.00460 U	0.00460 U	0.00460 U		0.00460 U	0.00460 U
240-1-8-10	'8-10	10/1/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
5K-B1-0-0.5	'0-0.5	10/1/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
5K-B2-0-0.5	'0-0.5	8/31/2001	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U
5K-B2-8-10	'8-10	8/31/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
5K-B3-0-0.5	'0-0.5	9/26/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
5K-B4-0-0.5	'0-0.5	10/1/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
5K-B4-4-6	'4-6	10/1/2001	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U
5K-B5-0-0.5	'0-0.5	8/31/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
5K-B5-4-6	'4-6	9/26/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 UJ	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
AB-1-0-0.5	'0-0.5	9/4/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
AB-2-0.5-2	'0.5-2	9/4/2001	0.00450 U	0.00450 U	0.00450 U	0.00450 U	0.00450 UJ	0.00450 U	0.00450 U	0.00450 U	0.00450 U	0.00450 U	0.00450 U
AB-2-0-0.5	'0-0.5	9/4/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 UJ	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
ADN-1-0-0.5	'0-0.5	9/5/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
ADN-1-8-10	'8-10	9/5/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U
ADN-2-0-0.5	'0-0.5	9/5/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
ADN-2-10-11	'10-11	9/27/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
ADS-1-0-.5	'0-0.5	7/17/2001	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.00230	0.000730 U	0.000730 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADS-10-0-0.5	'0-2	7/18/2001	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.0170 J	0.000790 U	0.000790 U	0.000790 U	0.000790 U
ADS-101-0-1	'0-1	12/5/2006	0.000340 U	0.000290 U	0.000420 U	0.000340 U	0.000570 U	0.000310 U	0.000390 U	0.000410 U	0.000410 U	0.000420 U	0.000370 U
ADS-101-1-3	'1-3	12/5/2006	0.000330 U	0.000280 U	0.000410 U	0.000330 U	0.000560 U	0.000300 U	0.000380 U	0.000400 U	0.000400 U	0.000410 U	0.000360 U
ADS-102-0-1.5	'0-2	12/5/2006	0.000330 U	0.000270 U	0.000400 U	0.000320 U	0.000540 U	0.000300 U	0.000370 U	0.000400 U	0.000390 U	0.000400 U	0.000350 U
ADS-102-7-8	'4-8	12/5/2006	0.000350 U	0.000300 U	0.000430 U	0.000350 U	0.000590 U	0.000320 U	0.000400 U	0.000430 U	0.000420 U	0.000430 U	0.000380 U
ADS-10-4-6	'4-6	7/18/2001	0.000940 U	0.000940 U	0.000940 U	0.000940 U	0.000940 U	0.000940 U	0.000940 U	0.000940 U	0.000940 U	0.000940 U	0.000940 U
ADS-11-0-0.5	'0-2	7/18/2001	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U
ADS-12-0.5-2	'0.5-2	7/18/2001	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.000910 U
ADS-12-0-0.5	'0-0.5	7/18/2001	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U
ADS-2-0-0.5	'0-0.5	7/18/2001	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U
ADS-2-4-6	'4-6	7/18/2001	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U
ADS-3-0-0.5	'0-0.5	7/18/2001	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U
ADS-4-0-0.5	'0-2	7/18/2001	0.000730 U	0.000730 U	0.000730 U	0.0284 J	0.000730 U	0.0207 J	0.0194 J	0.000730 U	0.000730 U	0.000730 U	0.000730 U
ADS-4-12-14	'12-14	7/18/2001	0.00750 J	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U
ADS-5-0-0.5	'0-0.5	7/18/2001	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U
ADS-5-4-6	'4-6	9/27/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
ADS-6-0.5-2	'0.5-2	7/18/2001	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U
ADS-6-0-0.5	'0-0.5	7/18/2001	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U
ADS-7-0-.5	'0-0.5	7/17/2001	0.000700 U	0.000700 U	0.000700 U	0.000700 U	0.000700 U	0.000700 U	0.000700 U	0.000700 U	0.000700 U	0.000700 U	0.000700 U
ADS-8-0-0.5	'0-0.5	7/18/2001	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U
ADS-8-4-6	'4-6	7/18/2001	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U
ADS-9-0-0.5	'0-0.5	7/18/2001	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U
BLIND DUP	'0-0	8/21/2001	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U
BSL-10-0-1	'0-1	9/21/2001	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00160	0.00100 U	0.00100 U	0.00100 U	0.00100 U
BSL-1-0-1	'0-1	9/20/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U
BSL-11-0-1	'0-1	9/26/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U
BSL-12-0-1	'0-1	9/26/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
BSL-1-4-6	'4-6	9/20/2001	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U
BSL-2-0-1	'0-1	9/21/2001	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
BSL-3-0-0.5	'0-0.5	9/20/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
BSL-4-0-1	'0-0.5	9/21/2001	0.000890 U	0.000890 U	0.000890 U	0.000890 U	0.000890 U	0.000890 U	0.000890 U	0.000890 U	0.000890 U	0.000890 U	0.000890 U
BSL-4-4-6	'4-6	9/21/2001	0.00190 U	0.00190 U	0.00190 U	0.00190 U	0.00190 U	0.00190 U	0.00190 U	0.00190 U	0.00190 U	0.00190 U	0.00190 U
BSL-5-0-.5	'0-0.5	9/21/2001	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U
BSL-6-0-1	'0-1	9/26/2001	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-6-1-2	'1-2	9/26/2001	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U
BSL-7-0-.5	'0-0.5	9/21/2001	0.00260 U	0.00260 U	0.00260 U	0.00260 U	0.00260 U	0.00260 U	0.00260 U	0.00260 U	0.00260 U	0.00260 U	0.00260 U
BSL-8-0-1	'0-1	9/26/2001	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U
BSL-9-.5-2	'0.5-2	9/21/2001	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U
BSL-9-0-.5	'0-0.5	9/21/2001	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U
BT-B1-0-0.5	'0-0.5	9/18/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
BT-B2-0.5-2	'0.5-2	9/18/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
BT-B2-0-0.5	'0-0.5	9/18/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U
BT-B3-0-0.5	'0-0.5	9/18/2001	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U
BT-B4-0.5-2	'0.5-2	8/30/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
BT-B4-0-0.5	'0-0.5	8/30/2001	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U
BT-B5-0-.5	'0-0.5	10/2/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
BT-B6-0.5-2	'0.5-2	9/17/2001	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U
BT-B6-0-0.5	'0-0.5	9/17/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
CF-1-0-0.5	'0-0.5	8/31/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
CF-1-2-4	'2-4	8/31/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
CF-2-0-0.5	'0-0.5	8/28/2001	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U
CF-3-0.5-2	'0.5-2	8/28/2001	0.00710 U	0.00710 U	0.00710 U	0.00710 U	0.00710 U	0.00710 U	0.00710 U	0.00710 U	0.00710 UJ	0.00710 U	0.00710 U
CF-3-0-0.5	'0-0.5	8/28/2001	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U
CF-4-0-0.5	'0-0.5	8/28/2001	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 UJ	0.00470 U	0.00470 U
CF-5-0-0.5	'0-0.5	8/28/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
CF-5-4-6	'4-6	8/28/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
CF-6-0-0.5	'0-0.5	8/28/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U
CF-7-0-0.5	'0-0.5	8/28/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 UJ	0.00420 U	0.00420 U
CF-7-4-6	'4-6	8/28/2001	0.00400 U	0.00400 U	0.0553 J	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 UJ	0.00400 U	0.00400 U
CF-8-0-0.5	'0-0.5	8/28/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
CF-9-0.5-2	'0.5-2	8/31/2001	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U
CF-9-0-0.5	'0-0.5	8/31/2001	0.00370 U	0.00370 U	0.00370 U	0.0159	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
DC-B12-0-0.5	'0-0.5	10/3/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
DC-B12-2-4	'2-4	10/3/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
DC-SS11-0-0.5	'0-0.5	9/17/2001	0.00330 U	0.00330 U	0.00330 U	0.00900	0.00330 U	0.00330 U	0.00330 U	0.00330 U	0.00330 U	0.00330 UJ	0.00330 U
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 UJ	0.00350 U
DC-SS15-0-0.5	'0-0.5	9/17/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
DSP-1-0-0.5	'0-0.5	10/3/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
DSP-1-4-6	'4-6	11/19/2001	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U
DSP-2-0-0.5	'0-0.5	9/4/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
DSP-3-0-0.5	'0-0.5	9/4/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 UJ	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
DSP-3-2-4	'2-4	9/4/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
DSP-4-0-0.5	'0-0.5	9/4/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U
DSP-4-4-6	'4-6	9/26/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U
DUP-01-010824	'0-0.5	8/24/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
DUP-01-010831	'2-4	8/31/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
DUP-01-010904	'0-0.5	9/4/2001	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 UJ	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U
DUP-01-010905	'8-10	9/5/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
DUP-01-010906	'0-8	9/6/2001	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U
DUP-01-010913	'0-0.5	9/13/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
DUP-01-010917	'0-0.5	9/17/2001	0.00400 U	0.00400 U	0.00400 U	0.144 J	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 UJ	0.00400 U
DUP-01-010926	'1-2	9/26/2001	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U
DUP-01-010927	'4-6	9/27/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
DUP-01-021001	'0-0	10/2/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
DUP-01-08 2201	'1.5-2	8/22/2001	0.00760 U	0.00760 U	0.0150 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.0150 U	0.0150 U	0.0150 U
DUP-01-121001	'0-0	10/12/2001	0.00380 U	0.00380 U	0.00780	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
DUP-01-170402	'0-0	4/17/2002	0.00180 U	0.00180 U	0.00180 U	0.00180 U	0.00180 U	0.00180 U	0.00180 U	0.00180 U	0.00180 U	0.00180 U	0.00180 U
DUP-02-010913	'0-0.5	9/13/2001	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U
DUP-02-010921	'0-1	9/21/2001	0.000870 U	0.000870 U	0.000870 U	0.000870 U	0.000870 U	0.000870 U	0.000870 U	0.000870 U	0.000870 U	0.000870 U	0.000870 U
DUP-02-010926	'4-6	9/26/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 UJ	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
DUP060807	'0-0	6/8/2007	0.000300 U	0.000250 U	0.000370 U	0.000300 U	0.000510 U	0.000280 U	0.000350 U	0.000370 U	0.000360 U	0.000370 U	0.000320 U
DUP-1-010828	'0-0.5	8/28/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U
DUP-1-010921	'0-0.5	9/21/2001	0.000900 U	0.000900 U	0.000900 U	0.000900 U	0.000900 U	0.000900 U	0.000900 U	0.000900 U	0.000900 U	0.000900 U	0.000900 U
DUP110606	'15-17	11/6/2006	0.000370 U	0.000310 U	0.000450 U	0.000360 U	0.000610 U	0.000340 U	0.000420 U	0.000450 U	0.000440 U	0.000450 U	0.000390 U
DUP112006	'16-18	11/20/2006	0.000570 U	0.000480 U	0.000690 U	0.000560 U	0.000950 U	0.000520 U	0.000650 U	0.000690 U	0.000680 U	0.000700 U	0.000610 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP112106	'10-12	11/21/2006	0.000600 U	0.000510 U	0.000740 U	0.000600 U	0.00100 U	0.000550 U	0.000690 U	0.000730 U	0.000730 U	0.000740 U	0.000650 U
DUP-120506	'0-4	12/5/2006	0.000310 U	0.000260 U	0.000370 U	0.000300 U	0.000510 U	0.000280 U	0.000350 U	0.000370 U	0.000370 U	0.000380 U	0.000330 U
DUP-120606	'0-4	12/6/2006	0.000850 U	0.000710 U	0.00100 U	0.000830 U	0.00140 U	0.000770 U	0.000970 U	0.00100 U	0.00100 U	0.00100 U	0.000910 U
DUPE071801	'0-0.5	7/18/2001	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U
EC-1	'0-1	8/21/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
EC-2	'0-1	8/21/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
EC-3	'0-1	8/21/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
EC-4	'0-1	8/21/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
EC-5	'0-1	8/21/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
EC-6	'0-1	8/21/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
EC-7	'0-1	8/21/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
EC-8	'0-1	8/21/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
EC-9	'0-1	8/21/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0212	0.00410 U	0.00410 U	0.00410 U	0.00410 U
ESR-1-0-1	'0-0.5	9/4/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 UJ	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
ESR-1-4-6	'4-6	9/4/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U
HB-101A	'17-17	3/5/2007	0.000340 U	0.000290 U	0.000420 U	0.000330 U	0.000570 U	0.000310 U	0.000390 U	0.000410 U	0.000410 U	0.000420 U	0.000360 U
HB-102A	'0-0	3/13/2007	0.000530 U	0.000440 U	0.000640 U	0.000520 U	0.000880 U	0.000480 U	0.000600 U	0.000640 U	0.000630 U	0.000650 U	0.000560 U
HB-102B	'0-0	3/14/2007	0.000360 U	0.000300 U	0.000440 U	0.000350 U	0.000600 U	0.000330 U	0.000410 U	0.000440 U	0.000430 U	0.000440 U	0.000380 U
HB-102C	'0-0	3/14/2007	0.000330 U	0.000280 U	0.000400 U	0.000320 U	0.000550 U	0.000300 U	0.000380 U	0.000400 U	0.000400 U	0.000410 U	0.000350 U
H-B-103A	'17-17	2/20/2007	0.000470 U	0.000390 U	0.000570 U	0.000460 U	0.000780 U	0.000430 U	0.000540 U	0.000570 U	0.000560 U	0.000580 U	0.000500 U
H-B-104A	'17-17	2/23/2007	0.000370 U	0.000310 U	0.000450 U	0.000360 U	0.000610 U	0.000330 U	0.000420 U	0.000440 U	0.000440 U	0.000450 U	0.000390 U
H-B-104B	'17-17	2/23/2007	0.000340 U	0.000290 U	0.000420 U	0.000340 U	0.000570 U	0.000310 U	0.000390 U	0.000410 U	0.000410 U	0.000420 U	0.000370 U
H-B-104C	'17-17	2/23/2007	0.000370 U	0.000310 U	0.000450 U	0.000370 U	0.000620 U	0.000340 U	0.000430 U	0.000450 U	0.000450 U	0.000460 U	0.000400 U
H-B-104D	'17-17	2/27/2007	0.000340 U	0.000290 U	0.000420 U	0.000340 U	0.000570 U	0.000310 U	0.000390 U	0.000420 U	0.000410 U	0.000420 U	0.000370 U
H-B-104E	'17-17	2/27/2007	0.000340 U	0.000290 U	0.000420 U	0.000340 U	0.000580 U	0.000310 U	0.000390 U	0.000420 U	0.000410 U	0.000420 U	0.000370 U
H-B-105C	'17-17	2/8/2007	0.000330 U	0.000280 U	0.000410 U	0.000330 U	0.000550 U	0.000300 U	0.000380 U	0.000400 U	0.000400 U	0.000410 U	0.000350 U
H-B-105D	'17-17	2/8/2007	0.000360 U	0.000300 U	0.000440 U	0.000350 U	0.000600 U	0.000330 U	0.000410 U	0.000440 U	0.000430 U	0.000440 U	0.000380 U
H-B-105E	'0-0	2/8/2007	0.000350 U	0.000290 U	0.000430 U	0.000350 U	0.000590 U	0.000320 U	0.000400 U	0.000430 U	0.000420 U	0.000430 U	0.000370 U
HB-1A	'6.75-6.75	4/18/2002	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U
HB-3A	'5.25-5.25	4/17/2002	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U
HB-3B	'4.5-4.5	4/17/2002	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U
HB-3C	'4.5-4.5	4/18/2002	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U
HB-3D	'4.5-4.5	4/18/2002	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U
HB-4A	'5.33-5.33	4/19/2002	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HB-5A	'3-3	4/22/2002	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U
HB-7A	'5-5	4/19/2002	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U
HB-8A	'3-3	4/23/2002	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U
HB-8B	'4.83-4.83	4/23/2002	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U
HB-8C	'5.5-5.5	4/23/2002	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
HB-9A	'4.75-4.75	4/24/2002	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U
HF-B1-0-0.5	'0-0.5	9/10/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 UJ	0.00410 U	0.00410 U	0.00410 U	0.00410 UJ	0.00410 U
HF-B1-8-10	'8-10	9/10/2001	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 UJ	0.0120 U	0.0120 U	0.0120 U	0.0120 UJ	0.0120 U
HF-B2-0-0.5	'0-0.5	9/4/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 UJ	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
HF-B2-4-6	'4-6	9/4/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 UJ	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
HF-B3-0-.5	'0-0.5	10/2/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
HF-B3-8-10	'8-10	10/2/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
IB-1-0-2	'0-2	4/8/2002	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 UJ	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 UJ
IB-1-4-6	'4-6	4/8/2002	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 UJ
IB-2-12-14	'12-14	4/8/2002	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 UJ	0.00420 UJ	0.00420 U	0.00420 U	0.00420 U	0.00420 UJ	0.00420 U
IB-2-4-6	'4-6	4/8/2002	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 UJ	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
IB-3-4-6	'4-6	4/8/2002	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00540	0.0183 J	0.00420 U	0.00420 U	0.00420 U	0.00420 U
IB-3-8-10	'8-10	4/8/2002	0.00440 U	0.00440 U	0.00440 U	0.0616 J	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U
LB-101-0-1	'0-1	12/6/2006	0.000320 U	0.000270 U	0.000390 U	0.000310 U	0.000530 U	0.000290 U	0.000360 U	0.000390 U	0.000380 U	0.000390 U	0.000340 U
LB-101-1-3	'1-3	12/6/2006	0.00220 U	0.00180 U	0.00260 U	0.00210 U	0.00360 U	0.00200 U	0.00250 U	0.00260 U	0.00260 U	0.00270 U	0.00230 U
LB-102-0-1	'0-3	12/6/2006	0.000320 U	0.000270 U	0.000400 U	0.000320 U	0.000540 U	0.000300 U	0.000370 U	0.000390 U	0.000390 U	0.000400 U	0.000350 U
LB-102-1-3	'3-7	12/6/2006	0.000330 U	0.000270 U	0.000400 U	0.000320 U	0.000550 U	0.000300 U	0.000370 U	0.000400 U	0.000390 U	0.000400 U	0.000350 U
LB-103-0-1	'0-1	12/6/2006	0.000310 U	0.000260 U	0.000380 U	0.000310 U	0.000520 U	0.000290 U	0.000360 U	0.000380 U	0.000380 U	0.000380 U	0.000330 U
LB-103-5-7	'5-7	12/6/2006	0.000360 U	0.000300 U	0.000440 U	0.000350 U	0.000600 U	0.000330 U	0.000410 U	0.000440 U	0.000430 U	0.000440 U	0.000380 U
LHP-101-0-1	'0-1	12/4/2006	0.000330 U	0.000270 U	0.000400 U	0.000320 U	0.000550 U	0.000300 U	0.00220 NJ	0.000400 U	0.000390 U	0.000400 U	0.000350 U
LHP-101-5-8	'4-8	12/4/2006	0.000400 U	0.000340 U	0.000490 U	0.000400 U	0.000670 U	0.000370 U	0.000460 U	0.000490 U	0.000480 U	0.000500 U	0.000430 U
LHP-102-0-1	'0-1	12/5/2006	0.000330 U	0.000280 U	0.000410 U	0.000330 U	0.000560 U	0.000300 U	0.000380 U	0.000400 U	0.000400 U	0.000410 U	0.000360 U
LHP-102-7-9	'7-9	12/5/2006	0.000410 U	0.000340 U	0.000500 U	0.000400 U	0.000680 U	0.000370 U	0.000470 U	0.000500 U	0.000490 U	0.000500 U	0.000440 U
LHP-103-0-1	'0-1	12/5/2006	0.000330 U	0.000270 U	0.00290 J	0.000320 U	0.000550 U	0.000300 U	0.000370 U	0.000400 U	0.000390 U	0.000400 U	0.000350 U
LHP-103-1-3	'1-3	12/5/2006	0.000360 U	0.000300 U	0.000440 U	0.000350 U	0.000600 U	0.000330 U	0.000410 U	0.000430 U	0.000430 U	0.000440 U	0.000380 U
LHP-104-0-1	'0-1	12/5/2006	0.000310 U	0.000260 U	0.000380 U	0.000300 U	0.000520 U	0.000280 U	0.000350 U	0.000370 U	0.000370 U	0.000380 U	0.000330 U
LHP-104-7-9	'4-8	12/5/2006	0.000340 U	0.000290 U	0.000420 U	0.000330 U	0.000570 U	0.000310 U	0.000390 U	0.000410 U	0.000410 U	0.000420 U	0.000360 U
LHP-105-0-1	'0-1	12/5/2006	0.000310 U	0.000260 U	0.000380 U	0.000300 U	0.000520 U	0.000280 U	0.000350 U	0.000380 U	0.000370 U	0.000380 U	0.000330 U
LHP-105-1-3	'1-3	12/5/2006	0.000310 U	0.000260 U	0.000380 U	0.000300 U	0.000510 U	0.000280 U	0.000350 U	0.000370 U	0.000370 U	0.000380 U	0.000330 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-106-0-1	'0-1	12/4/2006	0.000310 U	0.000260 U	0.000370 U	0.000300 U	0.000510 U	0.000280 U	0.000350 U	0.000370 U	0.000370 U	0.000380 U	0.000330 U
LHP-106-1-3	'1-3	12/4/2006	0.000300 U	0.000250 U	0.000370 U	0.000300 U	0.000510 U	0.000280 U	0.000350 U	0.000370 U	0.000360 U	0.000370 U	0.000320 U
LHP-107-0-1	'0-1	12/5/2006	0.000310 U	0.000260 U	0.000380 U	0.000310 U	0.000530 U	0.000290 U	0.000360 U	0.000380 U	0.000380 U	0.000390 U	0.000340 U
LHP-107-5-7	'4-8	12/5/2006	0.000330 U	0.000280 U	0.000410 U	0.000330 U	0.000550 U	0.000300 U	0.000380 U	0.000400 U	0.000400 U	0.000410 U	0.000350 U
LHP-108-0-1	'0-1	12/6/2006	0.000330 U	0.000280 U	0.00610	0.000320 U	0.000550 U	0.000300 U	0.00200 J	0.000400 U	0.000390 U	0.000400 U	0.000350 U
LHP-108-3-7	'3-7	12/6/2006	0.000350 U	0.000300 U	0.000430 U	0.000350 U	0.000590 U	0.000320 U	0.000400 U	0.000430 U	0.000420 U	0.000430 U	0.000380 U
LHP-109-0-1	'0-1	12/6/2006	0.000340 U	0.000280 U	0.000410 U	0.000330 U	0.000560 U	0.000310 U	0.000390 U	0.000410 U	0.000400 U	0.000410 U	0.000360 U
LHP-109-7-9	'7-9	12/6/2006	0.000400 U	0.000340 U	0.000490 U	0.000400 U	0.000670 U	0.000370 U	0.000460 U	0.000490 U	0.000480 U	0.000490 U	0.000430 U
LHP-110-0-1	'0-1	12/4/2006	0.000330 U	0.000280 U	0.000410 U	0.000330 U	0.000560 U	0.000300 U	0.000380 U	0.000400 U	0.000400 U	0.000410 U	0.000360 U
LHP-111-0-1	'0-1	12/4/2006	0.000320 U	0.000270 U	0.000400 U	0.000320 U	0.000540 U	0.000300 U	0.000370 U	0.000390 U	0.000390 U	0.000400 U	0.000350 U
LHP-112-0-1	'0-1	12/4/2006	0.000330 U	0.000270 U	0.000400 U	0.000320 U	0.000550 U	0.000300 U	0.000370 U	0.000400 U	0.000390 U	0.000400 U	0.000350 U
LHP-113-0-1	'0-1	12/4/2006	0.000310 U	0.000260 U	0.000380 U	0.000310 U	0.000520 U	0.000280 U	0.000360 U	0.000380 U	0.000370 U	0.000380 U	0.000330 U
LHP-114-0-1	'0-1	12/4/2006	0.000320 U	0.000270 U	0.000390 U	0.000320 U	0.000540 U	0.000290 U	0.00340	0.000390 U	0.000390 U	0.000400 U	0.000340 U
LHP-115-0-1	'0-1	12/4/2006	0.000300 U	0.000250 U	0.000370 U	0.000300 U	0.000510 U	0.000280 U	0.000350 U	0.000370 U	0.000360 U	0.000370 U	0.000320 U
LHP-116-0-1	'0-1	12/4/2006	0.000330 U	0.000280 U	0.000400 U	0.000330 U	0.000550 U	0.000300 U	0.000380 U	0.000400 U	0.000400 U	0.000410 U	0.000350 U
LHP-117-0-1	'0-1	12/4/2006	0.000340 U	0.000290 U	0.000420 U	0.000340 U	0.000570 U	0.000310 U	0.000390 U	0.000410 U	0.000410 U	0.000420 U	0.000360 U
LHP-118-0-1	'0-1	12/4/2006	0.000340 U	0.000290 U	0.000420 U	0.000340 U	0.000570 U	0.000310 U	0.0210	0.000410 U	0.000410 U	0.000420 U	0.000360 U
LHP-119-0-1	'0-1	12/4/2006	0.000340 U	0.000280 U	0.000410 U	0.000330 U	0.000560 U	0.000310 U	0.000390 U	0.000410 U	0.000400 U	0.000410 U	0.000360 U
LHP-120-0-1	'0-1	12/4/2006	0.000380 U	0.000320 U	0.000460 U	0.000370 U	0.000630 U	0.000340 U	0.000430 U	0.000460 U	0.000450 U	0.000460 U	0.000400 U
LHP-121-0-1	'0-1	12/6/2006	0.000330 U	0.000280 U	0.000400 U	0.000330 U	0.000550 U	0.000300 U	0.000380 U	0.000400 U	0.000400 U	0.000410 U	0.000350 U
LHP-122-0-1	'0-1	12/6/2006	0.000310 UJ	0.000260 UJ	0.00180 J	0.000310 UJ	0.000530 UJ	0.000290 UJ	0.000360 UJ	0.000380 UJ	0.000380 UJ	0.000390 UJ	0.000340 UJ
LHP-123-0-1	'0-1	12/4/2006	0.000330 U	0.000280 U	0.00670 J	0.000330 U	0.000560 U	0.000300 U	0.000380 U	0.000400 U	0.000400 U	0.000410 U	0.000360 U
LHP-124-.5-2	'0.5-2	10/27/2006	0.000340 U	0.000290 U	0.000420 U	0.000330 U	0.000570 U	0.000310 U	0.00530 J	0.000410 U	0.000410 U	0.000420 U	0.000360 U
LHP-124-10-12	'10-12	10/31/2006	0.000540 U	0.000460 U	0.000660 U	0.000540 U	0.000910 U	0.000500 U	0.000620 U	0.000660 U	0.000650 U	0.000670 U	0.000580 U
LHP-124-2-4	'2-4	10/27/2006	0.000340 U	0.000290 U	0.000420 U	0.000340 U	0.000580 U	0.000320 U	0.000400 U	0.000420 U	0.000410 U	0.000420 U	0.000370 U
LHP-124-28-30	'28-30	10/31/2006	0.000410 U	0.000340 U	0.000500 U	0.000400 U	0.000680 U	0.000370 U	0.000470 U	0.000500 U	0.000490 U	0.000500 U	0.000440 U
LHP-125-.5-2	'0.5-2	10/27/2006	0.000330 U	0.000280 U	0.000410 U	0.000330 U	0.000560 U	0.000310 U	0.00580 J	0.000410 U	0.000400 U	0.000410 U	0.000360 U
LHP-125-10.5-12	'10.5-12	11/1/2006	0.000380 U	0.000320 U	0.000460 U	0.000370 U	0.000630 U	0.000340 U	0.000430 U	0.000460 U	0.000450 U	0.000460 U	0.000400 U
LHP-125-12-14	'12-14	11/1/2006	0.000330 U	0.000280 U	0.000410 U	0.000330 U	0.000560 U	0.000300 U	0.000380 U	0.000400 U	0.000400 U	0.000410 U	0.000360 U
LHP-125-4-6	'4-6	10/27/2006	0.000320 U	0.000270 U	0.000400 U	0.000320 U	0.000540 U	0.000300 U	0.000370 U	0.000390 U	0.000390 U	0.000400 U	0.000350 U
LHP-126-10.5-12	'10.5-12	11/1/2006	0.00140 UJ	0.00120 UJ	0.00170 UJ	0.00140 UJ	0.00230 UJ	0.00130 UJ	0.00160 UJ	0.00170 UJ	0.00170 UJ	0.00170 UJ	0.00150 UJ
LHP-126-14-16	'14-16	11/1/2006	0.000350 U	0.000290 U	0.000420 U	0.000340 U	0.000580 U	0.000320 U	0.000400 U	0.000420 U	0.000420 U	0.000430 U	0.000370 U
LHP-126-2-4	'2-4	10/26/2006	0.000320 U	0.000270 U	0.000400 U	0.000320 U	0.000540 U	0.000290 U	0.000370 U	0.000390 U	0.000390 U	0.000400 U	0.000350 U
LHP-126-8-10	'9-10	10/26/2006	0.000360 U	0.000310 U	0.000440 U	0.000360 U	0.000610 U	0.000330 U	0.000420 U	0.000440 U	0.000440 U	0.000450 U	0.000390 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-127-0-1	'0-1	12/6/2006	0.000310 U	0.000260 U	0.000380 U	0.000310 U	0.000520 U	0.000290 U	0.000360 U	0.000380 U	0.000370 U	0.000380 U	0.000330 U
LHP-127-3-5	'3-5	12/6/2006	0.000910 U	0.000770 U	0.00110 U	0.000900 U	0.00150 U	0.000830 U	0.00100 U	0.00110 U	0.00110 U	0.00110 U	0.000970 U
LHP-128-0-1	'0-4	12/6/2006	0.000840 U	0.000710 U	0.00100 U	0.000830 U	0.00140 U	0.000770 U	0.000970 U	0.00100 U	0.00100 U	0.00100 U	0.000900 U
LHP-128-7-8	'17-17	12/6/2006	0.00120 U	0.00100 U	0.00150 U	0.00120 U	0.00200 U	0.00110 U	0.00140 U	0.00150 U	0.00140 U	0.00150 U	0.00130 U
LP-1-0-0.5	'0-0.5	8/27/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
LP-10-0.5-2	'0.5-2	8/27/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
LP-10-0-0.5	'0-0.5	8/27/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
LP-101-11-13	'11-13	11/2/2006	0.000550 U	0.000460 U	0.000670 U	0.000540 U	0.000910 U	0.000500 U	0.000630 U	0.000660 U	0.000660 U	0.000670 U	0.000580 U
LP-101-14-16	'14-16	11/2/2006	0.000470 U	0.000400 U	0.000580 U	0.000470 U	0.000790 U	0.000430 U	0.000540 U	0.000580 U	0.000570 U	0.000580 U	0.000510 U
LP-101-26-28	'26-28	11/2/2006	0.000340 U	0.000290 U	0.000420 U	0.000340 U	0.000570 U	0.000310 U	0.000390 U	0.000420 U	0.000410 U	0.000420 U	0.000370 U
LP-101-50-52	'50-52	11/2/2006	0.000330 U	0.000280 U	0.000410 U	0.000330 U	0.000560 U	0.000300 U	0.000380 U	0.000400 U	0.000400 U	0.000410 U	0.000360 U
LP-11-0-0.5	'0-0.5	8/27/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
LP-12-0-0.5	'0-0.5	8/27/2001	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U
LP-12-4-6	'4-6	8/27/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
LP-13-0-0.5	'0-0.5	8/24/2001	0.00430 U	0.00560 J	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U
LP-14-0.5-2	'0.5-2	8/24/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
LP-14-0-0.5	'0-0.5	8/24/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
LP-15-0-0.5	'0-0.5	8/24/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
LP-16-0.5-2	'0.5-2	8/27/2001	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U
LP-16-0-0.5	'0-0.5	8/27/2001	0.00370 U	0.00370 U	0.00370 U	0.0445	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
LP-2-0.5-2	'0.5-2	8/28/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U
LP-2-0-0.5	'0-0.5	8/28/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
LP-3-0-0.5	'0-0.5	8/27/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
LP-4 .5-2	'0.5-2	8/21/2001	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 UJ	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U
LP-4 0-.5	'0-0.5	8/21/2001	0.00760 U	0.00760 U	0.00760 U	0.0131	0.00760 UJ	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U
LP-5-0-0.5	'0-0.5	8/27/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
LP-6-0-0.5	'0-0.5	8/27/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
LP-6-4-6	'4-6	8/27/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
LP-7-0-0.5	'0-0.5	8/24/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
LP-8-0-0.5	'0-0.5	8/24/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
LP-8-10-12	'10-12	8/24/2001	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U
LP-9-0-0.5	'0-0.5	8/24/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
MW-11D-12-14	'12-14	12/14/2006	0.000520 U	0.000430 U	0.000630 U	0.000510 U	0.000860 U	0.000470 U	0.000590 U	0.000630 U	0.000620 U	0.000630 U	0.000550 U
MW-11D-14-16	'14-16	12/14/2006	0.000350 U	0.000290 U	0.000430 U	0.000340 U	0.000580 UJ	0.000320 U	0.000400 U	0.000420 U	0.000420 U	0.000430 U	0.000370 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-11D-16-18	'16-18	12/14/2006	0.000350 U	0.000290 U	0.000420 U	0.000340 U	0.000580 UJ	0.000320 U	0.000400 U	0.000420 U	0.000420 U	0.000430 U	0.000370 U
MW-14D-13-15	'13-15	11/14/2006	0.000370 U	0.000310 U	0.000460 U	0.000370 U	0.000620 U	0.000340 U	0.000430 U	0.000450 U	0.000450 U	0.000460 U	0.000400 U
MW-14D-17-19	'17-19	11/14/2006	0.000340 U	0.000290 U	0.000420 U	0.000340 U	0.000570 U	0.000310 U	0.000390 U	0.000410 U	0.000410 U	0.000420 U	0.000370 U
MW-16D-13-15	'13-15	11/17/2006	0.000330 UJ	0.000280 UJ	0.000410 UJ	0.000330 UJ	0.000560 UJ	0.000300 UJ	0.000380 UJ	0.000400 UJ	0.000400 UJ	0.000410 UJ	0.000360 UJ
MW-16D-17-19	'17-19	11/20/2006	0.000340 U	0.000290 U	0.000420 U	0.000330 U	0.000570 U	0.000310 U	0.000390 U	0.000410 U	0.000410 U	0.000420 U	0.000360 U
MW-17D-15-17	'15-17	11/10/2006	0.000370 U	0.000310 U	0.000460 U	0.000370 U	0.000620 U	0.000340 U	0.000430 U	0.000450 U	0.000450 U	0.000460 U	0.000400 U
MW-17D-17-19	'17-19	11/10/2006	0.000340 U	0.000280 U	0.000410 U	0.000330 U	0.000560 U	0.000310 U	0.000390 U	0.000410 U	0.000400 U	0.000410 U	0.000360 U
MW-18D-13-15	'13-15	11/13/2006	0.000360 U	0.000300 U	0.000440 U	0.000350 U	0.000600 U	0.000330 U	0.000410 U	0.000440 U	0.000430 U	0.000440 U	0.000380 U
MW-18D-17-19	'17-19	11/13/2006	0.000340 U	0.000290 U	0.000420 U	0.000330 U	0.000570 U	0.000310 U	0.000390 U	0.000410 U	0.000410 U	0.000420 U	0.000360 U
MW-20D-12-14	'12-14	11/9/2006	0.000350 U	0.000300 U	0.000430 U	0.000350 U	0.000590 U	0.000320 U	0.000410 U	0.000430 U	0.000430 U	0.000440 U	0.000380 U
MW-20D-32-34	'32-32.9	11/10/2006	0.000340 U	0.000280 U	0.000410 U	0.000330 U	0.000560 U	0.000310 U	0.000380 U	0.000410 U	0.000400 U	0.000410 U	0.000360 U
MW-20D-36-38	'36-38	11/10/2006	0.000340 U	0.000290 U	0.000420 U	0.000340 U	0.000570 U	0.000310 U	0.000390 U	0.000410 U	0.000410 U	0.000420 U	0.000370 U
MW-21D-13-15	'13-13.7	11/16/2006	0.000370 U	0.000310 U	0.000450 U	0.000360 U	0.000610 U	0.000340 U	0.000420 U	0.000450 U	0.000440 U	0.000450 U	0.000390 U
MW-21D-15-17	'15-17	11/16/2006	0.000340 U	0.000290 U	0.000420 U	0.000340 U	0.000570 U	0.000310 U	0.000390 U	0.000420 U	0.000410 U	0.000420 U	0.000370 U
MW-23D-15-17	'15-16	11/15/2006	0.000360 U	0.000300 U	0.000440 U	0.000350 U	0.000600 U	0.000330 U	0.000410 U	0.000430 U	0.000430 U	0.000440 U	0.000380 U
MW-23D-37-39	'37-37.9	11/15/2006	0.000330 U	0.000280 U	0.000400 U	0.000320 U	0.000550 U	0.000300 U	0.000380 U	0.000400 U	0.000390 U	0.000400 U	0.000350 U
MW-25D-10-12	'10-12	11/21/2006	0.000620 U	0.000520 U	0.000760 U	0.000610 U	0.00100 U	0.000570 U	0.000710 U	0.000750 U	0.000750 U	0.000760 U	0.000660 U
MW-25D-33-35	'33-35	12/18/2006	0.000370 U	0.000310 U	0.000460 U	0.000370 U	0.000620 U	0.000340 U	0.000430 U	0.000450 U	0.000450 U	0.000460 U	0.000400 U
MW-26S-8-10	'8-10	10/26/2006	0.000390 U	0.000330 U	0.000470 U	0.000380 U	0.000650 U	0.000350 U	0.000440 U	0.000470 U	0.000470 U	0.000480 U	0.000410 U
MW-6D-0-2	'0-2	11/8/2006	0.000330 U	0.000280 U	0.000400 U	0.000320 U	0.000550 U	0.000300 U	0.000380 U	0.000400 U	0.000390 U	0.000400 U	0.000350 U
MW-6D-12-14	'12-14	11/8/2006	0.000760 U	0.000640 U	0.000940 U	0.000750 U	0.00130 U	0.000700 U	0.000880 U	0.000930 U	0.000920 U	0.000940 U	0.000820 U
MW-6D-16-18	'16-18	11/20/2006	0.000530 U	0.000450 U	0.000650 U	0.000520 U	0.000890 U	0.000480 U	0.000610 U	0.000640 U	0.000640 U	0.000650 U	0.000570 U
MW-6D-30-32	'30-32	11/21/2006	0.000350 U	0.000290 U	0.000420 U	0.000340 U	0.000580 U	0.000320 U	0.000400 U	0.000420 U	0.000410 U	0.000430 U	0.000370 U
PCA-1-0-.5	'0-2	7/17/2001	0.000710 U	0.000710 U	0.00130	0.000710 U	0.000710 U	0.000710 U	0.000900	0.000710 U	0.00120	0.000710 U	0.000710 U
PCA-1-4-6	'4-6	7/17/2001	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U
PCA-2-0-.5	'0-0.5	7/17/2001	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U
PCA-3-0-0.5	'0-0.5	9/13/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
PCA-3-4-6	'4-6	9/13/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
PCA-4-0-0.5	'0-0.5	9/13/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
PCA-4-4-6	'4-6	9/26/2001	0.00460 UJ	0.00460 UJ	0.00460 UJ	0.00460 UJ	0.00460 UJ	0.00460 UJ	0.00460 UJ	0.00460 UJ	0.00460 UJ	0.00460 UJ	0.00460 UJ
PCA-5-0.5-2	'0.5-2	9/7/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
PCA-5-0-0.5	'0-0.5	9/7/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
PCA-6-0-0.5	'0-0.5	9/7/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
RR-1 0-0.5	'0-0.5	8/22/2001	0.0180 U	0.0180 U	0.0370 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0370 U	0.0370 U	0.0370 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-1 14-16	'14-16	8/22/2001	0.0980 U	0.0980 U	0.200 U	0.0980 U	0.0980 U	0.0980 U	0.0980 U	0.0980 U	0.200 U	0.200 U	0.200 U
RR-10 0-.5	'0-0.5	10/12/2001	0.00370 UJ	0.00370 UJ	0.00370 UJ	0.00370 UJ	0.00370 UJ	0.00370 UJ	0.00370 UJ	0.00370 UJ	0.00370 UJ	0.00370 UJ	0.00370 UJ
RR-11 0-.5	'0-0.5	10/12/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
RR-12 0-.5	'0-0.5	10/12/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
RR-2-0-0.5	'0-0.5	9/13/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
RR-2-8-10	'8-10	9/13/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U
RR-3-0-0.5	'0-0.5	9/13/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
RR-4-0-0.5	'0-0.5	9/10/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 UJ	0.00380 U	0.00380 U	0.00380 U	0.00380 UJ	0.00380 U
RR-4-6-8	'6-8	9/13/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
RR-5-0-0.5	'0-0.5	9/10/2001	0.00320 U	0.00320 U	0.00320 U	0.00320 U	0.00320 U	0.00320 UJ	0.00320 U	0.00320 U	0.00320 U	0.00320 UJ	0.00320 U
RR-6-0-0.5	'0-0.5	9/10/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 UJ	0.00380 U	0.00380 U	0.00380 U	0.00380 UJ	0.00380 U
RR-6-8-10	'8-10	9/10/2001	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 UJ	0.00380 U	0.00380 U	0.00380 U	0.00380 UJ	0.00380 U
RR-7-0-0.5	'0-0.5	9/10/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 UJ	0.00400 U	0.00400 U	0.00400 U	0.00400 UJ	0.00400 U
RR-8-0-0.5	'0-0.5	9/26/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 UJ	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U
RR-8-6-8	'6-8	9/26/2001	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 UJ	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U
RR-9 0-.5	'0-0.5	10/12/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
SC-1	'0-1	8/21/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U
SC-2	'0-1	8/22/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
SC-3	'0-1	8/22/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
SILO-B1-6-8	'6-8	9/6/2001	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
SILO-B3-0-0.5	'0-0.5	9/6/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
SILO-B3-6-8	'6-8	9/6/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
SILO-B4-0-0.5	'0-0.5	9/6/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
SPR-1-0-0.5	'0-0.5	9/5/2001	0.00380 U	0.00380 U	0.00970	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U
SPR-1-8-10	'8-10	9/5/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U
SPR-2A-8-10	'8-10	7/19/2001	0.000960 U	0.000960 U	0.000960 U	0.000960 U	0.000960 U	0.000960 U	0.000960 U	0.000960 U	0.000960 U	0.000960 U	0.000960 U
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U
SPR-2B-10-12	'10-12	7/19/2001	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.00100 U	0.00100 UJ
SPR-3 0-.5	'0-0.5	8/21/2001	0.000750 U	0.000750 U	0.000750 U	0.00780	0.000750 UJ	0.000750 U	0.000750 U	0.000750 U	0.000750 U	0.000750 U	0.000750 U
SPR-3 4-6	'4-6	8/21/2001	0.00780 U	0.00780 U	0.00780 U	0.00780 U	0.00780 UJ	0.00780 U	0.00780 U	0.00780 U	0.00780 U	0.00780 U	0.00780 U
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SPR-4A-8-10	'8-10	7/19/2001	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.0190 U	0.0190 U	0.0380 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0380 U	0.0380 U	0.0380 U
SPR-4B-4-6	'4-6	8/23/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.00390 U	0.0148	0.00390 U	0.0124	0.0122	0.00670	0.0881	0.00390 U	0.00390 U	0.00390 U	0.00390 U
SPR-4C-4-6	'4-6	8/23/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U
SPR-5-0-0.5	'0-0.5	9/5/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
SPR-5-2-4	'2-4	9/5/2001	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U
SPR-6-0.5-2	'0.5-2	9/13/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
SPR-6-0-0.5	'0-0.5	9/13/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
SR-1-0-.5	'0-0.5	7/17/2001	0.000710 U	0.000710 U	0.000710 U	0.000710 U	0.000710 U	0.000710 U	0.000710 U	0.000710 U	0.000710 U	0.000710 U	0.000710 U
SR-2-0-.5	'0-0.5	7/17/2001	0.000670 U	0.000670 U	0.000670 U	0.000670 U	0.000670 U	0.000670 U	0.000670 U	0.000670 U	0.000670 U	0.000670 U	0.000670 U
ST-1-0-0.5	'0-0.5	9/5/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
ST-2-0-0.5	'0-0.5	9/5/2001	0.00390 U	0.00390 U	0.0131 J	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
ST-3-0-0.5	'0-0.5	9/4/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
ST-3-4-6	'4-6	9/4/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U
TES-1-0-1	'0-1	12/5/2006	0.000340 U	0.000280 U	0.000410 U	0.000330 U	0.000560 U	0.000310 U	0.000390 U	0.000410 U	0.000400 U	0.000410 U	0.000360 U
TES-2-0-1	'0-1	12/4/2006	0.000360 U	0.000300 U	0.000440 U	0.000360 U	0.000610 U	0.000330 U	0.000410 U	0.000440 U	0.000430 U	0.000450 U	0.000390 U
TES-3-0-1	'0-1	12/4/2006	0.000360 U	0.000310 U	0.000450 U	0.000360 U	0.000610 U	0.000330 U	0.000420 U	0.000440 U	0.000440 U	0.000450 U	0.000390 U
TES-4-0-1	'0-1	12/5/2006	0.000320 U	0.000270 U	0.000390 U	0.000320 U	0.000530 U	0.000290 U	0.000370 U	0.000390 U	0.000380 U	0.000390 U	0.000340 U
TLN-1 .5-2	'0.5-2	8/20/2001	0.0200 U	0.0200 U	0.0400 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0400 U	0.0400 U	0.0400 U
TLN-1 0-.5	'0-0.5	8/20/2001	0.100 U	0.100 U	0.210 U	0.400 U	0.100 U	0.100 U	0.100 U	0.100 U	0.210 U	0.210 U	0.210 U
TLN-2-0-0.5	'0-0.5	7/19/2001	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U
TLN-3-0-.5	'0-0.5	7/17/2001	0.000720 U	0.000720 U	0.000720 U	0.000720 U	0.000720 U	0.000720 U	0.000720 U	0.000720 U	0.000720 U	0.000720 U	0.000720 U
TLN-3-2-4	'2-4	7/17/2001	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.00600	0.000760 U	0.000760 U
TLN-4 0-.5	'0-0.5	8/20/2001	0.0180 U	0.0180 U	0.0360 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0360 U	0.0360 U	0.0360 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.0170 U	0.0170 U	0.0340 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0340 U	0.0340 U	0.0340 U
TLN-5 .5-2	'0.5-2	8/20/2001	0.0180 U	0.0180 U	0.0360 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0360 U	0.0360 U	0.0360 U
TLN-5 0-.5	'0-0.5	8/20/2001	0.00700 U	0.00700 U	0.0140 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.0140 U	0.0140 U	0.0140 U
TLN-5-4-6	'4-6	8/30/2001	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
TLN-6 0-.5	'0-0.5	8/20/2001	0.0180 U	0.0180 U	0.0370 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0370 U	0.0370 U	0.0370 U
TLS-10 0-.5	'0-0.5	8/21/2001	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 UJ	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U
TLS-10 8-10	'8-10	8/21/2001	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.000910 UJ	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.000910 U
TLS-1-0-0.5	'0-0.5	9/5/2001	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U
TLS-11-0-0.5	'0-0.5	9/7/2001	0.000770 U	0.000770 U	0.000770 U	0.000770 U	0.000770 U	0.000770 U	0.000770 U	0.000770 U	0.000770 U	0.000770 U	0.000770 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-2-0-0.5	'0-0.5	9/7/2001	0.000750 U	0.000750 U	0.000750 U	0.000750 U	0.000750 U	0.000750 U	0.000750 U	0.000750 U	0.000750 U	0.000750 U	0.000750 U
TLS-2-6-8	'6-8	9/7/2001	0.00570 UJ	0.00570 UJ	0.00570 UJ	0.00570 UJ	0.00570 UJ	0.00570 UJ	0.00570 UJ	0.00570 UJ	0.00570 UJ	0.00570 UJ	0.00570 UJ
TLS-3 0-.5	'0-0.5	8/21/2001	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 UJ	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U
TLS-4-0-0.5	'0-0.5	9/7/2001	0.00340 U	0.00340 U	0.00340 U	0.00340 U	0.00340 U	0.00340 U	0.00340 U	0.00340 U	0.00340 U	0.00340 U	0.00340 U
TLS-4-8-10	'8-10	9/7/2001	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U
TLS-5 0-0.5	'0-0.5	8/21/2001	0.0880 U	0.0880 U	0.180 U	0.0880 U	0.0880 U	0.0880 U	0.0880 U	0.0880 U	0.180 U	0.180 U	0.180 U
TLS-5-8-10	'8-10	9/26/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 UJ	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U
TLS-6 0-.5	'0-0.5	8/21/2001	0.00730 U	0.00730 U	0.00730 U	0.00730 U	0.00730 UJ	0.00730 U	0.00730 U	0.00730 U	0.00730 U	0.00730 U	0.00730 U
TLS-6-3-5	'3-5	9/26/2001	0.00420 UJ	0.00420 UJ	0.00420 UJ	0.00420 UJ	0.00420 UJ	0.00420 UJ	0.00420 UJ	0.00420 UJ	0.00420 UJ	0.00420 UJ	0.00420 UJ
TLS-7 0-.5	'0-0.5	8/21/2001	0.00730 U	0.00730 U	0.00730 U	0.0888 J	0.00730 UJ	0.00730 U	0.00730 U	0.00730 U	0.00730 U	0.0251 J	0.00730 U
TLS-8-0-0.5	'0-0.5	9/7/2001	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U
TLS-8-6-8	'6-8	9/7/2001	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U
TLS-9 0-.5	'0-0.5	8/21/2001	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 UJ	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U
TP-105	'0-0	6/8/2007	0.000290 U	0.000250 U	0.000360 U	0.000290 U	0.000490 U	0.000270 U	0.000340 U	0.000360 U	0.000350 U	0.000360 U	0.000320 U
TP-105A	'0-0	6/8/2007	0.000290 U	0.000250 U	0.000360 U	0.000290 U	0.000490 U	0.000270 U	0.000340 U	0.000360 U	0.000350 U	0.000360 U	0.000310 U
TP-106-A	'0-0	6/8/2007	0.000300 U	0.000250 U	0.000360 U	0.000290 U	0.000500 U	0.000270 U	0.000340 U	0.000360 U	0.000360 U	0.000370 U	0.000320 U
TP-106-B	'0-0	6/8/2007	0.000290 U	0.000240 U	0.000360 U	0.000290 U	0.000490 U	0.000270 U	0.000330 U	0.000350 U	0.000350 U	0.000360 U	0.000310 U
WWT-1-0-0.5	'0-0.5	7/19/2001	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U
WWT-101-15-17	'15-17	11/6/2006	0.000360 U	0.000310 U	0.000440 U	0.000360 U	0.000610 U	0.000330 U	0.000420 U	0.000440 U	0.000440 U	0.000450 U	0.000390 U
WWT-101-21-23	'21-23	11/6/2006	0.000350 U	0.000290 U	0.000420 U	0.000340 U	0.000580 U	0.000320 U	0.000400 U	0.000420 U	0.000420 U	0.000430 U	0.000370 U
WWT-1-12-14	'12-14	8/23/2001	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U
WWT-2-0-0.5	'0-0.5	8/23/2001	0.00350 U	0.00350 U	0.0216 J	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U
WWT-2-12-14	'12-14	8/23/2001	0.00420 U	0.00420 U	0.0306 J	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U
WWT-3-0-0.5	'0-0.5	8/23/2001	0.00360 U	0.00360 U	0.0232 J	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U
WWT-3-12-14	'12-14	8/23/2001	0.00390 U	0.00390 U	0.0468 J	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS				340		0.3	0.7	5700	13	9	8	3
12K-B1-0.5-2	'0.5-2	9/6/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.0510 U
12K-B1-0-0.5	'0-0.5	9/6/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.112 J	0.00390 U	0.00390 U	0.00390 U	0.0490 U
12K-B2-0.5-2	'0.5-2	9/6/2001	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.0540 U
12K-B2-0-0.5	'0-0.5	9/6/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.0174	0.00390 U	0.00390 U	0.00390 U	0.0490 U
150K-1-0.5-2	'0.5-2	9/10/2001	0.00950 UJ	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00950 U	0.00380 U	0.00380 U	0.00380 U	0.0480 U
150K-1-0-0.5	'0-0.5	9/10/2001	0.00980 UJ	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.0477	0.00390 U	0.00390 U	0.0490 U
230-B1-0.5	'0-0.5	10/2/2001	0.0110 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.0110 U	0.0207 J	0.00780 J	0.00440 U	0.0560 U
230-B10-0-0.5	'0-0.5	8/30/2001	0.0130 UJ	0.00530 UJ	0.00530 UJ	0.00530 UJ	0.00530 UJ	0.0130 UJ	0.00530 UJ	0.00530 UJ	0.00530 UJ	0.0660 UJ
230-B10-1.5-2	'1.5-2	8/30/2001	0.0110 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.0110 U	0.00460 U	0.00600	0.00700	0.0570 U
230-B11-0-0.5	'0-0.5	8/30/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
230-B11-1.5-2	'1.5-2	8/30/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 U	0.00860	0.00800	0.00720	0.0500 U
230-B1-4-6	'4-6	10/2/2001	0.0110 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.0110 U	0.00440 U	0.00440 U	0.00440 U	0.0550 U
230-B2-0-0.5	'0-0.5	8/30/2001	0.0110 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0110 U	0.00420 U	0.00420 U	0.0491 J	0.0530 U
230-B2-1.5-2	'1.5-2	8/30/2001	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.0450 U
230-B3-0-0.5	'0-0.5	8/30/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.0500 U
230-B3-1.5-2	'1.5-2	8/30/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.0500 U
230-B4-0-0.5	'0-0.5	8/30/2001	0.00960 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00960 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.0480 UJ
230-B4-1.5-2	'1.5-2	8/30/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.0500 U
230-B5-0-0.5	'0-0.5	9/13/2001	0.00940 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00940 U	0.0628	0.00380 U	0.00380 U	0.0470 U
230-B5-1.5-2	'1.5-2	9/13/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
230-B6 0-0.5	'0-0.5	8/22/2001	0.0370 U	0.0370 U	0.0370 U	0.0190 U	0.0190 U	0.0740 U	0.0370 U	0.0277 J	0.0370 U	1.90 U
230-B6 1.5-2	'1.5-2	8/22/2001	0.0150 U	0.0150 U	0.0150 U	0.00750 U	0.00750 U	0.0300 U	0.0150 U	0.0150 U	0.0150 U	0.750 U
230-B7 0-0.5	'0-0.5	8/22/2001	0.0820 U	0.0820 U	0.0820 U	0.0410 U	0.0410 U	0.160 U	0.0820 U	0.0820 U	0.0820 U	4.10 U
230-B7 1.5-2	'1.5-2	8/22/2001	0.0150 U	0.0150 U	0.0150 U	0.00770 U	0.00770 U	0.0310 U	0.00770 J	0.00730 J	0.00500 J	0.770 U
230-B8 1.5-2	'1.5-2	8/22/2001	0.0400 U	0.0400 U	0.0400 U	0.0200 U	0.0200 U	0.0800 U	0.0400 U	0.0165 J	0.0400 U	2.00 U
230-B9 0-0.5	'0-0.5	8/22/2001	0.0140 U	0.0140 U	0.0140 U	0.00720 U	0.00720 U	0.0290 U	0.0140 U	0.0140 U	0.0140 U	0.720 U
230-B9 0-0.5	'0-0.5	8/22/2001	0.0730 U	0.0730 U	0.0730 U	0.0370 U	0.0370 U	0.150 U	0.0730 U	0.0730 U	0.0730 U	3.70 U
230-B9 1.5-2	'1.5-2	8/22/2001	0.00370 U	0.00370 U	0.00370 U	0.00180 U	0.00180 U	0.00740 U	0.00370 U	0.00370 U	0.00370 U	0.180 U
231-B1-0-0.5	'0-0.5	10/5/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.0510 U
231-B10-0-0.5	'0-0.5	9/17/2001	0.00940 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00940 U	0.00370 U	0.00370 U	0.00370 U	0.0470 U
231-B11-0-0.5	'0-0.5	9/19/2001	0.0190 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.0190 U	0.00760 U	0.00760 U	0.00760 U	0.0960 U
231-B11-8-10	'8-10	9/19/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 U	0.00400 U	0.00500	0.00400 U	0.0500 U
231-B12-0-0.5	'0-0.5	9/17/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.0460 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B13-0-0.5	'0-0.5	9/19/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.112 J	0.00400 U	0.00400 U	0.00400 U	0.0500 U
231-B13-8-10	'9-10	9/27/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 UJ	0.00410 U	0.00410 U	0.00410 UJ	0.0510 U
231-B14-0-0.5	'0-0.5	9/19/2001	0.00960 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00960 U	0.00390 U	0.00390 U	0.00390 U	0.0480 U
231-B2-0.5-2	'0.5-2	8/22/2001	0.0740 U	0.0740 U	0.0740 U	0.0370 U	0.0370 U	0.150 U	0.0740 U	0.0740 U	0.0740 U	3.70 U
231-B2-0-0.5	'0-0.5	8/22/2001	0.200 U	0.200 U	0.200 U	0.0980 U	0.0980 U	0.390 U	0.200 U	0.200 U	0.200 U	9.80 U
231-B3-0-0.5	'0-0.5	8/22/2001	0.390 U	0.390 U	0.390 U	0.200 U	0.200 U	0.790 U	0.390 U	0.289 J	0.390 U	20.0 U
231-B4-0-0.5	'0-0.5	8/30/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.0510 U
231-B4-6-8	'6-8	9/27/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
231-B5-0.5-2	'0.5-2	9/19/2001	0.00960 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00960 U	0.00380 U	0.00380 U	0.00380 U	0.0480 U
231-B6-0-0.5	'0-0.5	9/27/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.0510 U
231-B6-4-6	'4-6	9/27/2001	0.00980 UJ	0.00390 UJ	0.00390 UJ	0.00390 UJ	0.00390 UJ	0.00980 UJ	0.00390 UJ	0.00390 UJ	0.00390 UJ	0.0490 UJ
231-B7-0-0.5	'0-0.5	9/13/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.0520 U
231-B8-0-0.5	'0-0.5	9/27/2001	0.0220 UJ	0.00860 UJ	0.00860 UJ	0.00860 UJ	0.00860 UJ	0.0220 UJ	0.00860 UJ	0.00860 UJ	0.00860 UJ	0.110 UJ
231-B8-8-10	'8-10	9/27/2001	0.0410 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0410 U	0.0160 U	0.0703	0.0160 U	0.210 U
231-B9-0.5-2	'0.5-2	9/27/2001	0.0120 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.0120 UJ	0.00480 U	0.00480 U	0.0470 J	0.0600 U
231-B9-0-0.5	'0-0.5	9/27/2001	0.0130 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.0130 UJ	0.00520 U	0.00520 U	1.46 J	0.0640 U
240-1-0-0.5	'0-0.5	9/26/2001	0.0120 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.0120 U	0.00460 U	0.00460 U	0.00460 U	0.0580 U
240-1-8-10	'8-10	10/1/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
5K-B1-0-0.5	'0-0.5	10/1/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
5K-B2-0-0.5	'0-0.5	8/31/2001	0.00870 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00870 U	0.00350 U	0.00350 U	0.00350 U	0.0440 U
5K-B2-8-10	'8-10	8/31/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.0520 U
5K-B3-0-0.5	'0-0.5	9/26/2001	0.00950 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00950 U	0.00380 U	0.00380 U	0.00380 U	0.0480 U
5K-B4-0-0.5	'0-0.5	10/1/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.0510 U
5K-B4-4-6	'4-6	10/1/2001	0.0120 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.0120 U	0.00460 U	0.00460 U	0.00460 U	0.0580 U
5K-B5-0-0.5	'0-0.5	8/31/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
5K-B5-4-6	'4-6	9/26/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.0510 U
AB-1-0-0.5	'0-0.5	9/4/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 UJ	0.00390 U	0.00390 U	0.00390 U	0.0490 U
AB-2-0.5-2	'0.5-2	9/4/2001	0.0110 U	0.00450 U	0.00450 U	0.00450 U	0.00450 U	0.0110 UJ	0.00450 U	0.00450 U	0.00450 UJ	0.0560 U
AB-2-0-0.5	'0-0.5	9/4/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 UJ	0.00390 U	0.00390 U	0.00390 UJ	0.0490 U
ADN-1-0-0.5	'0-0.5	9/5/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 U	0.0833	0.00420 U	0.00420 U	0.0520 U
ADN-1-8-10	'8-10	9/5/2001	0.0130 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.0130 U	0.0199 J	0.00520 U	0.00520 U	0.0640 U
ADN-2-0-0.5	'0-0.5	9/5/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.0120	0.0510 U
ADN-2-10-11	'10-11	9/27/2001	0.00960 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00960 U	0.00380 U	0.00380 U	0.00380 U	0.0480 U
ADS-1-0-.5	'0-0.5	7/17/2001	0.00180 U	0.000730 U	0.000740	0.000730 U	0.000730 U	0.0324	0.000730 U	0.0200	0.0812	0.00920 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADS-10-0-0.5	'0-2	7/18/2001	0.00200 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.00200 U	0.000790 UJ	0.0278 J	0.182	0.00990 U
ADS-101-0-1	'0-1	12/5/2006	0.000420 U	0.000390 U	0.000420 U	0.000430 U	0.000400 U	0.000510 U	0.0134	0.00540	0.00360 NJ	0.00740 U
ADS-101-1-3	'1-3	12/5/2006	0.000410 U	0.000380 U	0.000410 U	0.000420 U	0.000390 U	0.0108	0.0173	0.00420	0.00610 J	0.00720 U
ADS-102-0-1.5	'0-2	12/5/2006	0.000410 U	0.000370 U	0.000400 U	0.000410 U	0.000380 U	0.000490 U	0.0135	0.0150	0.0397	0.00700 U
ADS-102-7-8	'4-8	12/5/2006	0.000440 U	0.000400 U	0.000430 U	0.000440 U	0.000420 U	0.000530 U	0.000390 U	0.000400 U	0.000490 U	0.00760 U
ADS-10-4-6	'4-6	7/18/2001	0.00240 U	0.000940 U	0.000940 U	0.000940 U	0.000940 U	0.00240 U	0.000940 U	0.000940 U	0.0214	0.0120 U
ADS-11-0-0.5	'0-2	7/18/2001	0.00190 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.00190 U	0.000760 U	0.0202 J	0.148 J	0.00940 U
ADS-12-0.5-2	'0.5-2	7/18/2001	0.00230 U	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.00230 U	0.0106	0.000910 U	0.0829	0.0110 U
ADS-12-0-0.5	'0-0.5	7/18/2001	0.00190 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.00190 U	0.00230	0.000780 U	0.0179	0.00970 U
ADS-2-0-0.5	'0-0.5	7/18/2001	0.00200 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.00200 U	0.000810 U	0.000810 U	0.180	0.0100 U
ADS-2-4-6	'4-6	7/18/2001	0.00200 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.00200 U	0.000810 U	0.000810 U	0.278	0.0100 U
ADS-3-0-0.5	'0-0.5	7/18/2001	0.00180 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.00180 U	0.000730 U	0.000730 U	0.274	0.00910 U
ADS-4-0-0.5	'0-2	7/18/2001	0.00180 U	0.000730 U	0.0159 J	0.000730 U	0.000730 U	0.00180 U	0.0117	0.000730 U	0.181 J	0.00920 U
ADS-4-12-14	'12-14	7/18/2001	0.00210 U	0.000850 U	0.00870 J	0.000850 U	0.000850 U	0.00210 U	0.000850 U	0.000850 U	0.0532 J	0.0110 U
ADS-5-0-0.5	'0-0.5	7/18/2001	0.00190 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.00190 U	0.000780 U	0.000780 U	0.000780 U	0.00970 U
ADS-5-4-6	'4-6	9/27/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 UJ	0.00400 U	0.00400 U	0.00400 UJ	0.0500 U
ADS-6-0.5-2	'0.5-2	7/18/2001	0.00200 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.00200 U	0.000820 U	0.000820 U	0.000820 U	0.0100 U
ADS-6-0-0.5	'0-0.5	7/18/2001	0.00190 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.00190 U	0.000780 U	0.000780 U	0.000780 U	0.00970 U
ADS-7-0-.5	'0-0.5	7/17/2001	0.00180 U	0.000700 U	0.000700 U	0.000700 U	0.000700 U	0.00180 U	0.000700 U	0.000700 U	0.000700 U	0.00880 U
ADS-8-0-0.5	'0-0.5	7/18/2001	0.00200 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.00200 U	0.000790 U	0.000790 U	0.000790 U	0.00980 U
ADS-8-4-6	'4-6	7/18/2001	0.00210 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.00210 U	0.000850 U	0.000850 U	0.000850 U	0.0110 U
ADS-9-0-0.5	'0-0.5	7/18/2001	0.00210 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.00210 U	0.000850 U	0.000850 U	0.114	0.0110 U
BLIND DUP	'0-0	8/21/2001	0.00880 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00880 U	0.00350 U	0.00350 U	0.00440	0.0440 U
BSL-10-0-1	'0-1	9/21/2001	0.00260 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.0224	0.00100 U	0.0616	0.0307	0.0130 U
BSL-1-0-1	'0-1	9/20/2001	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0205	0.00430 U	0.0200	0.0383 J	0.0530 U
BSL-11-0-1	'0-1	9/26/2001	0.0120 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.0120 U	0.00520	0.00500 U	0.00500 U	0.0620 U
BSL-12-0-1	'0-1	9/26/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.0103	0.00410 U	0.00410 U	0.0510 U
BSL-1-4-6	'4-6	9/20/2001	0.0130 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.0130 U	0.00530 U	0.00530 U	0.00530 UJ	0.0660 U
BSL-2-0-1	'0-1	9/21/2001	0.00250 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00250 U	0.00100 U	0.00100 U	0.00260	0.0120 U
BSL-3-0-0.5	'0-0.5	9/20/2001	0.00940 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00940 U	0.00370 U	0.00370 U	0.00370 UJ	0.0470 U
BSL-4-0-1	'0-0.5	9/21/2001	0.00220 U	0.000890 U	0.000890 U	0.000890 U	0.000890 U	0.00220 U	0.000890 U	0.000890 U	0.000890 U	0.0110 U
BSL-4-4-6	'4-6	9/21/2001	0.00480 U	0.00190 U	0.00190 U	0.00190 U	0.00190 U	0.00480 U	0.00190 U	0.00190 U	0.00190 U	0.0240 U
BSL-5-0-.5	'0-0.5	9/21/2001	0.00190 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.00190 U	0.000760 U	0.000760 U	0.000760 U	0.00950 U
BSL-6-0-1	'0-1	9/26/2001	0.0140 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.0140 U	0.00550 U	0.00550 U	0.00550 U	0.0680 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-6-1-2	'1-2	9/26/2001	0.0170 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.0170 U	0.00680 U	0.00680 U	0.00680 U	0.0850 U
BSL-7-0-.5	'0-0.5	9/21/2001	0.00640 U	0.00260 U	0.00260 U	0.00260 U	0.00260 U	0.00640 U	0.00260 U	0.00260 U	0.00260 U	0.0320 U
BSL-8-0-1	'0-1	9/26/2001	0.0140 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.0140 U	0.00550 U	0.00550 U	0.00550 U	0.0690 U
BSL-9-.5-2	'0.5-2	9/21/2001	0.00310 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00310 U	0.00120 U	0.00470	0.00320	0.0160 U
BSL-9-0-.5	'0-0.5	9/21/2001	0.00200 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.00200 U	0.000800 U	0.000800 U	0.000800 U	0.0100 U
BT-B1-0-0.5	'0-0.5	9/18/2001	0.00940 UJ	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00940 U	0.00380 U	0.00380 U	0.00380 U	0.0470 U
BT-B2-0.5-2	'0.5-2	9/18/2001	0.0100 UJ	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.0500 U
BT-B2-0-0.5	'0-0.5	9/18/2001	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.0540 U
BT-B3-0-0.5	'0-0.5	9/18/2001	0.00870 UJ	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00870 U	0.0375 J	0.106 J	0.115 J	0.0440 U
BT-B4-0.5-2	'0.5-2	8/30/2001	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.0480 U
BT-B4-0-0.5	'0-0.5	8/30/2001	0.00880 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00880 U	0.00350 U	0.00350 U	0.00350 U	0.0440 U
BT-B5-0-.5	'0-0.5	10/2/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.0365 J	0.0453 J	0.00410 U	0.0520 U
BT-B6-0.5-2	'0.5-2	9/17/2001	0.0120 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.0120 U	0.00460 U	0.0193 J	0.00460 U	0.0580 U
BT-B6-0-0.5	'0-0.5	9/17/2001	0.00930 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00930 U	0.00370 U	0.00370 U	0.00370 U	0.0460 U
CF-1-0-0.5	'0-0.5	8/31/2001	0.00910 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00910 U	0.00360 U	0.00360 U	0.00360 U	0.0460 U
CF-1-2-4	'2-4	8/31/2001	0.00940 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00940 U	0.0116 J	0.00370 U	0.00370 U	0.0470 U
CF-2-0-0.5	'0-0.5	8/28/2001	0.0110 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.0110 U	0.00460 U	0.00460 U	0.0146 J	0.0570 U
CF-3-0.5-2	'0.5-2	8/28/2001	0.0180 U	0.00710 U	0.00710 U	0.00710 U	0.00710 U	0.0180 UJ	0.00710 U	0.00710 U	0.00710 UJ	0.0880 U
CF-3-0-0.5	'0-0.5	8/28/2001	0.0140 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.0140 U	0.00550 U	0.00550 U	0.0204 J	0.0690 U
CF-4-0-0.5	'0-0.5	8/28/2001	0.0120 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.0120 UJ	0.00470 U	0.00850 J	0.0358 J	0.0590 U
CF-5-0-0.5	'0-0.5	8/28/2001	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.0480 U
CF-5-4-6	'4-6	8/28/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 U	0.00420 U	0.00420 U	0.0212	0.0520 U
CF-6-0-0.5	'0-0.5	8/28/2001	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.0540 U
CF-7-0-0.5	'0-0.5	8/28/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 UJ	0.00420 U	0.0139 J	0.0435 J	0.0530 U
CF-7-4-6	'4-6	8/28/2001	0.00990 U	0.00400 U	0.0582 J	0.00400 U	0.00400 U	0.00990 UJ	0.00400 U	0.00400 U	0.0752 J	0.0500 U
CF-8-0-0.5	'0-0.5	8/28/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00930	0.0256	0.0520 U
CF-9-0.5-2	'0.5-2	8/31/2001	0.00880 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00880 U	0.00350 U	0.00350 U	0.00540	0.0440 U
CF-9-0-0.5	'0-0.5	8/31/2001	0.00940 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00940 U	0.00370 U	0.00370 U	0.00550	0.0470 U
DC-B12-0-0.5	'0-0.5	10/3/2001	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00900 U	0.0109	0.00360 U	0.00360 U	0.0450 U
DC-B12-2-4	'2-4	10/3/2001	0.00940 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00940 U	0.00520	0.00380 U	0.00380 U	0.0470 U
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.0460 U
DC-SS11-0-0.5	'0-0.5	9/17/2001	0.00840 U	0.00330 U	0.00330 U	0.00330 U	0.00330 U	0.00840 U	0.00330 U	0.00330 U	0.00330 U	0.0420 U
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.00880 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00880 U	0.00350 U	0.00350 U	0.00350 U	0.0440 U
DC-SS15-0-0.5	'0-0.5	9/17/2001	0.0110 UJ	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0110 U	0.00430 U	0.0571 J	0.00430 U	0.0540 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.00980 UJ	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.0460 U
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.0100 UJ	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.0530 U
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.00900 UJ	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.0450 U
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.00940 UJ	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00940 U	0.00380 U	0.00380 U	0.00380 U	0.0470 U
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.0520 U
DSP-1-0-0.5	'0-0.5	10/3/2001	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.0480 U
DSP-1-4-6	'4-6	11/19/2001	0.00210 U	0.000850 U	0.000850 U	0.000850 U	0.000850 U	0.00210 U	0.000850 U	0.000850 U	0.000850 U	0.0110 U
DSP-2-0-0.5	'0-0.5	9/4/2001	0.00950 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00950 U	0.00380 U	0.00380 U	0.00380 UJ	0.0480 U
DSP-3-0-0.5	'0-0.5	9/4/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 UJ	0.00410 U	0.00410 U	0.00410 UJ	0.0510 U
DSP-3-2-4	'2-4	9/4/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 U	0.00420 U	0.00420 U	0.00420 UJ	0.0520 U
DSP-4-0-0.5	'0-0.5	9/4/2001	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0110 U	0.00430 U	0.00430 U	0.00430 UJ	0.0530 U
DSP-4-4-6	'4-6	9/26/2001	0.0120 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.0120 U	0.00500 U	0.00500 U	0.00500 U	0.0620 U
DUP-01-010824	'0-0.5	8/24/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 UJ	0.00390 U	0.00390 U	0.0969 J	0.0490 U
DUP-01-010831	'2-4	8/31/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 U	0.0225 J	0.00370 U	0.0651 J	0.0460 U
DUP-01-010904	'0-0.5	9/4/2001	0.00860 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00860 UJ	0.00350 U	0.00350 U	0.00350 UJ	0.0430 U
DUP-01-010905	'8-10	9/5/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 U	0.0290 J	0.0138 J	0.00420 U	0.0530 U
DUP-01-010906	'0-8	9/6/2001	0.0380 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0380 U	0.0150 U	0.0263 J	0.0150 U	0.190 U
DUP-01-010913	'0-0.5	9/13/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 U	0.00370 U	0.00370 U	0.0233	0.0460 U
DUP-01-010917	'0-0.5	9/17/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.0500 U
DUP-01-010926	'1-2	9/26/2001	0.0160 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.0160 U	0.00650 U	0.00650 U	0.00650 U	0.0810 U
DUP-01-010927	'4-6	9/27/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 UJ	0.00390 U	0.00390 U	0.00390 UJ	0.0490 U
DUP-01-021001	'0-0	10/2/2001	0.00940 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00940 U	0.00380 U	0.00380 U	0.00380 U	0.0470 U
DUP-01-08 2201	'1.5-2	8/22/2001	0.0150 U	0.0150 U	0.0150 U	0.00760 U	0.00760 U	0.0300 U	0.00880 J	0.00870	0.00720 J	0.760 U
DUP-01-121001	'0-0	10/12/2001	0.00940 U	0.00380 U	0.00760	0.00380 U	0.00380 U	0.00940 U	0.00380 U	0.00920	0.0484	0.0470 U
DUP-01-170402	'0-0	4/17/2002	0.00450 U	0.00180 U	0.00180 U	0.00180 U	0.00180 U	0.00450 U	0.0106	0.00560	0.00180 U	0.0230 U
DUP-02-010913	'0-0.5	9/13/2001	0.0110 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.0110 U	0.00440 U	0.00440 U	0.00440 U	0.0550 U
DUP-02-010921	'0-1	9/21/2001	0.00220 U	0.000870 U	0.000870 U	0.000870 U	0.000870 U	0.00460	0.000870 U	0.00720	0.00490	0.0110 U
DUP-02-010926	'4-6	9/26/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.0530 U
DUP060807	'0-0	6/8/2007	0.000380 U	0.000340 U	0.000370 U	0.000380 U	0.000360 U	0.000460 U	0.000330 U	0.000340 U	0.000420 U	0.00660 U
DUP-1-010828	'0-0.5	8/28/2001	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0110 U	0.00430 U	0.00430 U	0.0107	0.0530 U
DUP-1-010921	'0-0.5	9/21/2001	0.00230 U	0.000900 U	0.000900 U	0.000900 U	0.000900 U	0.00230 U	0.000900 U	0.00120	0.00170	0.0110 U
DUP110606	'15-17	11/6/2006	0.000460 U	0.000420 U	0.000450 U	0.000460 U	0.000430 U	0.000550 U	0.000400 U	0.000410 U	0.000510 U	0.00790 U
DUP112006	'16-18	11/20/2006	0.000700 U	0.000640 U	0.000690 U	0.000710 U	0.000670 U	0.000850 U	0.000620 U	0.000640 U	0.000790 U	0.0120 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP112106	'10-12	11/21/2006	0.000750 U	0.000680 U	0.000740 U	0.000760 U	0.000710 U	0.000910 U	0.000660 U	0.000680 U	0.000840 U	0.0130 U
DUP-120506	'0-4	12/5/2006	0.000380 U	0.000350 U	0.000370 U	0.000380 U	0.000360 U	0.000460 U	0.000330 U	0.000340 U	0.000420 U	0.00660 U
DUP-120606	'0-4	12/6/2006	0.00110 U	0.000960 U	0.00100 U	0.00110 U	0.00100 U	0.00130 U	0.000920 U	0.000960 U	0.00120 U	0.0180 U
DUPE071801	'0-0.5	7/18/2001	0.00190 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.00190 U	0.000760 U	0.000760 U	0.353	0.00940 U
EC-1	'0-1	8/21/2001	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00900 U	0.00360 U	0.00360 U	0.00720	0.0450 U
EC-2	'0-1	8/21/2001	0.00930 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00930 U	0.00370 U	0.00370 U	0.0102	0.0460 U
EC-3	'0-1	8/21/2001	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00900 U	0.00360 U	0.00360 U	0.00760	0.0450 U
EC-4	'0-1	8/21/2001	0.00930 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00930 U	0.00370 U	0.00370 U	0.00370 U	0.0460 U
EC-5	'0-1	8/21/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.0460 U
EC-6	'0-1	8/21/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.0118	0.00410 U	0.00410 U	0.0520 U
EC-7	'0-1	8/21/2001	0.00990 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00990 U	0.00400 U	0.00400 U	0.00500	0.0500 U
EC-8	'0-1	8/21/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 U	0.00370 U	0.00370 U	0.00490	0.0460 U
EC-9	'0-1	8/21/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.0179	0.0510 U
ESR-1-0-1	'0-0.5	9/4/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 UJ	0.00370 U	0.00370 U	0.00370 UJ	0.0460 U
ESR-1-4-6	'4-6	9/4/2001	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0110 U	0.00430 U	0.00430 U	0.00430 UJ	0.0540 U
HB-101A	'17-17	3/5/2007	0.000420 U	0.000380 U	0.000420 U	0.000430 U	0.000400 U	0.000510 U	0.000370 U	0.000380 U	0.000470 U	0.00730 U
HB-102A	'0-0	3/13/2007	0.000660 U	0.000600 U	0.000640 U	0.000660 U	0.000620 U	0.000790 U	0.000580 U	0.000590 U	0.000730 U	0.0110 U
HB-102B	'0-0	3/14/2007	0.000450 U	0.000410 U	0.000440 U	0.000450 U	0.000420 U	0.000540 U	0.000390 U	0.000410 U	0.000500 U	0.00780 U
HB-102C	'0-0	3/14/2007	0.000410 U	0.000370 U	0.000400 U	0.000410 U	0.000390 U	0.000500 U	0.000360 U	0.000370 U	0.000460 U	0.00710 U
H-B-103A	'17-17	2/20/2007	0.000580 U	0.000530 U	0.000570 U	0.000590 U	0.000550 U	0.000710 U	0.000510 U	0.000530 U	0.000650 U	0.0100 U
H-B-104A	'17-17	2/23/2007	0.000460 U	0.000410 U	0.000450 U	0.000460 U	0.000430 U	0.000550 U	0.000400 U	0.000410 U	0.000510 U	0.00790 U
H-B-104B	'17-17	2/23/2007	0.000420 U	0.000390 U	0.000420 U	0.000430 U	0.000400 U	0.000510 U	0.000370 U	0.000390 U	0.000470 U	0.00740 U
H-B-104C	'17-17	2/23/2007	0.000460 U	0.000420 U	0.000450 U	0.000470 U	0.000440 U	0.000560 U	0.000410 U	0.000420 U	0.000520 U	0.00800 U
H-B-104D	'17-17	2/27/2007	0.000430 U	0.000390 U	0.000420 U	0.000430 U	0.000400 U	0.000520 U	0.000370 U	0.000390 U	0.000480 U	0.00740 U
H-B-104E	'17-17	2/27/2007	0.000430 U	0.000390 U	0.000420 U	0.000430 U	0.000410 U	0.000520 U	0.000380 U	0.000390 U	0.000480 U	0.00740 U
H-B-105C	'17-17	2/8/2007	0.000410 U	0.000380 U	0.000410 U	0.000420 U	0.000390 U	0.000500 U	0.000360 U	0.000370 U	0.000460 U	0.00720 U
H-B-105D	'17-17	2/8/2007	0.000450 U	0.000410 U	0.000440 U	0.000450 U	0.000420 U	0.000540 U	0.000390 U	0.000410 U	0.000500 U	0.00780 U
H-B-105E	'0-0	2/8/2007	0.000440 U	0.000400 U	0.000430 U	0.000440 U	0.000410 U	0.000530 U	0.000380 U	0.000400 U	0.000490 U	0.00760 U
HB-1A	'6.75-6.75	4/18/2002	0.00300 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00300 U	0.00120 U	0.00120 U	0.00120 U	0.0150 U
HB-3A	'5.25-5.25	4/17/2002	0.00510 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00510 U	0.00510	0.00310	0.00200 U	0.0260 U
HB-3B	'4.5-4.5	4/17/2002	0.00200 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.00200 U	0.000790 U	0.000790 U	0.000790 U	0.00990 U
HB-3C	'4.5-4.5	4/18/2002	0.00200 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.00200 U	0.000800 U	0.000800 U	0.000800 U	0.0100 U
HB-3D	'4.5-4.5	4/18/2002	0.00200 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.00200 U	0.000790 U	0.000790 U	0.000790 U	0.00980 U
HB-4A	'5.33-5.33	4/19/2002	0.00200 U	0.000790 U	0.000790 U	0.000790 U	0.000790 U	0.00200 U	0.000790 U	0.000790 U	0.000790 U	0.00980 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HB-5A	'3-3	4/22/2002	0.00210 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.00210 U	0.00860	0.00750	0.000830 U	0.0100 U
HB-7A	'5-5	4/19/2002	0.00210 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.00210 U	0.000830 U	0.00570	0.000830 U	0.0100 U
HB-8A	'3-3	4/23/2002	0.00200 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.00200 U	0.000810 U	0.00190	0.000810 U	0.0100 U
HB-8B	'4.83-4.83	4/23/2002	0.00200 U	0.000800 U	0.000800 U	0.000800 U	0.000800 U	0.00200 U	0.000800 U	0.00160	0.000800 U	0.0100 U
HB-8C	'5.5-5.5	4/23/2002	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.0265	0.00410 U	0.0520 U
HB-9A	'4.75-4.75	4/24/2002	0.00210 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.00210 U	0.000830 U	0.000830 U	0.000830 U	0.0100 U
HF-B1-0-0.5	'0-0.5	9/10/2001	0.0100 UJ	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.0135	0.00410 U	0.0109	0.0520 U
HF-B1-8-10	'8-10	9/10/2001	0.0300 UJ	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0300 U	0.0120 U	0.0120 U	0.0120 U	0.150 U
HF-B2-0-0.5	'0-0.5	9/4/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 UJ	0.00370 U	0.00370 U	0.00370 UJ	0.0460 U
HF-B2-4-6	'4-6	9/4/2001	0.00960 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00960 UJ	0.00420	0.00380 U	0.00380 UJ	0.0480 U
HF-B3-0-.5	'0-0.5	10/2/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
HF-B3-8-10	'8-10	10/2/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
IB-1-0-2	'0-2	4/8/2002	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
IB-1-4-6	'4-6	4/8/2002	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
IB-2-12-14	'12-14	4/8/2002	0.0110 UJ	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0110 U	0.00420 U	0.00420 U	0.00420 U	0.0530 U
IB-2-4-6	'4-6	4/8/2002	0.00980 UJ	0.00390 UJ	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00980	0.00390 U	0.00390 U	0.0490 U
IB-3-4-6	'4-6	4/8/2002	0.0100 U	0.00790	0.00420 U	0.00420 U	0.00420 U	0.0100 U	0.00420 U	0.0294 J	0.0205	0.0520 U
IB-3-8-10	'8-10	4/8/2002	0.0110 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.0110 U	0.0215 J	0.00440 U	0.00440 U	0.0550 U
LB-101-0-1	'0-1	12/6/2006	0.000390 U	0.000360 U	0.000390 U	0.000400 U	0.000370 U	0.000480 U	0.000350 U	0.000360 U	0.000440 U	0.00690 U
LB-101-1-3	'1-3	12/6/2006	0.00270 U	0.00240 U	0.00260 U	0.00270 U	0.00250 U	0.00320 U	0.00240 U	0.00240 U	0.00300 U	0.0470 U
LB-102-0-1	'0-3	12/6/2006	0.000400 U	0.000370 U	0.000400 U	0.000410 U	0.000380 U	0.000490 U	0.000350 U	0.000370 U	0.000450 U	0.00700 U
LB-102-1-3	'3-7	12/6/2006	0.000410 U	0.000370 U	0.000400 U	0.000410 U	0.000390 U	0.000490 U	0.000360 U	0.000370 U	0.000450 U	0.00710 U
LB-103-0-1	'0-1	12/6/2006	0.000390 U	0.000350 U	0.000380 U	0.000390 U	0.000370 U	0.000470 U	0.000340 U	0.000350 U	0.000430 U	0.00680 U
LB-103-5-7	'5-7	12/6/2006	0.000450 U	0.000410 U	0.000440 U	0.000450 U	0.000420 U	0.000540 U	0.000390 U	0.000400 U	0.000500 U	0.00780 U
LHP-101-0-1	'0-1	12/4/2006	0.000410 U	0.000370 U	0.000400 U	0.000410 U	0.000390 U	0.000490 U	0.00360 NJ	0.0153 J	0.0258 J	0.00710 U
LHP-101-5-8	'4-8	12/4/2006	0.000500 U	0.000460 U	0.000490 U	0.000500 U	0.000480 U	0.000610 U	0.000440 U	0.000450 U	0.000560 U	0.00870 U
LHP-102-0-1	'0-1	12/5/2006	0.000410 U	0.000380 U	0.000410 U	0.000420 U	0.000390 U	0.000500 U	0.000360 U	0.0157	0.0209	0.00720 U
LHP-102-7-9	'7-9	12/5/2006	0.000510 U	0.000460 U	0.000500 U	0.000510 U	0.000480 U	0.000620 U	0.000450 U	0.000460 U	0.000570 U	0.00880 U
LHP-103-0-1	'0-1	12/5/2006	0.000410 U	0.000370 U	0.00440	0.000410 U	0.000380 U	0.000490 U	0.000360 U	0.00200 NJ	0.00270 J	0.00700 U
LHP-103-1-3	'1-3	12/5/2006	0.000440 U	0.000400 U	0.000440 U	0.000450 U	0.000420 U	0.000540 U	0.000390 U	0.00560	0.00790 J	0.00770 U
LHP-104-0-1	'0-1	12/5/2006	0.000380 U	0.000350 U	0.000380 U	0.000390 U	0.000360 U	0.000460 U	0.000340 U	0.000350 U	0.000430 U	0.00670 U
LHP-104-7-9	'4-8	12/5/2006	0.000420 U	0.000380 U	0.000410 U	0.000430 U	0.000400 U	0.000510 U	0.000370 U	0.000380 U	0.000470 U	0.00730 U
LHP-105-0-1	'0-1	12/5/2006	0.000380 U	0.000350 U	0.000380 U	0.000390 U	0.000360 U	0.000470 U	0.000340 U	0.000350 U	0.000430 U	0.00670 U
LHP-105-1-3	'1-3	12/5/2006	0.000380 U	0.000350 U	0.000370 U	0.000380 U	0.000360 U	0.000460 U	0.000340 U	0.000350 U	0.000430 U	0.00660 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-106-0-1	'0-1	12/4/2006	0.000380 U	0.000350 U	0.000370 U	0.000380 U	0.000360 U	0.000460 U	0.000330 U	0.00180 NJ	0.00370 J	0.00660 U
LHP-106-1-3	'1-3	12/4/2006	0.000380 U	0.000340 U	0.000370 U	0.000380 U	0.000360 U	0.000460 U	0.000330 U	0.00370	0.00460	0.00650 U
LHP-107-0-1	'0-1	12/5/2006	0.000390 U	0.000360 U	0.000380 U	0.000390 U	0.000370 U	0.000470 U	0.000340 U	0.000350 U	0.000440 U	0.00680 U
LHP-107-5-7	'4-8	12/5/2006	0.000410 U	0.000380 U	0.000410 U	0.000420 U	0.000390 U	0.000500 U	0.000360 U	0.000370 U	0.000460 U	0.00720 U
LHP-108-0-1	'0-1	12/6/2006	0.000410 U	0.000370 U	0.00460 J	0.000410 U	0.000390 U	0.000490 U	0.000360 U	0.00750	0.00550 J	0.00710 U
LHP-108-3-7	'3-7	12/6/2006	0.000440 U	0.000400 U	0.000430 U	0.000440 U	0.000420 U	0.000530 U	0.000390 U	0.000400 U	0.000490 U	0.00760 U
LHP-109-0-1	'0-1	12/6/2006	0.000420 U	0.000380 U	0.000410 U	0.000420 U	0.000400 U	0.000510 U	0.000370 U	0.000380 U	0.000470 U	0.00730 U
LHP-109-7-9	'7-9	12/6/2006	0.000500 U	0.000450 U	0.000490 U	0.000500 U	0.000470 U	0.000600 U	0.000440 U	0.000450 U	0.000560 U	0.00870 U
LHP-110-0-1	'0-1	12/4/2006	0.000410 U	0.000380 U	0.000410 U	0.000420 U	0.000390 U	0.000500 U	0.0127 J	0.0111 NJ	0.0294 NJ	0.00720 U
LHP-111-0-1	'0-1	12/4/2006	0.000400 U	0.000370 U	0.000390 U	0.000400 U	0.000380 U	0.0254	0.0225	0.0341 NJ	0.0984 J	0.00700 U
LHP-112-0-1	'0-1	12/4/2006	0.000410 U	0.000370 U	0.00240	0.000410 U	0.000380 U	0.000490 U	0.00250 J	0.00410 NJ	0.0104	0.00700 U
LHP-113-0-1	'0-1	12/4/2006	0.000390 U	0.000350 U	0.000380 U	0.000390 U	0.000370 U	0.000470 U	0.000340 U	0.000350 U	0.000430 U	0.00670 U
LHP-114-0-1	'0-1	12/4/2006	0.000400 U	0.000360 U	0.000390 U	0.000400 U	0.000380 U	0.000490 U	0.00330 J	0.00770	0.0239 J	0.00700 U
LHP-115-0-1	'0-1	12/4/2006	0.000380 U	0.000340 U	0.000370 U	0.000380 U	0.000360 U	0.000460 U	0.000330 U	0.000340 U	0.00260	0.00650 U
LHP-116-0-1	'0-1	12/4/2006	0.000410 U	0.000370 U	0.000400 U	0.000410 U	0.000390 U	0.000500 U	0.00240 J	0.000370 U	0.000460 U	0.00710 U
LHP-117-0-1	'0-1	12/4/2006	0.000420 U	0.000380 U	0.000420 U	0.000430 U	0.000400 U	0.000510 U	0.0200 NJ	0.000380 U	0.0225 NJ	0.00740 U
LHP-118-0-1	'0-1	12/4/2006	0.000420 U	0.000390 U	0.000420 U	0.000430 U	0.000400 U	0.000510 U	0.00550 J	0.0239 J	0.0687 J	0.00740 U
LHP-119-0-1	'0-1	12/4/2006	0.000420 U	0.000380 U	0.000410 U	0.000420 U	0.000400 U	0.000510 U	0.00160 NJ	0.0252 J	0.0217	0.00730 U
LHP-120-0-1	'0-1	12/4/2006	0.000470 U	0.000430 U	0.000460 U	0.000470 U	0.000450 U	0.000570 U	0.00290 NJ	0.0376	0.0443 J	0.00820 U
LHP-121-0-1	'0-1	12/6/2006	0.000410 U	0.000370 U	0.000400 U	0.00180 U	0.000390 U	0.000500 U	0.0112 J	0.0140 J	0.0212	0.00710 U
LHP-122-0-1	'0-1	12/6/2006	0.000390 UJ	0.000360 UJ	0.00220 NJ	0.000390 UJ	0.000370 UJ	0.000470 UJ	0.00250 J	0.00370 NJ	0.0103 J	0.00680 UJ
LHP-123-0-1	'0-1	12/4/2006	0.000410 U	0.000380 U	0.00660	0.000420 U	0.000390 U	0.000500 U	0.00270 J	0.0174 J	0.0177 J	0.00720 U
LHP-124-.5-2	'0.5-2	10/27/2006	0.000420 U	0.000380 U	0.000420 U	0.00190 J	0.000400 U	0.000510 U	0.00170	0.00460 J	0.000470 U	0.00730 U
LHP-124-10-12	'10-12	10/31/2006	0.000680 U	0.000610 U	0.000660 U	0.000680 U	0.000640 U	0.000820 U	0.000590 U	0.000610 U	0.000750 U	0.0120 U
LHP-124-2-4	'2-4	10/27/2006	0.000430 U	0.000390 U	0.000420 U	0.000430 U	0.000410 U	0.000520 U	0.000380 U	0.000390 U	0.000480 U	0.00750 U
LHP-124-28-30	'28-30	10/31/2006	0.000510 U	0.000460 U	0.000500 U	0.000510 U	0.000480 U	0.000620 U	0.000450 U	0.000460 U	0.000570 U	0.00880 U
LHP-125-.5-2	'0.5-2	10/27/2006	0.000420 U	0.000380 U	0.000410 U	0.000420 U	0.000390 U	0.000500 U	0.000370 U	0.00330 J	0.000460 U	0.00720 U
LHP-125-10.5-12	'10.5-12	11/1/2006	0.000470 U	0.000430 U	0.000460 U	0.000470 U	0.000450 U	0.000570 U	0.000410 U	0.000430 U	0.00350 J	0.00820 U
LHP-125-12-14	'12-14	11/1/2006	0.000410 U	0.000380 U	0.000410 U	0.000420 U	0.000390 U	0.000500 U	0.000360 U	0.000380 U	0.000460 U	0.00720 U
LHP-125-4-6	'4-6	10/27/2006	0.000400 U	0.000370 U	0.000400 U	0.000410 U	0.000380 U	0.000490 U	0.000350 U	0.000370 U	0.000450 U	0.00700 U
LHP-126-10.5-12	'10.5-12	11/1/2006	0.00170 UJ	0.00160 UJ	0.00170 UJ	0.00170 UJ	0.00160 UJ	0.00210 UJ	0.00150 UJ	0.00160 UJ	0.00190 UJ	0.0300 UJ
LHP-126-14-16	'14-16	11/1/2006	0.000430 U	0.000390 U	0.000420 U	0.000440 U	0.000410 U	0.000520 U	0.000380 U	0.000390 U	0.000480 U	0.00750 U
LHP-126-2-4	'2-4	10/26/2006	0.000400 U	0.000370 U	0.000390 U	0.000400 U	0.000380 U	0.000490 U	0.000350 U	0.000360 U	0.0134	0.00700 U
LHP-126-8-10	'9-10	10/26/2006	0.000450 U	0.000410 U	0.000440 U	0.000460 U	0.000430 U	0.000550 U	0.000400 U	0.000410 U	0.000510 U	0.00790 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-127-0-1	'0-1	12/6/2006	0.000390 U	0.000350 U	0.000380 U	0.000390 U	0.000370 U	0.000470 U	0.00400	0.00320 J	0.0130	0.00670 U
LHP-127-3-5	'3-5	12/6/2006	0.00110 U	0.00100 U	0.00110 U	0.00110 U	0.00110 U	0.00140 U	0.000990 U	0.00100 U	0.00130 U	0.0200 U
LHP-128-0-1	'0-4	12/6/2006	0.00110 U	0.000960 U	0.00100 U	0.00110 U	0.00100 U	0.00130 U	0.000920 U	0.000950 U	0.00120 U	0.0180 U
LHP-128-7-8	'17-17	12/6/2006	0.00150 U	0.00140 U	0.00150 U	0.00150 U	0.00140 U	0.00180 U	0.00130 U	0.00140 U	0.00170 U	0.0260 U
LP-1-0-0.5	'0-0.5	8/27/2001	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.0450 U
LP-10-0.5-2	'0.5-2	8/27/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.0510 U
LP-10-0-0.5	'0-0.5	8/27/2001	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.0480 U
LP-101-11-13	'11-13	11/2/2006	0.000680 U	0.000620 U	0.000670 U	0.000690 U	0.000650 U	0.000820 U	0.000600 U	0.000620 U	0.000760 U	0.0120 U
LP-101-14-16	'14-16	11/2/2006	0.000590 U	0.000540 U	0.000580 U	0.000590 U	0.000560 U	0.000710 U	0.000520 U	0.000530 U	0.000660 U	0.0100 U
LP-101-26-28	'26-28	11/2/2006	0.000430 U	0.000390 U	0.000420 U	0.000430 U	0.000410 U	0.000520 U	0.000380 U	0.000390 U	0.000480 U	0.00740 U
LP-101-50-52	'50-52	11/2/2006	0.000410 U	0.000380 U	0.000410 U	0.000420 U	0.000390 U	0.000500 U	0.000360 U	0.000380 U	0.000460 U	0.00720 U
LP-11-0-0.5	'0-0.5	8/27/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 U	0.00400 U	0.00400 U	0.0507 J	0.0500 U
LP-12-0-0.5	'0-0.5	8/27/2001	0.00880 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00880 U	0.00350 U	0.00350 U	0.0120	0.0440 U
LP-12-4-6	'4-6	8/27/2001	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00900 U	0.00360 U	0.00360 U	0.00650	0.0450 U
LP-13-0-0.5	'0-0.5	8/24/2001	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0110 UJ	0.00430 U	0.00430 U	0.0863 J	0.0540 U
LP-14-0.5-2	'0.5-2	8/24/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 UJ	0.00400 U	0.00400 U	0.00400 UJ	0.0500 U
LP-14-0-0.5	'0-0.5	8/24/2001	0.00940 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00940 UJ	0.00380 U	0.00610	0.0156 J	0.0470 U
LP-15-0-0.5	'0-0.5	8/24/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 UJ	0.00420 U	0.00790	0.0305 J	0.0520 U
LP-16-0.5-2	'0.5-2	8/27/2001	0.00880 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00880 U	0.00670	0.0276	0.319	0.0440 U
LP-16-0-0.5	'0-0.5	8/27/2001	0.00940 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00940 U	0.0127	0.00370 U	0.0426	0.0470 U
LP-2-0.5-2	'0.5-2	8/28/2001	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0110 U	0.00430 U	0.00430 U	0.00430 UJ	0.0540 U
LP-2-0-0.5	'0-0.5	8/28/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 U	0.00420 U	0.00420 U	0.0271 J	0.0520 U
LP-3-0-0.5	'0-0.5	8/27/2001	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.0117	0.00360 U	0.00440	0.0233	0.0450 U
LP-4 .5-2	'0.5-2	8/21/2001	0.0190 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.0190 U	0.00760 U	0.00760 U	0.0296 J	0.0940 U
LP-4 0-.5	'0-0.5	8/21/2001	0.0190 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.0190 U	0.00760 U	0.00760 U	0.00760 U	0.0940 U
LP-5-0-0.5	'0-0.5	8/27/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 U	0.00370 U	0.00370 U	0.0528 J	0.0460 U
LP-6-0-0.5	'0-0.5	8/27/2001	0.00930 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00930 U	0.00370 U	0.00370 U	0.0454	0.0460 U
LP-6-4-6	'4-6	8/27/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.0115 J	0.0510 U
LP-7-0-0.5	'0-0.5	8/24/2001	0.0110 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0110 UJ	0.00420 U	0.00420 U	0.00420 UJ	0.0530 U
LP-8-0-0.5	'0-0.5	8/24/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.0510 U
LP-8-10-12	'10-12	8/24/2001	0.0160 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.0160 UJ	0.00630 U	0.00630 U	0.0213 J	0.0780 U
LP-9-0-0.5	'0-0.5	8/24/2001	0.00940 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00940 UJ	0.00380 U	0.00380 U	0.00380 UJ	0.0470 U
MW-11D-12-14	'12-14	12/14/2006	0.000640 U	0.000580 U	0.000630 U	0.000650 U	0.000610 U	0.000780 U	0.000560 U	0.000580 U	0.000720 U	0.0110 U
MW-11D-14-16	'14-16	12/14/2006	0.000430 U	0.000390 U	0.000430 U	0.000440 U	0.000410 U	0.000530 U	0.000380 U	0.000390 U	0.000480 U	0.00750 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-11D-16-18	'16-18	12/14/2006	0.000430 U	0.000390 U	0.000420 U	0.000430 U	0.000410 U	0.000520 U	0.000380 U	0.000390 U	0.000480 U	0.00750 U
MW-14D-13-15	'13-15	11/14/2006	0.000460 U	0.000420 U	0.000450 U	0.000470 U	0.000440 U	0.000560 U	0.000410 U	0.000420 U	0.000520 U	0.00800 U
MW-14D-17-19	'17-19	11/14/2006	0.000420 U	0.000390 U	0.000420 U	0.000430 U	0.000400 U	0.000510 U	0.000370 U	0.000390 U	0.000470 U	0.00740 U
MW-16D-13-15	'13-15	11/17/2006	0.000410 UJ	0.000380 UJ	0.000410 UJ	0.000420 UJ	0.000390 UJ	0.000500 UJ	0.000360 UJ	0.000370 UJ	0.000460 UJ	0.00720 UJ
MW-16D-17-19	'17-19	11/20/2006	0.000420 U	0.000380 U	0.000410 U	0.000430 U	0.000400 U	0.000510 U	0.000370 U	0.000380 U	0.000470 U	0.00730 U
MW-17D-15-17	'15-17	11/10/2006	0.000460 U	0.000420 U	0.000460 U	0.000470 U	0.000440 U	0.000560 U	0.000410 U	0.000420 U	0.000520 U	0.00810 U
MW-17D-17-19	'17-19	11/10/2006	0.000420 U	0.000380 U	0.000410 U	0.000420 U	0.000400 U	0.000510 U	0.000370 U	0.000380 U	0.000470 U	0.00730 U
MW-18D-13-15	'13-15	11/13/2006	0.000450 U	0.000410 U	0.000440 U	0.000450 U	0.000420 U	0.000540 U	0.000390 U	0.000410 U	0.000500 U	0.00780 U
MW-18D-17-19	'17-19	11/13/2006	0.000420 U	0.000380 U	0.000410 U	0.000430 U	0.000400 U	0.000510 U	0.000370 U	0.000380 U	0.000470 U	0.00730 U
MW-20D-12-14	'12-14	11/9/2006	0.000440 U	0.000400 U	0.000430 U	0.000440 U	0.000420 U	0.000530 U	0.000390 U	0.000400 U	0.000490 U	0.00770 U
MW-20D-32-34	'32-32.9	11/10/2006	0.000420 U	0.000380 U	0.000410 U	0.000420 U	0.000400 U	0.000510 U	0.000370 U	0.000380 U	0.000470 U	0.00720 U
MW-20D-36-38	'36-38	11/10/2006	0.000420 U	0.000390 U	0.000420 U	0.000430 U	0.000400 U	0.000510 U	0.000370 U	0.000390 U	0.000470 U	0.00740 U
MW-21D-13-15	'13-13.7	11/16/2006	0.000460 U	0.000420 U	0.000450 U	0.000460 U	0.000430 U	0.000550 U	0.000400 U	0.000410 U	0.000510 U	0.00790 U
MW-21D-15-17	'15-17	11/16/2006	0.000430 U	0.000390 U	0.000420 U	0.000430 U	0.000410 U	0.000520 U	0.000380 U	0.000390 U	0.000480 U	0.00740 U
MW-23D-15-17	'15-16	11/15/2006	0.000440 U	0.000400 U	0.000440 U	0.000450 U	0.000420 U	0.000540 U	0.000390 U	0.000400 U	0.000500 U	0.00770 U
MW-23D-37-39	'37-37.9	11/15/2006	0.000410 U	0.000370 U	0.000400 U	0.000410 U	0.000390 U	0.000490 U	0.000360 U	0.000370 U	0.000460 U	0.00710 U
MW-25D-10-12	'10-12	11/21/2006	0.000770 U	0.000700 U	0.000760 U	0.000780 U	0.000730 U	0.000940 U	0.000680 U	0.000700 U	0.000860 U	0.0130 U
MW-25D-33-35	'33-35	12/18/2006	0.000460 U	0.000420 U	0.000460 U	0.000470 U	0.000440 U	0.000560 U	0.000410 U	0.000420 U	0.000520 U	0.00810 U
MW-26S-8-10	'8-10	10/26/2006	0.000480 U	0.000440 U	0.000470 U	0.000490 U	0.000460 U	0.000580 U	0.000420 U	0.000440 U	0.000540 U	0.00840 U
MW-6D-0-2	'0-2	11/8/2006	0.000410 U	0.000370 U	0.000400 U	0.000410 U	0.000390 U	0.000490 U	0.000360 U	0.000370 U	0.000450 U	0.00710 U
MW-6D-12-14	'12-14	11/8/2006	0.000950 U	0.000870 U	0.000930 U	0.000960 U	0.000900 U	0.00120 U	0.000840 U	0.000860 U	0.00110 U	0.0170 U
MW-6D-16-18	'16-18	11/20/2006	0.000660 U	0.000600 U	0.000650 U	0.000660 U	0.000630 U	0.000800 U	0.000580 U	0.000600 U	0.000740 U	0.0110 U
MW-6D-30-32	'30-32	11/21/2006	0.000430 U	0.000390 U	0.000420 U	0.000430 U	0.000410 U	0.000520 U	0.000380 U	0.000390 U	0.000480 U	0.00750 U
PCA-1-0-.5	'0-2	7/17/2001	0.00180 U	0.000710 U	0.000760	0.000710 U	0.000710 U	0.00180 U	0.000710 U	0.00170	0.0138	0.00880 U
PCA-1-4-6	'4-6	7/17/2001	0.00200 U	0.000810 U	0.000810 U	0.000810 U	0.000810 U	0.00200 U	0.000810 U	0.000810 U	0.000810 U	0.0100 U
PCA-2-0-.5	'0-0.5	7/17/2001	0.00180 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.00180 U	0.000730 U	0.000730 U	0.000730 U	0.00920 U
PCA-3-0-0.5	'0-0.5	9/13/2001	0.00940 U	0.00380 U	0.0193	0.00380 U	0.00380 U	0.00940 U	0.00380 U	0.00380 U	0.119	0.0470 U
PCA-3-4-6	'4-6	9/13/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.0510 U
PCA-4-0-0.5	'0-0.5	9/13/2001	0.00930 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00930 U	0.00370 U	0.00370 U	0.0222	0.0460 U
PCA-4-4-6	'4-6	9/26/2001	0.0120 UJ	0.00460 UJ	0.00460 UJ	0.00460 UJ	0.00460 UJ	0.0120 UJ	0.00460 UJ	0.00460 UJ	0.0147 UJ	0.0580 UJ
PCA-5-0.5-2	'0.5-2	9/7/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.0111	0.0490 U
PCA-5-0-0.5	'0-0.5	9/7/2001	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.0154 J	0.0520 U
PCA-6-0-0.5	'0-0.5	9/7/2001	0.00950 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00950 U	0.00380 U	0.00380 U	0.00380 U	0.0480 U
RR-1 0-0.5	'0-0.5	8/22/2001	0.0370 U	0.0370 U	0.0370 U	0.0180 U	0.0180 U	0.0740 U	0.0370 U	0.0370 U	0.0370 U	1.80 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-1 14-16	'14-16	8/22/2001	0.200 U	0.200 U	0.200 U	0.0980 U	0.0980 U	0.390 U	0.200 U	0.200 U	0.200 U	9.80 U
RR-10 0-.5	'0-0.5	10/12/2001	0.00930 UJ	0.00370 UJ	0.00370 UJ	0.00370 UJ	0.00370 UJ	0.00930 UJ	0.00370 UJ	0.0124 J	0.0156 J	0.0460 UJ
RR-11 0-.5	'0-0.5	10/12/2001	0.00990 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.583 J	0.00400 U	0.0266 J	0.0618 J	0.0500 U
RR-12 0-.5	'0-0.5	10/12/2001	0.00990 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00990 U	0.00400 U	0.00630	0.0270	0.0500 U
RR-2-0-0.5	'0-0.5	9/13/2001	0.00960 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00960 U	0.00390 U	0.00390 U	0.00390 U	0.0480 U
RR-2-8-10	'8-10	9/13/2001	0.0130 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.0130 U	0.00520 U	0.0150	0.0172	0.0650 U
RR-3-0-0.5	'0-0.5	9/13/2001	0.00940 U	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00940 U	0.00380 U	0.00380 U	0.0242	0.0470 U
RR-4-0-0.5	'0-0.5	9/10/2001	0.00950 UJ	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00950 U	0.00380 U	0.00380 U	0.00380 U	0.0480 U
RR-4-6-8	'6-8	9/13/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
RR-5-0-0.5	'0-0.5	9/10/2001	0.00810 UJ	0.00320 U	0.00320 U	0.00320 U	0.00320 U	0.00810 U	0.00320 U	0.00320 U	0.00320 U	0.0400 U
RR-6-0-0.5	'0-0.5	9/10/2001	0.00960 UJ	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00960 U	0.00380 U	0.00380 U	0.0242	0.0480 U
RR-6-8-10	'8-10	9/10/2001	0.00950 UJ	0.00380 U	0.00380 U	0.00380 U	0.00380 U	0.00950 U	0.00380 U	0.00380 U	0.0106	0.0480 U
RR-7-0-0.5	'0-0.5	9/10/2001	0.0100 UJ	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 U	0.00410	0.00400 U	0.00400 U	0.0500 U
RR-8-0-0.5	'0-0.5	9/26/2001	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0110 U	0.00430 U	0.00430 U	0.0235	0.0540 U
RR-8-6-8	'6-8	9/26/2001	0.0160 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.0160 U	0.00650 U	0.00650 U	0.00650 U	0.0810 U
RR-9 0-.5	'0-0.5	10/12/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 U	0.00370 U	0.0244	0.0375	0.0460 U
SC-1	'0-1	8/21/2001	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.0110 U	0.00430 U	0.00430 U	0.00430 U	0.0540 U
SC-2	'0-1	8/22/2001	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00900 U	0.00360 U	0.00360 U	0.0151	0.0450 U
SC-3	'0-1	8/22/2001	0.00970 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00970 U	0.00390 U	0.00390 U	0.0142	0.0480 U
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.0520 U
SILO-B1-6-8	'6-8	9/6/2001	0.0370 U	0.0150 U	0.0150 U	0.0150 U	0.0150 U	0.0370 U	0.0150 U	0.0350	0.0150 U	0.190 U
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.00990 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00990 U	0.00400 U	0.00400 U	0.00400 U	0.0500 U
SILO-B3-0-0.5	'0-0.5	9/6/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.0500 U
SILO-B3-6-8	'6-8	9/6/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.0490 U
SILO-B4-0-0.5	'0-0.5	9/6/2001	0.0110 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0110 U	0.00420 U	0.00420 U	0.00420 U	0.0530 U
SPR-1-0-0.5	'0-0.5	9/5/2001	0.00950 U	0.00380 U	0.00740	0.00380 U	0.00380 U	0.00950 U	0.00380 U	0.00380 U	0.00760	0.0480 U
SPR-1-8-10	'8-10	9/5/2001	0.0120 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.0120 U	0.00500 U	0.00500 U	0.00500 U	0.0620 U
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.00210 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.00210 U	0.000830 U	0.000830 U	0.000830 U	0.0100 U
SPR-2A-8-10	'8-10	7/19/2001	0.00240 U	0.000960 U	0.000960 U	0.000960 U	0.000960 U	0.00240 U	0.000960 U	0.000960 U	0.000960 U	0.0120 U
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.00200 U	0.000780 U	0.000780 U	0.000780 U	0.000780 U	0.00200 U	0.000780 U	0.000780 U	0.000780 U	0.00980 U
SPR-2B-10-12	'10-12	7/19/2001	0.00260 UJ	0.00100 UJ	0.00100 UJ	0.00100 U	0.00100 UJ	0.00260 UJ	0.00100 UJ	0.00100 UJ	0.00100 UJ	0.0130 UJ
SPR-3 0-.5	'0-0.5	8/21/2001	0.00190 U	0.000750 U	0.000750 U	0.000750 U	0.000750 U	0.00190 U	0.000750 U	0.000750 U	0.000750 U	0.00940 U
SPR-3 4-6	'4-6	8/21/2001	0.0200 U	0.00780 U	0.00780 U	0.00780 U	0.00780 U	0.0200 U	0.00780 U	0.0130	0.00780 U	0.0980 U
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.00210 U	0.000830 U	0.000830 U	0.000830 U	0.000830 U	0.00210 U	0.000830 U	0.00520	0.000830 U	0.0100 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SPR-4A-8-10	'8-10	7/19/2001	0.00310 U	0.00120 U	0.00120 U	0.00120 U	0.00120 U	0.00310 U	0.00120 U	0.00120 U	0.0121	0.0150 U
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.0380 U	0.0380 U	0.0380 U	0.0190 U	0.0190 U	0.0760 U	0.0380 U	0.0278	0.0380 U	1.90 U
SPR-4B-4-6	'4-6	8/23/2001	0.0100 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.0100 UJ	0.0127 J	0.0326 J	0.00400 UJ	0.0500 U
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 UJ	0.184 J	0.0383	0.00390 UJ	0.0490 U
SPR-4C-4-6	'4-6	8/23/2001	0.0120 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.0120 UJ	0.0101	0.00500 U	0.00500 U	0.0620 U
SPR-5-0-0.5	'0-0.5	9/5/2001	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.0450 U
SPR-5-2-4	'2-4	9/5/2001	0.0110 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.0110 U	0.00990	0.0119	0.00440 U	0.0550 U
SPR-6-0.5-2	'0.5-2	9/13/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 U	0.0166	0.0120	0.0205	0.0460 U
SPR-6-0-0.5	'0-0.5	9/13/2001	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.0450 U
SR-1-0-.5	'0-0.5	7/17/2001	0.00180 U	0.000710 U	0.000710 U	0.000710 U	0.000710 U	0.00180 U	0.000710 U	0.000710 U	0.000710 U	0.00880 U
SR-2-0-.5	'0-0.5	7/17/2001	0.00170 U	0.000670 U	0.000670 U	0.000670 U	0.000670 U	0.00170 U	0.000670 U	0.000670 U	0.000670 U	0.00830 U
ST-1-0-0.5	'0-0.5	9/5/2001	0.00960 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00960 U	0.00390 U	0.00390 U	0.00390 U	0.0480 U
ST-2-0-0.5	'0-0.5	9/5/2001	0.00980 U	0.00390 U	0.0135 J	0.00390 U	0.00390 U	0.0122 J	0.00390 U	0.0102 J	0.0171 J	0.0490 U
ST-3-0-0.5	'0-0.5	9/4/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 UJ	0.00370 U	0.00370 U	0.00370 U	0.0460 U
ST-3-4-6	'4-6	9/4/2001	0.0120 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.0120 U	0.00480 U	0.00480 U	0.00480 UJ	0.0600 U
TES-1-0-1	'0-1	12/5/2006	0.000420 U	0.000380 U	0.000410 U	0.000420 U	0.000400 U	0.000510 U	0.000370 U	0.000380 U	0.000470 U	0.00730 U
TES-2-0-1	'0-1	12/4/2006	0.000450 U	0.000410 U	0.000440 U	0.000450 U	0.000430 U	0.000550 U	0.000400 U	0.000410 U	0.000500 U	0.00780 U
TES-3-0-1	'0-1	12/4/2006	0.000450 U	0.000410 U	0.000440 U	0.000460 U	0.000430 U	0.000550 U	0.000400 U	0.000410 U	0.000510 U	0.00790 U
TES-4-0-1	'0-1	12/5/2006	0.000400 U	0.000360 U	0.000390 U	0.000400 U	0.000380 U	0.000480 U	0.00790 NJ	0.00420 J	0.0217 J	0.00690 U
TLN-1 .5-2	'0.5-2	8/20/2001	0.0400 U	0.0400 U	0.0400 U	0.0200 U	0.0200 U	0.0800 U	0.0400 U	0.0400 U	0.0400 U	2.00 U
TLN-1 0-.5	'0-0.5	8/20/2001	0.210 U	0.210 U	0.210 U	0.100 U	0.100 U	0.420 U	0.210 U	0.210 U	0.210 U	10.0 U
TLN-2-0-0.5	'0-0.5	7/19/2001	0.00190 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.00190 U	0.000760 U	0.000760 U	0.000760 U	0.00940 U
TLN-3-0-.5	'0-0.5	7/17/2001	0.00180 U	0.000720 U	0.000720 U	0.000720 U	0.000720 U	0.00180 U	0.000720 U	0.000720 U	0.000720 U	0.00900 U
TLN-3-2-4	'2-4	7/17/2001	0.00190 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.00190 U	0.0320	0.0319	0.0323	0.00950 U
TLN-4 0-.5	'0-0.5	8/20/2001	0.0360 U	0.0360 U	0.0360 U	0.0180 U	0.0180 U	0.0710 U	0.0360 U	0.0360 U	0.0360 U	1.80 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.0340 U	0.0340 U	0.0340 U	0.0170 U	0.0170 U	0.0690 U	0.0340 U	0.0340 U	0.0340 U	1.70 U
TLN-5 .5-2	'0.5-2	8/20/2001	0.0360 U	0.0360 U	0.0360 U	0.0180 U	0.0180 U	0.0710 U	0.0360 U	0.0360 U	0.0360 U	1.80 U
TLN-5 0-.5	'0-0.5	8/20/2001	0.0140 U	0.0140 U	0.0140 U	0.00700 U	0.00700 U	0.0280 U	0.0140 U	0.0140 U	0.0140 U	0.700 U
TLN-5-4-6	'4-6	8/30/2001	0.00910 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00910 U	0.00360 U	0.00360 U	0.00360 U	0.0460 U
TLN-6 0-.5	'0-0.5	8/20/2001	0.0370 U	0.0370 U	0.0370 U	0.0180 U	0.0180 U	0.0740 U	0.0370 U	0.0370 U	0.0370 U	1.80 U
TLS-10 0-.5	'0-0.5	8/21/2001	0.00190 U	0.000760 U	0.000760 U	0.000760 U	0.000760 U	0.00190 U	0.000760 U	0.000760 U	0.000760 U	0.00940 U
TLS-10 8-10	'8-10	8/21/2001	0.00230 U	0.000910 U	0.000910 U	0.000910 U	0.000910 U	0.00230 U	0.000910 U	0.00330 J	0.000910 U	0.0110 U
TLS-1-0-0.5	'0-0.5	9/5/2001	0.00920 U	0.00370 U	0.00370 U	0.00370 U	0.00370 U	0.00920 U	0.00370 U	0.00370 U	0.0139	0.0460 U
TLS-11-0-0.5	'0-0.5	9/7/2001	0.00190 U	0.000770 U	0.000770 U	0.000770 U	0.000770 U	0.00190 U	0.000770 U	0.000770 U	0.00970 J	0.00960 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-2-0-0.5	'0-0.5	9/7/2001	0.00190 U	0.000750 U	0.000750 U	0.000750 U	0.000750 U	0.00190 U	0.000750 U	0.000750 U	0.000750 UJ	0.00940 U
TLS-2-6-8	'6-8	9/7/2001	0.0140 UJ	0.00570 UJ	0.00570 UJ	0.00570 UJ	0.00570 UJ	0.0140 UJ	0.0218	0.00880	0.00570 UJ	0.0710 UJ
TLS-3 0-.5	'0-0.5	8/21/2001	0.00180 U	0.000730 U	0.000730 U	0.000730 U	0.000730 U	0.00180 U	0.000730 U	0.000730 U	0.000730 U	0.00910 U
TLS-4-0-0.5	'0-0.5	9/7/2001	0.00840 U	0.00340 U	0.00340 U	0.00340 U	0.00340 U	0.00840 U	0.00340 U	0.00340 U	0.00340 U	0.0420 U
TLS-4-8-10	'8-10	9/7/2001	0.0140 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.0140 U	0.00570 U	0.00570 U	0.00570 U	0.0720 U
TLS-5 0-0.5	'0-0.5	8/21/2001	0.180 U	0.180 U	0.180 U	0.0880 U	0.0880 U	0.350 U	0.180 U	0.180 U	0.180 U	8.80 U
TLS-5-8-10	'8-10	9/26/2001	0.0140 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.0140 U	0.00540 U	0.00540 U	0.00540 U	0.0680 U
TLS-6 0-.5	'0-0.5	8/21/2001	0.0180 U	0.00730 U	0.0180 U	0.00730 U	0.00730 U	0.0180 U	0.00730 U	0.00730 U	0.00730 U	0.0910 U
TLS-6-3-5	'3-5	9/26/2001	0.0110 UJ	0.00420 UJ	0.00420 UJ	0.00420 UJ	0.00420 UJ	0.0110 UJ	0.00420 UJ	0.00420 UJ	0.00420 UJ	0.0530 UJ
TLS-7 0-.5	'0-0.5	8/21/2001	0.128 J	0.00730 U	0.00730 U	0.0115 J	0.00730 U	0.0180 U	0.00730 U	0.00730 U	0.00730 U	0.0910 U
TLS-8-0-0.5	'0-0.5	9/7/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 U	0.00390 U	0.00390 U	0.00390 UJ	0.0490 U
TLS-8-6-8	'6-8	9/7/2001	0.0120 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.0120 U	0.00460 U	0.00460 U	0.00460 U	0.0580 U
TLS-9 0-.5	'0-0.5	8/21/2001	0.0170 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.0170 U	0.00680 U	0.00680 U	0.00680 U	0.0850 U
TP-105	'0-0	6/8/2007	0.000370 U	0.000330 U	0.000360 U	0.000370 U	0.000350 U	0.000440 U	0.000320 U	0.000330 U	0.000410 U	0.00640 U
TP-105A	'0-0	6/8/2007	0.000370 U	0.000330 U	0.000360 U	0.000370 U	0.000350 U	0.000440 U	0.000320 U	0.000330 U	0.000410 U	0.00630 U
TP-106-A	'0-0	6/8/2007	0.000370 U	0.000340 U	0.000360 U	0.000370 U	0.000350 U	0.000450 U	0.000330 U	0.000340 U	0.00300	0.00640 U
TP-106-B	'0-0	6/8/2007	0.000360 U	0.000330 U	0.000360 U	0.000360 U	0.000340 U	0.000440 U	0.000320 U	0.000330 U	0.000400 U	0.00630 U
WWT-1-0-0.5	'0-0.5	7/19/2001	0.00200 U	0.000820 U	0.000820 U	0.000820 U	0.000820 U	0.00200 U	0.000820 U	0.000820 U	0.000820 U	0.0100 U
WWT-101-15-17	'15-17	11/6/2006	0.000450 U	0.000410 U	0.000440 U	0.000460 U	0.000430 U	0.000550 U	0.000400 U	0.000410 U	0.000510 U	0.00790 U
WWT-101-21-23	'21-23	11/6/2006	0.000430 U	0.000390 U	0.000420 U	0.000430 U	0.000410 U	0.000520 U	0.000380 U	0.000390 U	0.000480 U	0.00750 U
WWT-1-12-14	'12-14	8/23/2001	0.0120 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.0120 UJ	0.00470 U	0.00470 U	0.00470 UJ	0.0580 U
WWT-2-0-0.5	'0-0.5	8/23/2001	0.00880 U	0.00350 U	0.00350 U	0.00350 U	0.00350 U	0.00880 UJ	0.00350 U	0.00350 U	0.00350 UJ	0.0440 U
WWT-2-12-14	'12-14	8/23/2001	0.0100 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.0100 UJ	0.00420 U	0.00420 U	0.00420 UJ	0.0520 U
WWT-3-0-0.5	'0-0.5	8/23/2001	0.00900 U	0.00360 U	0.00360 U	0.00360 U	0.00360 U	0.00900 UJ	0.00360 U	0.00360 U	0.00360 UJ	0.0450 U
WWT-3-12-14	'12-14	8/23/2001	0.00980 U	0.00390 U	0.00390 U	0.00390 U	0.00390 U	0.00980 UJ	0.00390 U	0.00390 U	0.00390 UJ	0.0490 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			1	1	1	1	1	1	1
12K-B1-0.5-2	'0.5-2	9/6/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
12K-B1-0-0.5	'0-0.5	9/6/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	2.10 J	0.0200 U
12K-B2-0.5-2	'0.5-2	9/6/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
12K-B2-0-0.5	'0-0.5	9/6/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
150K-1-0.5-2	'0.5-2	9/10/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0459	0.0190 U
150K-1-0-0.5	'0-0.5	9/10/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.663	0.0200 U
230-B1-0.5	'0-0.5	10/2/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U
230-B10-0-0.5	'0-0.5	8/30/2001	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U	7.43 J	0.0260 U
230-B10-1.5-2	'1.5-2	8/30/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.760 J	0.0220 U
230-B11-0-0.5	'0-0.5	8/30/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	2.72	0.0200 U
230-B11-1.5-2	'1.5-2	8/30/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.188	0.0200 U
230-B1-4-6	'4-6	10/2/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U
230-B2-0-0.5	'0-0.5	8/30/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	4.04 J	0.0210 U
230-B2-1.5-2	'1.5-2	8/30/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
230-B3-0-0.5	'0-0.5	8/30/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	5.82 J	0.0200 U
230-B3-1.5-2	'1.5-2	8/30/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0653 J	0.0200 U
230-B4-0-0.5	'0-0.5	8/30/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	28.8 J	0.0190 U
230-B4-1.5-2	'1.5-2	8/30/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.135	0.0200 U
230-B5-0-0.5	'0-0.5	9/13/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	4.23 J	0.0180 U
230-B5-1.5-2	'1.5-2	9/13/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
230-B6 0-0.5	'0-0.5	8/22/2001	0.0190 UJ	0.0190 UJ	0.0190 UJ	0.0190 UJ	0.0190 UJ	1.76 J	0.0190 UJ
230-B6 1.5-2	'1.5-2	8/22/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
230-B7 0-0.5	'0-0.5	8/22/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	5.99	3.66
230-B7 1.5-2	'1.5-2	8/22/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
230-B8 1.5-2	'1.5-2	8/22/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.958	0.0200 U
230-B9 0-0.5	'0-0.5	8/22/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.578
230-B9 0-0.5	'0-0.5	8/22/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.999
230-B9 1.5-2	'1.5-2	8/22/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0256	0.0180 U
231-B1-0-0.5	'0-0.5	10/5/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	2.64 J	0.0200 U
231-B10-0-0.5	'0-0.5	9/17/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.224	0.0190 U
231-B11-0-0.5	'0-0.5	9/19/2001	0.0380 U	0.0380 U	0.0380 U	0.0380 U	0.0380 U	0.0380 U	0.332
231-B11-8-10	'8-10	9/19/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.144 J	0.0200 U
231-B12-0-0.5	'0-0.5	9/17/2001	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	2.51	0.180 U
231-B13-0-0.5	'0-0.5	9/19/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	10.8 J	0.0200 U
231-B13-8-10	'9-10	9/27/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0534	0.0200 U
231-B14-0-0.5	'0-0.5	9/19/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.540 J	0.0190 U
231-B2-0.5-2	'0.5-2	8/22/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	1.25 J	0.0180 U
231-B2-0-0.5	'0-0.5	8/22/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	2.98 J	0.0190 U
231-B3-0-0.5	'0-0.5	8/22/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	11.9 J	0.0200 U
231-B4-0-0.5	'0-0.5	8/30/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.142	0.0200 U
231-B4-6-8	'6-8	9/27/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
231-B5-0.5-2	'0.5-2	9/19/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
231-B6-0-0.5	'0-0.5	9/27/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
231-B6-4-6	'4-6	9/27/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	43.2 J	0.0200 U
231-B7-0-0.5	'0-0.5	9/13/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.737 J	0.0220 U
231-B8-0-0.5	'0-0.5	9/27/2001	0.0430 UJ	0.0430 UJ	0.0430 UJ	0.0430 UJ	0.0430 UJ	7.88 J	0.0430 UJ
231-B8-8-10	'8-10	9/27/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U
231-B9-0.5-2	'0.5-2	9/27/2001	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U
231-B9-0-0.5	'0-0.5	9/27/2001	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U	5.14 J

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			1	1	1	1	1	1	1
240-1-0-0.5	'0-0.5	9/26/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	12.8	0.0220 U
240-1-8-10	'8-10	10/1/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
5K-B1-0-0.5	'0-0.5	10/1/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0832 J	0.0200 U
5K-B2-0-0.5	'0-0.5	8/31/2001	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	16.3	0.0170 U
5K-B2-8-10	'8-10	8/31/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0952	0.0210 U
5K-B3-0-0.5	'0-0.5	9/26/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	6.68	0.0190 U
5K-B4-0-0.5	'0-0.5	10/1/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	1.56 J	0.0200 U
5K-B4-4-6	'4-6	10/1/2001	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.217	0.0230 U
5K-B5-0-0.5	'0-0.5	8/31/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
5K-B5-4-6	'4-6	9/26/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.196	0.0200 U
AB-1-0-0.5	'0-0.5	9/4/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	1.70 J	0.0200 U
AB-2-0.5-2	'0.5-2	9/4/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	2.32 J	0.0220 U
AB-2-0-0.5	'0-0.5	9/4/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	1.36 J	0.0200 U
ADN-1-0-0.5	'0-0.5	9/5/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
ADN-1-8-10	'8-10	9/5/2001	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U
ADN-2-0-0.5	'0-0.5	9/5/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0898	0.0200 U
ADN-2-10-11	'10-11	9/27/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
ADS-1-0-.5	'0-0.5	7/17/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0838
ADS-10-0-0.5	'0-2	7/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.855	0.381
ADS-101-0-1	'0-1	12/5/2006	0.00740 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00780 U
ADS-101-1-3	'1-3	12/5/2006	0.00720 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00760 U
ADS-102-0-1.5	'0-2	12/5/2006	0.00700 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0170 U	0.00750 U
ADS-102-7-8	'4-8	12/5/2006	0.00760 U	0.0240 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.00810 U
ADS-10-4-6	'4-6	7/18/2001	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U
ADS-11-0-0.5	'0-2	7/18/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.391	0.216
ADS-12-0.5-2	'0.5-2	7/18/2001	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U
ADS-12-0-0.5	'0-0.5	7/18/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.176	0.121
ADS-2-0-0.5	'0-0.5	7/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
ADS-2-4-6	'4-6	7/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
ADS-3-0-0.5	'0-0.5	7/18/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
ADS-4-0-0.5	'0-2	7/18/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.594
ADS-4-12-14	'12-14	7/18/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
ADS-5-0-0.5	'0-0.5	7/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	1.89 J	0.0200 U
ADS-5-4-6	'4-6	9/27/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0243	0.0200 U
ADS-6-0.5-2	'0.5-2	7/18/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0715 J
ADS-6-0-0.5	'0-0.5	7/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	1.38 J
ADS-7-0-.5	'0-0.5	7/17/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
ADS-8-0-0.5	'0-0.5	7/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
ADS-8-4-6	'4-6	7/18/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
ADS-9-0-0.5	'0-0.5	7/18/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
BLIND DUP	'0-0	8/21/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
BSL-10-0-1	'0-1	9/21/2001	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U
BSL-1-0-1	'0-1	9/20/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.140	0.0210 U
BSL-11-0-1	'0-1	9/26/2001	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
BSL-12-0-1	'0-1	9/26/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0620	0.0200 U
BSL-1-4-6	'4-6	9/20/2001	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U
BSL-2-0-1	'0-1	9/21/2001	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
BSL-3-0-0.5	'0-0.5	9/20/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
BSL-4-0-1	'0-0.5	9/21/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0293	0.0220 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			1	1	1	1	1	1	1
BSL-4-4-6	'4-6	9/21/2001	0.0480 U	0.0480 U	0.0480 U	0.0480 U	0.0480 U	0.0480 U	0.0480 U
BSL-5-0-.5	'0-0.5	9/21/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
BSL-6-0-1	'0-1	9/26/2001	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U
BSL-6-1-2	'1-2	9/26/2001	0.0340 U	0.0340 U	0.0340 U	0.0340 U	0.0340 U	0.0340 U	0.0340 U
BSL-7-0-.5	'0-0.5	9/21/2001	0.0640 U	0.0640 U	0.0640 U	0.0640 U	0.0640 U	0.0640 U	0.0640 U
BSL-8-0-1	'0-1	9/26/2001	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U
BSL-9-.5-2	'0.5-2	9/21/2001	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U
BSL-9-0-.5	'0-0.5	9/21/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0552	0.0200 U
BT-B1-0-0.5	'0-0.5	9/18/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
BT-B2-0.5-2	'0.5-2	9/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
BT-B2-0-0.5	'0-0.5	9/18/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U
BT-B3-0-0.5	'0-0.5	9/18/2001	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.661 J	0.0170 U
BT-B4-0.5-2	'0.5-2	8/30/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
BT-B4-0-0.5	'0-0.5	8/30/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.512 J	0.0180 U
BT-B5-0-.5	'0-0.5	10/2/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	4.52 J	0.0200 U
BT-B6-0.5-2	'0.5-2	9/17/2001	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.299 J	0.0230 U
BT-B6-0-0.5	'0-0.5	9/17/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.649 J	0.0190 U
CF-1-0-0.5	'0-0.5	8/31/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0351	0.0180 U
CF-1-2-4	'2-4	8/31/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
CF-2-0-0.5	'0-0.5	8/28/2001	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.110	0.0230 U
CF-3-0.5-2	'0.5-2	8/28/2001	0.0350 U	0.0350 U	0.0350 U	0.0350 U	0.0350 U	0.0350 U	0.0350 U
CF-3-0-0.5	'0-0.5	8/28/2001	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U	0.0280 U
CF-4-0-0.5	'0-0.5	8/28/2001	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.227 J	0.0240 U
CF-5-0-0.5	'0-0.5	8/28/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
CF-5-4-6	'4-6	8/28/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.187	0.0210 U
CF-6-0-0.5	'0-0.5	8/28/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.276
CF-7-0-0.5	'0-0.5	8/28/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	1.03	0.0210 U
CF-7-4-6	'4-6	8/28/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.546 J	0.0200 U
CF-8-0-0.5	'0-0.5	8/28/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.567 J	0.0210 U
CF-9-0.5-2	'0.5-2	8/31/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
CF-9-0-0.5	'0-0.5	8/31/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0955	0.0190 U
DC-B12-0-0.5	'0-0.5	10/3/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.699	0.0180 U
DC-B12-2-4	'2-4	10/3/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.584	0.0190 U
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	14.4 J	0.0180 U
DC-SS11-0-0.5	'0-0.5	9/17/2001	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.458	0.0170 U
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.385 J	0.0180 U
DC-SS15-0-0.5	'0-0.5	9/17/2001	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U	2.39 J	0.110 U
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	5.40 J	0.0200 U
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	3.17 J	0.0180 U
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	4.70 J	0.0210 U
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.900 U	0.900 U	0.900 U	0.900 U	0.900 U	8.38 J	0.900 U
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.0940 U	0.0940 U	0.0940 U	0.0940 U	0.0940 U	2.25 J	0.0940 U
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.0420 U	0.0420 U	0.0420 U	0.0420 U	0.0420 U	1.46 J	0.0420 U
DSP-1-0-0.5	'0-0.5	10/3/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	4.08	0.0190 U
DSP-1-4-6	'4-6	11/19/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
DSP-2-0-0.5	'0-0.5	9/4/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
DSP-3-0-0.5	'0-0.5	9/4/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.295	0.139
DSP-3-2-4	'2-4	9/4/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
DSP-4-0-0.5	'0-0.5	9/4/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.130	0.145

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			1	1	1	1	1	1	1
DSP-4-4-6	'4-6	9/26/2001	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
DUP-01-010824	'0-0.5	8/24/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
DUP-01-010831	'2-4	8/31/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
DUP-01-010904	'0-0.5	9/4/2001	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U
DUP-01-010905	'8-10	9/5/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
DUP-01-010906	'0-8	9/6/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U	0.0760 U	0.0760 U	0.0760 U
DUP-01-010913	'0-0.5	9/13/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.546 J	0.0180 U
DUP-01-010917	'0-0.5	9/17/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.669 J	0.0200 U
DUP-01-010926	'1-2	9/26/2001	0.0320 U	0.0320 U	0.0320 U	0.0320 U	0.0320 U	0.0320 U	0.0320 U
DUP-01-010927	'4-6	9/27/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
DUP-01-021001	'0-0	10/2/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	4.96 J	0.0190 U
DUP-01-08 2201	'1.5-2	8/22/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
DUP-01-121001	'0-0	10/12/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
DUP-01-170402	'0-0	4/17/2002	0.0450 U	0.0450 U	0.0450 U	0.0450 U	0.0450 U	0.0450 U	0.0450 U
DUP-02-010913	'0-0.5	9/13/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	1.98 J	0.0220 U
DUP-02-010921	'0-1	9/21/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U
DUP-02-010926	'4-6	9/26/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.164	0.0210 U
DUP060807	'0-0	6/8/2007	0.00650 U	0.0210 U	0.0190 U	0.0110 U	0.0120 U	0.0160 U	0.00690 U
DUP-1-010828	'0-0.5	8/28/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0403	0.0210 U
DUP-1-010921	'0-0.5	9/21/2001	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U
DUP110606	'15-17	11/6/2006	0.00800 U	0.0250 U	0.0230 U	0.0130 U	0.0150 U	0.0200 U	0.00850 U
DUP112006	'16-18	11/20/2006	0.0120 U	0.0390 U	0.0350 U	0.0200 U	0.0220 U	0.0300 U	0.0130 U
DUP112106	'10-12	11/21/2006	0.0130 U	0.0410 U	0.0370 U	0.0220 U	0.0240 U	0.0320 U	0.0140 U
DUP-120506	'0-4	12/5/2006	0.00660 U	0.0210 U	0.0190 U	0.0110 U	0.0120 U	0.0160 UJ	0.00700 UJ
DUP-120606	'0-4	12/6/2006	0.0180 U	0.0580 U	0.0520 U	0.0310 U	0.0330 U	0.0450 U	0.0190 U
DUPE071801	'0-0.5	7/18/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
EC-1	'0-1	8/21/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
EC-2	'0-1	8/21/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0275
EC-3	'0-1	8/21/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
EC-4	'0-1	8/21/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
EC-5	'0-1	8/21/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
EC-6	'0-1	8/21/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
EC-7	'0-1	8/21/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
EC-8	'0-1	8/21/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
EC-9	'0-1	8/21/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0323
ESR-1-0-1	'0-0.5	9/4/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.129	0.0180 U
ESR-1-4-6	'4-6	9/4/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0366	0.0220 U
HB-101A	'17-17	3/5/2007	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00780 U
HB-102A	'0-0	3/13/2007	0.0110 U	0.0360 U	0.0320 U	0.0190 U	0.0210 U	0.0280 U	0.0120 U
HB-102B	'0-0	3/14/2007	0.00770 U	0.0250 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.00820 U
HB-102C	'0-0	3/14/2007	0.00710 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0180 U	0.00750 U
H-B-103A	'17-17	2/20/2007	0.0100 U	0.0320 U	0.0290 U	0.0170 U	0.0180 U	0.0250 U	0.0110 U
H-B-104A	'17-17	2/23/2007	0.00790 U	0.0250 U	0.0230 U	0.0130 U	0.0140 U	0.0200 U	0.00840 U
H-B-104B	'17-17	2/23/2007	0.00740 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00780 U
H-B-104C	'17-17	2/23/2007	0.00800 U	0.0250 U	0.0230 U	0.0130 U	0.0150 U	0.0200 U	0.00850 U
H-B-104D	'17-17	2/27/2007	0.00740 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00780 U
H-B-104E	'17-17	2/27/2007	0.00740 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00790 U
H-B-105C	'17-17	2/8/2007	0.00710 U	0.0230 U	0.0200 U	0.0120 U	0.0130 U	0.0180 U	0.00760 U
H-B-105D	'17-17	2/8/2007	0.00770 U	0.0250 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.00820 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			1	1	1	1	1	1	1
H-B-105E	'0-0	2/8/2007	0.00760 U	0.0240 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.00800 U
HB-1A	'6.75-6.75	4/18/2002	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.0300 U
HB-3A	'5.25-5.25	4/17/2002	0.0510 U	0.0510 U	0.0510 U	0.0510 U	0.0510 U	0.0510 U	0.0510 U
HB-3B	'4.5-4.5	4/17/2002	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
HB-3C	'4.5-4.5	4/18/2002	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
HB-3D	'4.5-4.5	4/18/2002	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
HB-4A	'5.33-5.33	4/19/2002	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
HB-5A	'3-3	4/22/2002	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0719	0.0210 U
HB-7A	'5-5	4/19/2002	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0654	0.0210 U
HB-8A	'3-3	4/23/2002	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
HB-8B	'4.83-4.83	4/23/2002	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
HB-8C	'5.5-5.5	4/23/2002	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
HB-9A	'4.75-4.75	4/24/2002	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0569	0.0210 U
HF-B1-0-0.5	'0-0.5	9/10/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0433	0.0210 U
HF-B1-8-10	'8-10	9/10/2001	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.0600 U
HF-B2-0-0.5	'0-0.5	9/4/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0272
HF-B2-4-6	'4-6	9/4/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0300
HF-B3-0-.5	'0-0.5	10/2/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
HF-B3-8-10	'8-10	10/2/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	2.60 J	0.0190 U
IB-1-0-2	'0-2	4/8/2002	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
IB-1-4-6	'4-6	4/8/2002	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
IB-2-12-14	'12-14	4/8/2002	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
IB-2-4-6	'4-6	4/8/2002	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
IB-3-4-6	'4-6	4/8/2002	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	1.04	0.0210 U
IB-3-8-10	'8-10	4/8/2002	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U
LB-101-0-1	'0-1	12/6/2006	0.00680 U	0.0220 U	0.0200 U	0.0110 U	0.0120 U	0.0170 U	0.00730 U
LB-101-1-3	'1-3	12/6/2006	0.0460 U	0.150 U	0.130 U	0.0780 U	0.0840 U	0.120 U	0.0490 U
LB-102-0-1	'0-3	12/6/2006	0.00700 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0170 U	0.00740 U
LB-102-1-3	'3-7	12/6/2006	0.00700 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	5.99	0.00750 U
LB-103-0-1	'0-1	12/6/2006	0.00670 U	0.0210 U	0.0190 U	0.0110 U	0.0120 U	0.0170 U	0.00720 U
LB-103-5-7	'5-7	12/6/2006	0.00770 U	0.0240 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.00820 U
LHP-101-0-1	'0-1	12/4/2006	0.00700 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0180 U	0.0587
LHP-101-5-8	'4-8	12/4/2006	0.00870 U	0.0270 U	0.0250 U	0.0150 U	0.0160 U	0.0220 U	0.00920 U
LHP-102-0-1	'0-1	12/5/2006	0.00720 U	0.0230 U	0.0200 U	0.0120 U	0.0130 U	0.0180 U	0.243
LHP-102-7-9	'7-9	12/5/2006	0.00880 U	0.0280 U	0.0250 U	0.0150 U	0.0160 U	0.0220 U	0.00940 U
LHP-103-0-1	'0-1	12/5/2006	0.00700 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0180 U	0.00750 U
LHP-103-1-3	'1-3	12/5/2006	0.00770 U	0.0240 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.00820 U
LHP-104-0-1	'0-1	12/5/2006	0.00660 U	0.0210 U	0.0190 U	0.0110 U	0.0120 U	0.0170 U	0.00710 U
LHP-104-7-9	'4-8	12/5/2006	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00780 U
LHP-105-0-1	'0-1	12/5/2006	0.00670 U	0.0210 U	0.0190 U	0.0110 U	0.0120 U	0.629 J	0.210 J
LHP-105-1-3	'1-3	12/5/2006	0.00660 U	0.0210 U	0.0190 U	0.0110 U	0.0120 U	1.85	0.00700 U
LHP-106-0-1	'0-1	12/4/2006	0.00660 U	0.0210 U	0.0190 U	0.0110 U	0.0120 U	0.0160 U	0.00700 U
LHP-106-1-3	'1-3	12/4/2006	0.0190 U	0.0600 U	0.0540 U	0.0320 U	0.0350 U	0.0470 U	0.0200 U
LHP-107-0-1	'0-1	12/5/2006	0.00670 U	0.0210 U	0.0190 U	0.0110 U	0.0120 U	0.0170 U	0.00710 U
LHP-107-5-7	'4-8	12/5/2006	0.00720 U	0.0230 U	0.0200 U	0.0120 U	0.0130 U	0.0180 U	0.00760 U
LHP-108-0-1	'0-1	12/6/2006	0.00710 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0180 U	0.00750 U
LHP-108-3-7	'3-7	12/6/2006	0.00760 U	0.0240 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.00810 U
LHP-109-0-1	'0-1	12/6/2006	0.00720 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.848	0.349
LHP-109-7-9	'7-9	12/6/2006	0.00860 U	0.0270 U	0.0250 U	0.0140 U	0.0160 U	0.0220 U	0.00920 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			1	1	1	1	1	1	1
LHP-110-0-1	'0-1	12/4/2006	0.00720 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.128	0.0856
LHP-111-0-1	'0-1	12/4/2006	0.00700 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0170 U	0.00740 U
LHP-112-0-1	'0-1	12/4/2006	0.00700 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0180 U	0.00750 U
LHP-113-0-1	'0-1	12/4/2006	0.00670 U	0.0210 U	0.0190 U	0.0110 U	0.0120 U	1.20	0.00710 U
LHP-114-0-1	'0-1	12/4/2006	0.00690 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0170 U	0.162
LHP-115-0-1	'0-1	12/4/2006	0.00650 U	0.0210 U	0.0190 U	0.0110 U	0.0120 U	0.0160 U	0.00690 U
LHP-116-0-1	'0-1	12/4/2006	0.00710 U	0.0230 U	0.0200 U	0.0120 U	0.0130 U	0.449	0.00760 U
LHP-117-0-1	'0-1	12/4/2006	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.269	0.00780 U
LHP-118-0-1	'0-1	12/4/2006	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.733
LHP-119-0-1	'0-1	12/4/2006	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00770 U
LHP-120-0-1	'0-1	12/4/2006	0.00810 U	0.0260 U	0.0230 U	0.0140 U	0.0150 U	0.0200 U	0.00860 U
LHP-121-0-1	'0-1	12/6/2006	0.00710 U	0.0230 U	0.0200 U	0.0120 U	0.0130 U	0.117	0.0723
LHP-122-0-1	'0-1	12/6/2006	0.00680 UJ	0.0210 UJ	0.0190 UJ	0.0110 UJ	0.0120 UJ	0.0170 UJ	0.194 J
LHP-123-0-1	'0-1	12/4/2006	0.00720 U	0.0230 U	0.0200 U	0.0120 U	0.0130 U	0.0180 U	0.0692
LHP-124-.5-2	'0.5-2	10/27/2006	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0772	0.00780 U
LHP-124-10-12	'10-12	10/31/2006	0.0120 U	0.0370 U	0.0330 U	0.0200 U	0.0210 U	0.0290 U	0.0120 U
LHP-124-2-4	'2-4	10/27/2006	0.00740 U	0.0240 U	0.0210 U	0.0120 U	0.0140 U	0.0190 U	0.00790 U
LHP-124-28-30	'28-30	10/31/2006	0.00880 U	0.0280 U	0.0250 U	0.0150 U	0.0160 U	0.0220 U	0.00930 U
LHP-125-.5-2	'0.5-2	10/27/2006	0.00720 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.0925
LHP-125-10.5-12	'10.5-12	11/1/2006	0.00810 U	0.0260 U	0.0230 U	0.0140 U	0.0150 U	0.0200 U	0.00860 U
LHP-125-12-14	'12-14	11/1/2006	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00780 U
LHP-125-4-6	'4-6	10/27/2006	0.00700 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0170 U	0.00740 U
LHP-126-10.5-12	'10.5-12	11/1/2006	0.0300 UJ	0.0950 UJ	0.0850 UJ	0.0500 UJ	0.0540 UJ	0.0740 UJ	0.0320 UJ
LHP-126-14-16	'14-16	11/1/2006	0.00750 U	0.0240 U	0.0210 U	0.0130 U	0.0140 U	0.0190 U	0.00790 U
LHP-126-2-4	'2-4	10/26/2006	0.00700 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0170 U	0.00740 U
LHP-126-8-10	'9-10	10/26/2006	0.00780 U	0.0250 U	0.0220 U	0.0130 U	0.0140 U	0.0200 U	0.00830 U
LHP-127-0-1	'0-1	12/6/2006	0.0200 U	0.0630 U	0.0570 U	0.0330 U	0.0360 U	0.0500 U	0.0210 U
LHP-127-3-5	'3-5	12/6/2006	0.0200 U	0.0620 U	0.0560 U	0.0330 U	0.0360 U	0.0490 U	0.0210 U
LHP-128-0-1	'0-4	12/6/2006	0.0180 U	0.0580 U	0.0520 U	0.0300 U	0.0330 U	0.0450 U	0.0190 U
LHP-128-7-8	'17-17	12/6/2006	0.0260 U	0.0820 U	0.0740 U	0.0430 U	0.0470 U	0.386	0.0270 U
LP-1-0-0.5	'0-0.5	8/27/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0834	0.0180 U
LP-10-0.5-2	'0.5-2	8/27/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
LP-10-0-0.5	'0-0.5	8/27/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	1.12 J	0.0200 U
LP-101-11-13	'11-13	11/2/2006	0.0120 U	0.0370 U	0.0340 U	0.0200 U	0.0210 U	0.0290 U	0.0130 U
LP-101-14-16	'14-16	11/2/2006	0.0100 U	0.0320 U	0.0290 U	0.0170 U	0.0190 U	0.0250 U	0.0110 U
LP-101-26-28	'26-28	11/2/2006	0.00740 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00790 U
LP-101-50-52	'50-52	11/2/2006	0.00720 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00760 U
LP-11-0-0.5	'0-0.5	8/27/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.574	0.0200 U
LP-12-0-0.5	'0-0.5	8/27/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.157	0.0180 U
LP-12-4-6	'4-6	8/27/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0339	0.0180 U
LP-13-0-0.5	'0-0.5	8/24/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.415	0.0210 U
LP-14-0.5-2	'0.5-2	8/24/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.300	0.0200 U
LP-14-0-0.5	'0-0.5	8/24/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0784
LP-15-0-0.5	'0-0.5	8/24/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.478	0.0210 U
LP-16-0.5-2	'0.5-2	8/27/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0724	0.0180 U
LP-16-0-0.5	'0-0.5	8/27/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.750	0.0180 U
LP-2-0.5-2	'0.5-2	8/28/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	1.09 J	0.0220 U
LP-2-0-0.5	'0-0.5	8/28/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.517 J	0.0210 U
LP-3-0-0.5	'0-0.5	8/27/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.163	0.0180 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			1	1	1	1	1	1	1
LP-4 .5-2	'0.5-2	8/21/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.983 J	0.0190 U
LP-4 0-.5	'0-0.5	8/21/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
LP-5-0-0.5	'0-0.5	8/27/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	1.04	0.0180 U
LP-6-0-0.5	'0-0.5	8/27/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	1.07	0.0180 U
LP-6-4-6	'4-6	8/27/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
LP-7-0-0.5	'0-0.5	8/24/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.731	0.0210 U
LP-8-0-0.5	'0-0.5	8/24/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
LP-8-10-12	'10-12	8/24/2001	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0671
LP-9-0-0.5	'0-0.5	8/24/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0892	0.0180 U
MW-11D-12-14	'12-14	12/14/2006	0.0110 U	0.0350 U	0.0320 U	0.0190 U	0.0200 U	0.0280 U	0.0120 U
MW-11D-14-16	'14-16	12/14/2006	0.00750 U	0.0240 U	0.0210 U	0.0130 U	0.0140 U	0.0190 U	0.00800 U
MW-11D-16-18	'16-18	12/14/2006	0.00750 U	0.0240 U	0.0210 U	0.0120 U	0.0140 U	0.0190 U	0.00790 U
MW-14D-13-15	'13-15	11/14/2006	0.00800 U	0.0250 U	0.0230 U	0.0130 U	0.0150 U	0.0200 U	0.00850 U
MW-14D-17-19	'17-19	11/14/2006	0.00740 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00780 U
MW-16D-13-15	'13-15	11/17/2006	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00780 U
MW-16D-17-19	'17-19	11/20/2006	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00780 U
MW-17D-15-17	'15-17	11/10/2006	0.00810 U	0.0250 U	0.0230 U	0.0130 U	0.0150 U	0.0200 U	0.00860 U
MW-17D-17-19	'17-19	11/10/2006	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00770 U
MW-18D-13-15	'13-15	11/13/2006	0.00770 U	0.0240 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.00820 U
MW-18D-17-19	'17-19	11/13/2006	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00780 U
MW-20D-12-14	'12-14	11/9/2006	0.00760 U	0.0240 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.00810 U
MW-20D-32-34	'32-32.9	11/10/2006	0.00720 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00770 U
MW-20D-36-38	'36-38	11/10/2006	0.00740 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00780 U
MW-21D-13-15	'13-13.7	11/16/2006	0.00790 U	0.0250 U	0.0230 U	0.0130 U	0.0140 U	0.0200 U	0.00840 U
MW-21D-15-17	'15-17	11/16/2006	0.00740 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	0.00790 U
MW-23D-15-17	'15-16	11/15/2006	0.00770 U	0.0240 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.00820 U
MW-23D-37-39	'37-37.9	11/15/2006	0.00710 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0180 U	0.00750 U
MW-25D-10-12	'10-12	11/21/2006	0.0130 U	0.0420 U	0.0380 U	0.0220 U	0.0240 U	0.0330 U	0.0140 U
MW-25D-33-35	'33-35	12/18/2006	0.00800 U	0.0250 U	0.0230 U	0.0130 U	0.0150 U	0.0200 U	0.00850 U
MW-26S-8-10	'8-10	10/26/2006	0.00840 U	0.0260 U	0.0240 U	0.0140 U	0.0150 U	0.0210 U	0.00890 U
MW-6D-0-2	'0-2	11/8/2006	0.00710 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.0180 U	0.00750 U
MW-6D-12-14	'12-14	11/8/2006	0.0160 U	0.0520 U	0.0470 U	0.0280 U	0.0300 U	0.0410 U	0.0180 U
MW-6D-16-18	'16-18	11/20/2006	0.0110 U	0.0360 U	0.0330 U	0.0190 U	0.0210 U	0.0280 U	0.0120 U
MW-6D-30-32	'30-32	11/21/2006	0.00740 U	0.0240 U	0.0210 U	0.0120 U	0.0140 U	0.0190 U	0.00790 U
PCA-1-0-.5	'0-2	7/17/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0969
PCA-1-4-6	'4-6	7/17/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
PCA-2-0-.5	'0-0.5	7/17/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	4.00	0.0180 U
PCA-3-0-0.5	'0-0.5	9/13/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.381
PCA-3-4-6	'4-6	9/13/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
PCA-4-0-0.5	'0-0.5	9/13/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.831 J	0.0190 U
PCA-4-4-6	'4-6	9/26/2001	0.0230 UJ	0.0230 UJ	0.0230 UJ	0.0230 UJ	0.0230 UJ	0.0230 UJ	0.0230 UJ
PCA-5-0.5-2	'0.5-2	9/7/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
PCA-5-0-0.5	'0-0.5	9/7/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.418 J	0.0210 U
PCA-6-0-0.5	'0-0.5	9/7/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
RR-1 0-0.5	'0-0.5	8/22/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.397	0.0180 U
RR-1 14-16	'14-16	8/22/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
RR-10 0-.5	'0-0.5	10/12/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.125
RR-11 0-.5	'0-0.5	10/12/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
RR-12 0-.5	'0-0.5	10/12/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			1	1	1	1	1	1	1
RR-2-0-0.5	'0-0.5	9/13/2001	0.0190 UJ	0.0190 UJ	0.0190 UJ	0.0190 UJ	0.0190 UJ	0.0236 J	0.0190 UJ
RR-2-8-10	'8-10	9/13/2001	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.378
RR-3-0-0.5	'0-0.5	9/13/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.888 J	0.0190 U
RR-4-0-0.5	'0-0.5	9/10/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.770	0.0190 U
RR-4-6-8	'6-8	9/13/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.171 J	0.0200 U
RR-5-0-0.5	'0-0.5	9/10/2001	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.0160 U	0.812	0.0160 U
RR-6-0-0.5	'0-0.5	9/10/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0964	0.0870
RR-6-8-10	'8-10	9/10/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0477	0.0190 U
RR-7-0-0.5	'0-0.5	9/10/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.152	0.129
RR-8-0-0.5	'0-0.5	9/26/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.134	0.137
RR-8-6-8	'6-8	9/26/2001	0.0330 U	0.0330 U	0.0330 U	0.0330 U	0.0330 U	0.0330 U	0.0330 U
RR-9 0-.5	'0-0.5	10/12/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
SC-1	'0-1	8/21/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	2.25	0.0210 U
SC-2	'0-1	8/22/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0281 J
SC-3	'0-1	8/22/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	1.44 J	0.0210 U
SILO-B1-6-8	'6-8	9/6/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U	0.0740 U	0.0740 U	0.0740 U
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
SILO-B3-0-0.5	'0-0.5	9/6/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	15.2	0.0200 U
SILO-B3-6-8	'6-8	9/6/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
SILO-B4-0-0.5	'0-0.5	9/6/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	2.13	0.0210 U
SPR-1-0-0.5	'0-0.5	9/5/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0527	0.0200 U
SPR-1-8-10	'8-10	9/5/2001	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0421	0.0250 U
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	1.02
SPR-2A-8-10	'8-10	7/19/2001	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	1.14
SPR-2B-10-12	'10-12	7/19/2001	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U	0.0260 U
SPR-3 0-.5	'0-0.5	8/21/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	3.16 J
SPR-3 4-6	'4-6	8/21/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.116
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.115
SPR-4A-8-10	'8-10	7/19/2001	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.154	0.0190 U
SPR-4B-4-6	'4-6	8/23/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.952	0.618
SPR-4C-4-6	'4-6	8/23/2001	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
SPR-5-0-0.5	'0-0.5	9/5/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.150
SPR-5-2-4	'2-4	9/5/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
SPR-6-0.5-2	'0.5-2	9/13/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.167 J	0.104 J
SPR-6-0-0.5	'0-0.5	9/13/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0236
SR-1-0-.5	'0-0.5	7/17/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
SR-2-0-.5	'0-0.5	7/17/2001	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.492	0.0170 U
ST-1-0-0.5	'0-0.5	9/5/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0626	0.0655
ST-2-0-0.5	'0-0.5	9/5/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.224	0.0200 U
ST-3-0-0.5	'0-0.5	9/4/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U
ST-3-4-6	'4-6	9/4/2001	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U
TES-1-0-1	'0-1	12/5/2006	0.00730 U	0.0230 U	0.0210 U	0.0120 U	0.0130 U	0.0180 U	5.39
TES-2-0-1	'0-1	12/4/2006	0.00780 U	0.0250 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.00830 U
TES-3-0-1	'0-1	12/4/2006	0.00780 U	0.0250 U	0.0220 U	0.0130 U	0.0140 U	5.59	0.00830 U
TES-4-0-1	'0-1	12/5/2006	0.00690 U	0.0220 U	0.0200 U	0.0120 U	0.0130 U	0.720	0.281

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			1	1	1	1	1	1	1
TLN-1 .5-2	'0.5-2	8/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.754 J	0.586 J
TLN-1 0-.5	'0-0.5	8/20/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U
TLN-2-0-0.5	'0-0.5	7/19/2001	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.308
TLN-3-0-.5	'0-0.5	7/17/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.990
TLN-3-2-4	'2-4	7/17/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
TLN-4 0-.5	'0-0.5	8/20/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 UJ	1.32 J
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	1.69
TLN-5 .5-2	'0.5-2	8/20/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	1.65
TLN-5 0-.5	'0-0.5	8/20/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.158	0.103
TLN-5-4-6	'4-6	8/30/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.209
TLN-6 0-.5	'0-0.5	8/20/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.825 J
TLS-10 0-.5	'0-0.5	8/21/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	1.35 J
TLS-10 8-10	'8-10	8/21/2001	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U
TLS-1-0-0.5	'0-0.5	9/5/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.444
TLS-11-0-0.5	'0-0.5	9/7/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.382 J	0.399 J
TLS-2-0-0.5	'0-0.5	9/7/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.200
TLS-2-6-8	'6-8	9/7/2001	0.0310 UJ	0.0310 UJ	0.0310 UJ	0.0310 UJ	0.0310 UJ	0.0310 UJ	0.0310 UJ
TLS-3 0-.5	'0-0.5	8/21/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	1.17 J	0.491 J
TLS-4-0-0.5	'0-0.5	9/7/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U
TLS-4-8-10	'8-10	9/7/2001	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.0300 U	0.0300 U
TLS-5 0-0.5	'0-0.5	8/21/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	7.61	0.0180 U
TLS-5-8-10	'8-10	9/26/2001	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U
TLS-6 0-.5	'0-0.5	8/21/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	8.34 J	0.0180 U
TLS-6-3-5	'3-5	9/26/2001	0.0630 UJ	0.0630 UJ	0.0630 UJ	0.0630 UJ	0.0630 UJ	0.0630 UJ	0.0630 UJ
TLS-7 0-.5	'0-0.5	8/21/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	1.98 J	0.0180 U
TLS-8-0-0.5	'0-0.5	9/7/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	1.01 J	1.58 J
TLS-8-6-8	'6-8	9/7/2001	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U
TLS-9 0-.5	'0-0.5	8/21/2001	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.0170 U	0.151
TP-105	'0-0	6/8/2007	0.00630 U	0.0200 U	0.0180 U	0.0110 U	0.0120 U	0.0160 U	0.00670 U
TP-105A	'0-0	6/8/2007	0.00630 U	0.0200 U	0.0180 U	0.0110 U	0.0120 U	0.0160 U	0.00670 U
TP-106-A	'0-0	6/8/2007	0.00640 U	0.0200 U	0.0180 U	0.0110 U	0.0120 U	0.0160 U	0.00680 U
TP-106-B	'0-0	6/8/2007	0.00630 U	0.0200 U	0.0180 U	0.0100 U	0.0110 U	0.0160 U	0.00670 U
WWT-1-0-0.5	'0-0.5	7/19/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.740	0.0190 U
WWT-101-15-17	'15-17	11/6/2006	0.00780 U	0.0250 U	0.0220 U	0.0130 U	0.0140 U	0.0200 U	0.00830 U
WWT-101-21-23	'21-23	11/6/2006	0.00750 U	0.0240 U	0.0210 U	0.0130 U	0.0140 U	0.0190 U	0.00790 U
WWT-1-12-14	'12-14	8/23/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	2.72 J
WWT-2-0-0.5	'0-0.5	8/23/2001	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	1.15 J	0.0190 U
WWT-2-12-14	'12-14	8/23/2001	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	1.12 J	0.0240 U
WWT-3-0-0.5	'0-0.5	8/23/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U	2.64 J	0.0180 U
WWT-3-12-14	'12-14	8/23/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	4.16 J	0.0200 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
SRS			4200	3	5	21	130		820	
12K-B1-0.5-2	'0.5-2	9/6/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00970			
12K-B1-0-0.5	'0-0.5	9/6/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.0186			
12K-B2-0.5-2	'0.5-2	9/6/2001	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U			
12K-B2-0-0.5	'0-0.5	9/6/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.0121			
150K-1-0.5-2	'0.5-2	9/10/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U			
150K-1-0-0.5	'0-0.5	9/10/2001	0.00450 U	0.00450 U	0.00450 U	0.00450 U	0.00450 U			
230-B1-0.5	'0-0.5	10/2/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U			
230-B10-0-0.5	'0-0.5	8/30/2001	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U			
230-B10-1.5-2	'1.5-2	8/30/2001	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U			
230-B11-0-0.5	'0-0.5	8/30/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.0110 JN		
230-B11-1.5-2	'1.5-2	8/30/2001	0.00660 U	0.00660 U	0.00660 U	0.00660 U	0.00660 U			
230-B1-4-6	'4-6	10/2/2001	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U			
230-B2-0-0.5	'0-0.5	8/30/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U			
230-B2-1.5-2	'1.5-2	8/30/2001	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U			
230-B3-0-0.5	'0-0.5	8/30/2001	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U			
230-B3-1.5-2	'1.5-2	8/30/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
230-B4-0-0.5	'0-0.5	8/30/2001	0.00500 U	0.00500 U	0.00500 U	0.00670	0.00500 U			
230-B4-1.5-2	'1.5-2	8/30/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
230-B5-0-0.5	'0-0.5	9/13/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
230-B5-1.5-2	'1.5-2	9/13/2001	0.00610 U	0.00610 U	0.00610 U	0.0156	0.00610 U			
230-B6 0-0.5	'0-0.5	8/22/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U			
230-B6 1.5-2	'1.5-2	8/22/2001	0.00490 U	0.00490 U	0.00490 U	0.00490 U	0.00490 U			
230-B7 0-0.5	'0-0.5	8/22/2001	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U			
230-B7 1.5-2	'1.5-2	8/22/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
230-B8 1.5-2	'1.5-2	8/22/2001	0.00640 U	0.00640 U	0.00640 U	0.00640 U	0.00640 U			
230-B9 0-0.5	'0-0.5	8/22/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
230-B9 0-0.5	'0-0.5	8/22/2001	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U			
230-B9 1.5-2	'1.5-2	8/22/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
231-B1-0-0.5	'0-0.5	10/5/2001	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U			
231-B10-0-0.5	'0-0.5	9/17/2001	0.00960 U	0.00960 U	0.00960 U	0.00960 U	0.00230 J			
231-B11-0-0.5	'0-0.5	9/19/2001	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U			
231-B11-8-10	'8-10	9/19/2001	0.00920 U	0.00920 U	0.00920 U	0.00920 U	0.00920 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U			
231-B13-0-0.5	'0-0.5	9/19/2001	0.0140 U	0.0140 U	0.0140 U	0.0140 U	0.0140 U			
231-B13-8-10	'9-10	9/27/2001	12.0 U	12.0 U	12.0 U	12.0 U	12.0 U			
231-B14-0-0.5	'0-0.5	9/19/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
231-B2-0.5-2	'0.5-2	8/22/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
231-B2-0-0.5	'0-0.5	8/22/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.0180 JN		
231-B3-0-0.5	'0-0.5	8/22/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
231-B4-0-0.5	'0-0.5	8/30/2001	0.00870 U	0.00870 U	0.00870 U	0.00870 U	0.00870 U			
231-B4-6-8	'6-8	9/27/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
231-B5-0.5-2	'0.5-2	9/19/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U			
231-B6-0-0.5	'0-0.5	9/27/2001	0.00540 U	0.00540 U	0.00540 U	0.00660	0.00540 U			
231-B6-4-6	'4-6	9/27/2001	0.0140 U	0.0140 U	0.0140 U	0.0140 U	0.0140 U			
231-B7-0-0.5	'0-0.5	9/13/2001	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U			
231-B8-0-0.5	'0-0.5	9/27/2001	0.0270 UJ	0.0270 UJ	0.0270 UJ	0.0270 UJ	0.0270 UJ			
231-B8-8-10	'8-10	9/27/2001	4.80 U	4.80 U	4.80 U	4.80 U	4.80 U	92.0 JN	480. JN	
231-B9-0.5-2	'0.5-2	9/27/2001	0.00860 U	0.00860 U	0.00860 U	0.00860 U	0.00860 U			
231-B9-0-0.5	'0-0.5	9/27/2001	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U			
240-1-0-0.5	'0-0.5	9/26/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00620 JN	
240-1-8-10	'8-10	10/1/2001	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U			
5K-B1-0-0.5	'0-0.5	10/1/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U			
5K-B2-0-0.5	'0-0.5	8/31/2001	0.00710 U	0.00710 U	0.00710 U	0.00710 U	0.00710 U			
5K-B2-8-10	'8-10	8/31/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
5K-B3-0-0.5	'0-0.5	9/26/2001	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U			
5K-B4-0-0.5	'0-0.5	10/1/2001	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U			
5K-B4-4-6	'4-6	10/1/2001	0.310 U	0.310 U	0.310 U	0.310 U	0.310 U		0.320 JN	
5K-B5-0-0.5	'0-0.5	8/31/2001	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U			
5K-B5-4-6	'4-6	9/26/2001	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U			
AB-1-0-0.5	'0-0.5	9/4/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U			
AB-2-0.5-2	'0.5-2	9/4/2001	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U			
AB-2-0-0.5	'0-0.5	9/4/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U			
ADN-1-0-0.5	'0-0.5	9/5/2001	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.00470 U			
ADN-1-8-10	'8-10	9/5/2001	0.880 U	0.880 U	0.880 U	0.880 U	0.880 U	0.920 JN		
ADN-2-0-0.5	'0-0.5	9/5/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
ADN-2-10-11	'10-11	9/27/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
ADS-1-0-.5	'0-0.5	7/17/2001	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U			
ADS-10-0-0.5	'0-2	7/18/2001	0.00590 U	0.00590 U	0.00590 U	0.00590 U	0.00590 U			
ADS-101-0-1	'0-1	12/5/2006	0.0340 U	0.0330 U	0.0310 U	0.0280 U	0.0400 U		0.0706 J	
ADS-101-1-3	'1-3	12/5/2006	0.0280 U	0.0270 U	0.0250 U	0.0220 U	0.0320 U		0.0160 U	
ADS-102-0-1.5	'0-2	12/5/2006	0.0290 U	0.0280 U	0.0260 U	0.0240 U	0.0340 U		0.330	
ADS-102-7-8	'4-8	12/6/2006	0.0350 U	0.0330 U	0.0310 U	0.0280 U	0.0400 U		0.0200 U	
ADS-10-4-6	'4-6	7/18/2001	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U			
ADS-11-0-0.5	'0-2	7/18/2001	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U			
ADS-12-0.5-2	'0.5-2	7/18/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
ADS-12-0-0.5	'0-0.5	7/18/2001	0.00820 U	0.00820 U	0.00820 U	0.00820 U	0.00820 U			
ADS-2-0-0.5	'0-0.5	7/18/2001	0.00610 U	0.00610 U	0.00610 U	0.00610 U	0.00610 U			
ADS-2-4-6	'4-6	7/18/2001	0.00490 U	0.00490 U	0.00490 U	0.00490 U	0.00490 U			
ADS-3-0-0.5	'0-0.5	7/18/2001	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U			
ADS-4-0-0.5	'0-2	7/18/2001	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U			
ADS-4-12-14	'12-14	7/18/2001	0.00880 U	0.00880 U	0.00880 U	0.00880 U	0.00880 U			
ADS-5-0-0.5	'0-0.5	7/18/2001	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U			
ADS-5-4-6	'4-6	9/27/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U			
ADS-6-0.5-2	'0.5-2	7/18/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
ADS-6-0-0.5	'0-0.5	7/18/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
ADS-7-0-.5	'0-0.5	7/17/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
ADS-8-0-0.5	'0-0.5	7/18/2001	0.00960 U	0.00960 U	0.00960 U	0.00960 U	0.00960 U			
ADS-8-4-6	'4-6	7/18/2001	0.00910 U	0.00910 U	0.00910 U	0.00910 U	0.00910 U			
ADS-9-0-0.5	'0-0.5	7/18/2001	0.00930 U	0.00930 U	0.00930 U	0.00930 U	0.00930 U			
BLIND DUP	'0-0	8/21/2001	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U			
BSL-10-0-1	'0-1	9/21/2001	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U			
BSL-1-0-1	'0-1	9/20/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00110 J			
BSL-11-0-1	'0-1	9/26/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
BSL-12-0-1	'0-1	9/26/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
BSL-1-4-6	'4-6	9/20/2001	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U			
BSL-2-0-1	'0-1	9/21/2001	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U			
BSL-3-0-0.5	'0-0.5	9/20/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.000890 J			
BSL-4-0-1	'0-0.5	9/21/2001	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
BSL-4-4-6	'4-6	9/21/2001	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U			
BSL-5-0-.5	'0-0.5	9/21/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
BSL-6-0-1	'0-1	9/26/2001	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U			
BSL-6-1-2	'1-2	9/26/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U			
BSL-7-0-.5	'0-0.5	9/21/2001	0.00640 U	0.00640 U	0.00640 U	0.00640 U	0.00640 U			
BSL-8-0-1	'0-1	9/26/2001	0.00940 U	0.00940 U	0.00940 U	0.00940 U	0.00940 U			
BSL-9-.5-2	'0.5-2	9/21/2001	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U			
BSL-9-0-.5	'0-0.5	9/21/2001	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U			
BT-B1-0-0.5	'0-0.5	9/18/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
BT-B2-0.5-2	'0.5-2	9/18/2001	0.00420 U	0.00420 U	0.00420 U	0.00420 U	0.00420 U			
BT-B2-0-0.5	'0-0.5	9/18/2001	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.000690 J			
BT-B3-0-0.5	'0-0.5	9/18/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
BT-B4-0.5-2	'0.5-2	8/30/2001	0.00490 U	0.00490 U	0.00490 U	0.00490 U	0.00490 U			
BT-B4-0-0.5	'0-0.5	8/30/2001	0.00660 U	0.00660 U	0.00660 U	0.00660 U	0.00660 U			
BT-B5-0-.5	'0-0.5	10/2/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U			
BT-B6-0.5-2	'0.5-2	9/17/2001	0.00950 U	0.00950 U	0.00950 U	0.00950 U	0.00950 U			
BT-B6-0-0.5	'0-0.5	9/17/2001	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U			
CF-1-0-0.5	'0-0.5	8/31/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
CF-1-2-4	'2-4	8/31/2001	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U			
CF-2-0-0.5	'0-0.5	8/28/2001	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U			
CF-3-0.5-2	'0.5-2	8/28/2001	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U			
CF-3-0-0.5	'0-0.5	8/28/2001	0.00900 U	0.00900 U	0.00900 U	0.00900 U	0.00900 U			
CF-4-0-0.5	'0-0.5	8/28/2001	0.00640 U	0.00640 U	0.00640 U	0.00640 U	0.00640 U			
CF-5-0-0.5	'0-0.5	8/28/2001	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U			
CF-5-4-6	'4-6	8/28/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U			
CF-6-0-0.5	'0-0.5	8/28/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
CF-7-0-0.5	'0-0.5	8/28/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
CF-7-4-6	'4-6	8/28/2001	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U			
CF-8-0-0.5	'0-0.5	8/28/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U			
CF-9-0.5-2	'0.5-2	8/31/2001	0.00710 U	0.00710 U	0.00710 U	0.00710 U	0.00710 U			
CF-9-0-0.5	'0-0.5	8/31/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
DC-B12-0-0.5	'0-0.5	10/3/2001	0.00980 U	0.00980 U	0.00980 U	0.00980 U	0.00980 U			
DC-B12-2-4	'2-4	10/3/2001	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.000670 J			
DC-SS11-0-0.5	'0-0.5	9/17/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U			
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.00850 U	0.00850 U	0.00850 U	0.00850 U	0.00850 U			
DC-SS15-0-0.5	'0-0.5	9/17/2001	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U			
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.00550 U	0.00550 U	0.00550 U	0.00550 U	0.00550 U			
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.00590 U	0.00590 U	0.00590 U	0.00590 U	0.00590 U			
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.00780 U	0.00780 U	0.00780 U	0.00780 U	0.00780 U			
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.00640 U	0.00640 U	0.00640 U	0.00640 U	0.00640 U			
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.00470 U	0.00470 U	0.00470 U	0.00470 U	0.000680 J			
DSP-1-0-0.5	'0-0.5	10/3/2001	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U			
DSP-1-4-6	'4-6	11/19/2001	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U			
DSP-2-0-0.5	'0-0.5	9/4/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
DSP-3-0-0.5	'0-0.5	9/4/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
DSP-3-2-4	'2-4	9/4/2001	0.00500 U	0.00500 U	0.00500 U	0.00930	0.00500 U			
DSP-4-0-0.5	'0-0.5	9/4/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
DSP-4-4-6	'4-6	9/26/2001	0.00520 U	0.00520 U	0.00520 U	0.00540	0.00520 U			
DUP-01-010824	'0-0.5	8/24/2001	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U			
DUP-01-010831	'2-4	8/31/2001	0.00880 U	0.00880 U	0.00880 U	0.00880 U	0.00880 U			
DUP-01-010904	'0-0.5	9/4/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
DUP-01-010905	'8-10	9/5/2001	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U			
DUP-01-010906	'0-8	9/6/2001	0.00880 U	0.00880 U	0.00880 U	0.00880 U	0.00880 U			
DUP-01-010913	'0-0.5	9/13/2001	0.00910 U	0.00910 U	0.00910 U	0.00910 U	0.00910 U			
DUP-01-010917	'0-0.5	9/17/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
DUP-01-010926	'1-2	9/26/2001	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U			
DUP-01-010927	'4-6	9/27/2001	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U			
DUP-01-021001	'0-0	10/2/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U			
DUP-01-08 2201	'1.5-2	8/22/2001	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U			
DUP-01-121001	'0-0	10/12/2001	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U			
DUP-01-170402	'0-0	4/17/2002	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U			
DUP-02-010913	'0-0.5	9/13/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
DUP-02-010921	'0-1	9/21/2001	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U			
DUP-02-010926	'4-6	9/26/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
DUP060807	'0-0	6/8/2007	0.0240 U	0.0180 U	0.0180 U	0.0440 U	0.0290 U		0.0220 U	
DUP-1-010828	'0-0.5	8/28/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
DUP-1-010921	'0-0.5	9/21/2001	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U			
DUP110606	'15-17	11/6/2006	0.0410 U	0.0400 U	0.0370 U	0.0330 U	0.0480 U		0.0240 U	
DUP112006	'16-18	11/20/2006	0.100 U	0.100 U	0.0930 U	0.0830 U	0.120 U		0.0610 U	
DUP112106	'10-12	11/21/2006	0.110 U	0.110 U	0.100 U	0.0900 U	0.130 U		0.0660 U	
DUP-120506	'0-4	12/5/2006	0.0290 U	0.0280 U	0.0260 U	0.0240 U	0.0340 U		0.0170 U	
DUP-120606	'0-4	12/6/2006	0.0280 U	0.0270 U	0.0250 U	0.0220 U	0.0320 U		0.0160 U	
DUPE071801	'0-0.5	7/18/2001	0.00660 U	0.00660 U	0.00660 U	0.00660 U	0.00660 U			
EC-1	'0-1	8/21/2001	0.00640 U	0.00640 U	0.00640 U	0.00640 U	0.00640 U			
EC-2	'0-1	8/21/2001	0.00850 U	0.00850 U	0.00850 U	0.00850 U	0.00850 U			
EC-3	'0-1	8/21/2001	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U			
EC-4	'0-1	8/21/2001	0.00880 U	0.00880 U	0.00880 U	0.00880 U	0.00880 U			
EC-5	'0-1	8/21/2001	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U			
EC-6	'0-1	8/21/2001	0.00650 U	0.00650 U	0.00650 U	0.00650 U	0.00650 U			
EC-7	'0-1	8/21/2001	0.00740 U	0.00740 U	0.00740 U	0.00740 U	0.00740 U			
EC-8	'0-1	8/21/2001	0.00670 U	0.00670 U	0.00670 U	0.00670 U	0.00670 U			
EC-9	'0-1	8/21/2001	0.00640 U	0.00640 U	0.00640 U	0.00640 U	0.00640 U			
ESR-1-0-1	'0-0.5	9/4/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
ESR-1-4-6	'4-6	9/4/2001	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U			
HB-101A	'17-17	3/5/2007	0.0330 U	0.0320 U	0.0290 U	0.0260 U	0.0380 U		0.0190 U	
HB-102A	'0-0	3/13/2007	0.0920 U	0.0890 U	0.0830 U	0.0750 U	0.110 U		0.0540 U	
HB-102B	'0-0	3/14/2007	0.0360 U	0.0350 U	0.0330 U	0.0290 U	0.0420 U		0.184 J	
HB-102C	'0-0	3/14/2007	0.0310 U	0.0300 U	0.0280 U	0.0250 U	0.0360 U		0.0180 U	
H-B-103A	'17-17	2/20/2007	0.0530 U	0.0520 U	0.0480 U	0.0430 U	0.0620 U		0.101 J	
H-B-104A	'17-17	2/23/2007	0.0390 U	0.0370 U	0.0350 U	0.0310 U	0.0450 U		0.0500 J	
H-B-104B	'17-17	2/23/2007	0.0320 U	0.0310 U	0.0290 U	0.0260 U	0.0370 U		0.0246 J	
H-B-104C	'17-17	2/23/2007	0.0420 U	0.0400 U	0.0380 U	0.0340 U	0.0480 U		0.0650 J	0.380 JN
H-B-104D	'17-17	2/27/2007	0.0350 U	0.0340 U	0.0320 U	0.0280 U	0.0410 U		0.0210 U	
H-B-104E	'17-17	2/27/2007	0.0320 U	0.0310 U	0.0290 U	0.0260 U	0.0380 U		0.0190 U	
H-B-105C	'17-17	2/8/2007	0.0310 U	0.0300 U	0.0280 U	0.0250 U	0.0360 U		0.0180 U	
H-B-105D	'17-17	2/8/2007	0.0360 U	0.0350 U	0.0320 U	0.0290 U	0.0410 U		0.0210 U	
H-B-105E	'0-0	2/8/2007	0.0360 U	0.0350 U	0.0330 U	0.0290 U	0.0420 U		0.0210 U	

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
HB-1A	'6.75-6.75	4/18/2002	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U			
HB-3A	'5.25-5.25	4/17/2002	1.80 U	1.80 U	1.80 U	1.80 U	1.80 U			
HB-3B	'4.5-4.5	4/17/2002	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U			
HB-3C	'4.5-4.5	4/18/2002	0.00450 U	0.00450 U	0.00450 U	0.00450 U	0.00450 U			
HB-3D	'4.5-4.5	4/18/2002	0.00670 U	0.00670 U	0.00670 U	0.00670 U	0.00670 U			
HB-4A	'5.33-5.33	4/19/2002	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U			
HB-5A	'3-3	4/22/2002	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U			
HB-7A	'5-5	4/19/2002	0.00600 U	0.00600 U	0.00600 U	0.000810 J	0.00600 U	0.0240 JN		0.00680 JN
HB-8A	'3-3	4/23/2002	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U			
HB-8B	'4.83-4.83	4/23/2002	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U			
HB-8C	'5.5-5.5	4/23/2002	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U			
HB-9A	'4.75-4.75	4/24/2002	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
HF-B1-0-0.5	'0-0.5	9/10/2001	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U			
HF-B1-8-10	'8-10	9/10/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U			
HF-B2-0-0.5	'0-0.5	9/4/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
HF-B2-4-6	'4-6	9/4/2001	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U			
HF-B3-0-.5	'0-0.5	10/2/2001	0.00610 U	0.00610 U	0.00610 U	0.00610 U	0.00610 U			
HF-B3-8-10	'8-10	10/2/2001	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U			
IB-1-0-2	'0-2	4/8/2002	0.00590 U	0.00590 U	0.00590 U	0.00590 U	0.00590 U		0.00940 JN	
IB-1-4-6	'4-6	4/8/2002	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U			
IB-2-12-14	'12-14	4/8/2002	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
IB-2-4-6	'4-6	4/8/2002	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U			
IB-3-4-6	'4-6	4/8/2002	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U		0.0800 JN	
IB-3-8-10	'8-10	4/8/2002	0.00880 U	0.00880 U	0.00880 U	0.00880 U	0.00880 U			
LB-101-0-1	'0-1	12/6/2006	0.0320 U	0.0310 U	0.0290 U	0.0260 U	0.0370 U		0.0190 U	
LB-101-1-3	'1-3	12/6/2006	0.0260 U	0.0250 U	0.0230 U	0.0210 U	0.0300 U		0.0150 U	
LB-102-0-1	'0-3	12/6/2006	0.0350 U	0.0340 U	0.0310 U	0.0280 U	0.0400 U		0.0200 U	
LB-102-1-3	'3-7	12/6/2006	0.0290 U	0.0280 U	0.0260 U	0.0230 U	0.0330 U		0.0170 U	
LB-103-0-1	'0-1	12/6/2006	0.0330 U	0.0320 U	0.0300 U	0.0270 U	0.0390 U		0.0200 U	
LB-103-5-7	'5-7	12/6/2006	0.0530 J	0.0420 U	0.0390 U	0.0350 U	0.0500 U		0.0250 U	
LHP-101-0-1	'0-1	12/4/2006	0.0390 U	0.0370 U	0.0350 U	0.0310 U	0.0450 U		0.0230 U	
LHP-101-5-8	'4-8	12/4/2006	0.0690 U	0.0670 U	0.0620 U	0.0560 U	0.0800 U		0.0410 U	
LHP-102-0-1	'0-1	12/5/2006	0.0400 U	0.0390 U	0.0360 U	0.0320 U	0.0470 U		0.0240 U	

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
LHP-102-7-9	'7-9	12/5/2006	0.000790 U	0.000770 U	0.000720 U	0.000640 U	0.000920 U		0.000470 U	
LHP-102-7-9	'7-9	12/6/2006	0.0630 U	0.0610 U	0.0570 U	0.0510 U	0.0730 U		0.0370 U	
LHP-103-0-1	'0-1	12/5/2006	0.0340 U	0.0330 U	0.0310 U	0.0270 U	0.0390 U		0.0200 U	
LHP-103-1-3	'1-3	12/5/2006	0.0370 U	0.0360 U	0.0340 U	0.0300 U	0.0430 U		0.0220 U	
LHP-104-0-1	'0-1	12/5/2006	0.0320 U	0.0310 U	0.0290 U	0.0260 U	0.0380 U		0.0190 U	
LHP-104-7-9	'4-8	12/5/2006	0.0490 U	0.0470 U	0.0440 U	0.0400 U	0.0570 U		0.0290 U	
LHP-105-0-1	'0-1	12/5/2006	0.0300 U	0.0290 U	0.0270 U	0.0240 U	0.0350 U		0.0180 U	
LHP-105-1-3	'1-3	12/5/2006	0.0380 U	0.0370 U	0.0340 U	0.0300 U	0.0440 U		0.0220 U	
LHP-106-0-1	'0-1	12/4/2006	0.0290 U	0.0280 U	0.0260 U	0.0230 U	0.0330 U		0.0170 U	
LHP-106-1-3	'1-3	12/4/2006	0.0420 U	0.0400 U	0.0380 U	0.0340 U	0.0480 U		0.0250 U	
LHP-107-0-1	'0-1	12/5/2006	0.0270 U	0.0270 U	0.0250 U	0.0220 U	0.0320 U		0.0160 U	
LHP-107-5-7	'4-8	12/5/2006	0.0340 U	0.0330 U	0.0310 U	0.0270 U	0.0390 U		0.0200 U	
LHP-108-0-1	'0-1	12/6/2006	0.0350 U	0.0340 U	0.0320 U	0.0290 U	0.0410 U		0.0210 U	
LHP-108-3-7	'3-7	12/6/2006	0.0360 U	0.0350 U	0.0320 U	0.0290 U	0.0420 U		0.0210 U	
LHP-109-0-1	'0-1	12/6/2006	0.0360 U	0.0350 U	0.0330 U	0.0290 U	0.0420 U		0.0210 U	
LHP-109-7-9	'7-9	12/6/2006	0.0570 U	0.0550 U	0.0520 U	0.0460 U	0.0660 U		0.0340 U	
LHP-110-0-1	'0-1	12/4/2006	0.0620 U	0.0600 U	0.0560 U	0.0500 U	0.0710 U		0.0360 U	
LHP-111-0-1	'0-1	12/4/2006	0.0290 U	0.0280 U	0.0260 U	0.0240 U	0.0340 U		0.0170 U	
LHP-112-0-1	'0-1	12/4/2006	0.0300 U	0.0290 U	0.0280 U	0.0250 U	0.0350 U		0.0180 U	
LHP-113-0-1	'0-1	12/4/2006	0.0290 U	0.0280 U	0.0260 U	0.0230 U	0.0330 U		0.320	
LHP-114-0-1	'0-1	12/4/2006	0.0280 U	0.0270 U	0.0250 U	0.0230 U	0.0330 U		0.0170 U	
LHP-115-0-1	'0-1	12/4/2006	0.0280 U	0.0270 U	0.0250 U	0.0220 U	0.0320 U		0.0901 J	
LHP-116-0-1	'0-1	12/4/2006	0.0310 U	0.0300 U	0.0280 U	0.0250 U	0.0360 U		0.0180 U	
LHP-117-0-1	'0-1	12/4/2006	0.0330 U	0.0320 U	0.0300 U	0.0260 U	0.0380 U		0.0190 U	
LHP-118-0-1	'0-1	12/4/2006	0.0420 U	0.0400 U	0.0380 U	0.0340 U	0.0480 U		0.0250 U	
LHP-119-0-1	'0-1	12/4/2006	0.0400 U	0.0390 U	0.0360 U	0.0330 U	0.0470 U		0.0240 U	
LHP-120-0-1	'0-1	12/4/2006	0.0540 U	0.0520 U	0.0490 U	0.0440 U	0.0630 U		0.0320 U	
LHP-121-0-1	'0-1	12/6/2006	0.0400 U	0.0390 U	0.0360 U	0.0320 U	0.0460 U		0.0240 U	
LHP-122-0-1	'0-1	12/6/2006	0.0320 U	0.0310 U	0.0290 U	0.0260 U	0.0370 U		0.0190 U	
LHP-123-0-1	'0-1	12/4/2006	0.0350 U	0.0340 U	0.0320 U	0.0290 U	0.0410 U		0.0210 U	
LHP-124-.5-2	'0.5-2	10/27/2006	0.0460 U	0.0440 U	0.0410 U	0.0370 U	0.0530 U		0.0270 U	
LHP-124-2-4	'2-4	10/27/2006	0.0330 U	0.0320 U	0.0300 U	0.0260 U	0.0380 U		0.0190 U	
LHP-124-28-30	'28-30	10/31/2006	0.0450 U	0.0440 U	0.0410 U	0.0360 U	0.0520 U		0.0270 U	

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006	0.0360 U	0.0350 U	0.0330 U	0.0290 U	0.0420 U		0.0220 U	
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0430 U	0.0410 U	0.0390 U	0.0350 U	0.0500 U		0.0250 U	
LHP-125-12-14	'12-14	11/1/2006	0.0330 U	0.0320 U	0.0300 U	0.0270 U	0.0390 U		0.0200 U	
LHP-125-4-6	'4-6	10/27/2006	0.0380 U	0.0370 U	0.0350 U	0.0310 U	0.0440 U		0.0230 U	
LHP-126-10.5-12	'10.5-12	11/1/2006	0.290 UJ	0.280 UJ	0.260 UJ	0.230 UJ	0.330 UJ		0.170 UJ	
LHP-126-14-16	'14-16	11/1/2006	0.0350 U	0.0340 U	0.0320 U	0.0290 U	0.0410 U		0.0210 U	
LHP-126-2-4	'2-4	10/26/2006	0.0360 U	0.0350 U	0.0330 U	0.0300 U	0.0420 U		0.0220 U	
LHP-126-8-10	'9-10	10/26/2006	0.0540 U	0.0520 U	0.0490 U	0.0440 U	0.0630 U		0.0320 U	
LHP-127-0-1	'0-1	12/6/2006	0.0420 U	0.0400 U	0.0380 U	0.0340 U	0.0480 U		0.0250 U	
LHP-127-3-5	'3-5	12/6/2006	0.0320 U	0.0310 U	0.0290 U	0.0260 U	0.0370 U		0.0190 U	
LHP-128-0-1	'0-4	12/6/2006	0.0270 U	0.0260 U	0.0240 U	0.0220 U	0.0310 U		0.0160 U	
LHP-128-7-8	'17-17	12/6/2006	0.0570 U	0.0550 U	0.0520 U	0.0460 U	0.0660 U		0.0340 U	
LP-1-0-0.5	'0-0.5	8/27/2001	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U			
LP-10-0.5-2	'0.5-2	8/27/2001	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U			
LP-10-0-0.5	'0-0.5	8/27/2001	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U			
LP-101-11-13	'11-13	11/2/2006	0.100 U	0.0990 U	0.0920 U	0.0820 U	0.120 U		0.0600 U	
LP-101-14-16	'14-16	11/2/2006	0.0920 U	0.0890 U	0.0830 U	0.0740 U	0.110 U		0.0540 U	
LP-101-26-28	'26-28	11/2/2006	0.0330 U	0.0320 U	0.0300 U	0.0270 U	0.0380 U		0.0190 U	
LP-101-50-52	'50-52	11/2/2006	0.0330 U	0.0320 U	0.0300 U	0.0270 U	0.0390 U		0.0200 U	
LP-11-0-0.5	'0-0.5	8/27/2001	0.00670 U	0.00670 U	0.00670 U	0.00670 U	0.00670 U			
LP-12-0-0.5	'0-0.5	8/27/2001	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U			
LP-12-4-6	'4-6	8/27/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
LP-13-0-0.5	'0-0.5	8/24/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U			
LP-14-0.5-2	'0.5-2	8/24/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U			
LP-14-0-0.5	'0-0.5	8/24/2001	0.00640 U	0.00640 U	0.00640 U	0.00640 U	0.00640 U			
LP-15-0-0.5	'0-0.5	8/24/2001	0.00680 U	0.00680 U	0.00680 U	0.00680 U	0.00680 U			
LP-16-0.5-2	'0.5-2	8/27/2001	0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00440 U			
LP-16-0-0.5	'0-0.5	8/27/2001	0.00730 U	0.00730 U	0.00730 U	0.00730 U	0.00730 U			
LP-2-0.5-2	'0.5-2	8/28/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
LP-2-0-0.5	'0-0.5	8/28/2001	0.00690 U	0.00690 U	0.00690 U	0.00690 U	0.00690 U			
LP-3-0-0.5	'0-0.5	8/27/2001	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U			
LP-4 .5-2	'0.5-2	8/21/2001	0.640 U	0.640 U	0.640 U	0.640 U	0.640 U			
LP-4 0-.5	'0-0.5	8/21/2001	0.580 U	0.580 U	0.580 U	0.580 U	0.580 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U			
LP-6-0-0.5	'0-0.5	8/27/2001	0.00640 U	0.00640 U	0.00640 U	0.00640 U	0.00640 U			
LP-6-4-6	'4-6	8/27/2001	0.00660 U	0.00660 U	0.00660 U	0.00660 U	0.00660 U			
LP-7-0-0.5	'0-0.5	8/24/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U			
LP-8-0-0.5	'0-0.5	8/24/2001	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U			
LP-8-10-12	'10-12	8/24/2001	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U			
LP-9-0-0.5	'0-0.5	8/24/2001	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U			
MW-11D-12-14	'12-14	12/14/2006	0.110 U	0.110 U	0.100 U	0.0920 U	0.130 U		0.378 J	
MW-11D-14-16	'14-16	12/14/2006	0.0400 U	0.0390 U	0.0360 U	0.0320 U	0.0470 U		0.0240 U	
MW-11D-16-18	'16-18	12/14/2006	0.0380 U	0.0370 U	0.0340 U	0.0310 U	0.0440 U		0.920	
MW-14D-13-15	'13-15	11/14/2006	0.0440 U	0.0420 U	0.0400 U	0.0350 U	0.0510 U		0.0260 U	
MW-14D-17-19	'17-19	11/14/2006	0.0360 U	0.0340 U	0.0320 U	0.0290 U	0.0410 U		0.0210 U	
MW-16D-13-15	'13-15	11/17/2006	0.0310 U	0.0310 U	0.0290 U	0.0250 U	0.0370 U		0.0190 U	
MW-16D-17-19	'17-19	11/20/2006	0.0310 U	0.0300 U	0.0280 U	0.0250 U	0.0360 U		0.0180 U	
MW-17D-15-17	'15-17	11/10/2006	0.0410 U	0.0400 U	0.0380 U	0.0340 U	0.0480 U		0.0250 U	
MW-17D-17-19	'17-19	11/10/2006	0.0320 U	0.0310 U	0.0290 U	0.0260 U	0.0370 U		0.0190 U	
MW-18D-13-15	'13-15	11/13/2006	0.0480 U	0.0470 U	0.0440 U	0.0390 U	0.0560 U		0.0290 U	
MW-18D-17-19	'17-19	11/13/2006	0.0330 U	0.0320 U	0.0300 U	0.0270 U	0.0380 U		0.0190 U	
MW-20D-12-14	'12-14	11/9/2006	0.0510 U	0.0490 U	0.0460 U	0.0410 U	0.0590 U		0.0300 U	
MW-20D-32-34	'32-32.9	11/10/2006	0.0300 U	0.0290 U	0.0270 U	0.0240 U	0.0340 U		0.0180 U	
MW-20D-36-38	'36-38	11/10/2006	0.0360 U	0.0350 U	0.0320 U	0.0290 U	0.0420 U		0.0210 U	
MW-21D-13-15	'13-13.7	11/16/2006	0.0480 U	0.0470 U	0.0440 U	0.0390 U	0.0560 U		0.0290 U	
MW-21D-15-17	'15-17	11/16/2006	0.0340 U	0.0330 U	0.0300 U	0.0270 U	0.0390 U		0.0200 U	
MW-23D-15-17	'15-16	11/15/2006	0.0440 U	0.0430 U	0.0400 U	0.0360 U	0.0510 U		0.0260 U	
MW-23D-37-39	'37-37.9	11/15/2006	0.0420 U	0.0410 U	0.0380 U	0.0340 U	0.0490 U		0.0250 U	
MW-25D-10-12	'10-12	11/21/2006	0.110 U	0.110 U	0.0990 U	0.0890 U	0.130 U		0.0650 U	
MW-25D-33-35	'33-35	12/18/2006	0.0400 U	0.0380 U	0.0360 U	0.0320 U	0.0460 U		0.0230 U	
MW-26S-8-10	'8-10	10/26/2006	0.0440 U	0.0430 U	0.0400 U	0.0360 U	0.0510 U		1.00	
MW-6D-0-2	'0-2	11/8/2006	0.0320 U	0.0310 U	0.0290 U	0.0260 U	0.0380 U		0.0190 U	
MW-6D-12-14	'12-14	11/8/2006	0.140 U	0.140 U	0.130 U	0.120 U	0.170 U		0.151 J	
MW-6D-16-18	'16-18	11/20/2006	0.0920 U	0.0890 U	0.0830 U	0.0740 U	0.110 U		0.0540 U	
MW-6D-30-32	'30-32	11/21/2006	0.0430 U	0.0410 U	0.0390 U	0.0340 U	0.0490 U		0.0250 U	
PCA-1-0-.5	'0-2	7/17/2001	0.0390 U	0.0390 U	0.0390 U	0.0390 U	0.0390 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
PCA-1-4-6	'4-6	7/17/2001	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U			
PCA-2-0-.5	'0-0.5	7/17/2001	0.00490 U	0.00490 U	0.00490 U	0.00490 U	0.00490 U			
PCA-3-0-0.5	'0-0.5	9/13/2001	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U			
PCA-3-4-6	'4-6	9/13/2001	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U			
PCA-4-0-0.5	'0-0.5	9/13/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
PCA-4-4-6	'4-6	9/26/2001	0.00770 U	0.00770 U	0.00770 U	0.00770 U	0.00770 U			
PCA-5-0.5-2	'0.5-2	9/7/2001	0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00430 U			
PCA-5-0-0.5	'0-0.5	9/7/2001	0.00520 U	0.00520 U	0.00520 U	0.00480 J	0.00520 U			
PCA-6-0-0.5	'0-0.5	9/7/2001	0.00740	0.00630 U	0.00630 U	0.00630 U	0.00630 U			
RR-1 0-0.5	'0-0.5	8/22/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
RR-1 14-16	'14-16	8/22/2001	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.520 JN	2.60 JN	
RR-10 0-.5	'0-0.5	10/12/2001	0.00640 U	0.00640 U	0.00640 U	0.00640 U	0.00640 U			
RR-11 0-.5	'0-0.5	10/12/2001	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U			
RR-12 0-.5	'0-0.5	10/12/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
RR-2-0-0.5	'0-0.5	9/13/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U			
RR-2-8-10	'8-10	9/13/2001	0.00730 U	0.00730 U	0.00730 U	0.00730 U	0.00730 U			
RR-3-0-0.5	'0-0.5	9/13/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
RR-4-0-0.5	'0-0.5	9/10/2001	0.00820 U	0.00820 U	0.00820 U	0.00820 U	0.00820 U			
RR-4-6-8	'6-8	9/13/2001	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U			
RR-5-0-0.5	'0-0.5	9/10/2001	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U			
RR-6-0-0.5	'0-0.5	9/10/2001	0.00630 U	0.00630 U	0.00630 U	0.00630 U	0.00630 U			
RR-6-8-10	'8-10	9/10/2001	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U			
RR-7-0-0.5	'0-0.5	9/10/2001	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U			
RR-8-0-0.5	'0-0.5	9/26/2001	0.00740 U	0.00740 U	0.00740 U	0.00740 U	0.00740 U			
RR-8-6-8	'6-8	9/26/2001	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U			
RR-9 0-.5	'0-0.5	10/12/2001	0.00660 U	0.00660 U	0.00660 U	0.00660 U	0.00660 U			
SC-1	'0-1	8/21/2001	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U			
SC-2	'0-1	8/22/2001	0.00660 U	0.00660 U	0.00660 U	0.00660 U	0.00660 U			
SC-3	'0-1	8/22/2001	0.00690 U	0.00690 U	0.00690 U	0.00690 U	0.00690 U			
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U			
SILO-B1-6-8	'6-8	9/6/2001	0.0210 U	0.0210 U	0.0210 U	0.0210 U	0.0210 U			
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
SILO-B3-0-0.5	'0-0.5	9/6/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
SILO-B3-6-8	'6-8	9/6/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
SILO-B4-0-0.5	'0-0.5	9/6/2001	0.00800 U	0.00800 U	0.00800 U	0.00800 U	0.00800 U			
SPR-1-0-0.5	'0-0.5	9/5/2001	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U			
SPR-1-8-10	'8-10	9/5/2001	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U			
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.00900 U	0.00900 U	0.00900 U	0.00900 U	0.00900 U			
SPR-2A-8-10	'8-10	7/19/2001	0.980 U	0.980 U	0.980 U	0.980 U	0.980 U			
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U			
SPR-2B-10-12	'10-12	7/19/2001	1.10 U	1.10 U	1.10 U	1.10 U	1.10 U			
SPR-3 0-.5	'0-0.5	8/21/2001	0.430 U	0.430 U	0.430 U	0.430 U	0.430 U			
SPR-3 4-6	'4-6	8/21/2001	0.540 U	0.540 U	0.540 U	0.540 U	0.540 U			
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U			
SPR-4A-8-10	'8-10	7/19/2001	1.10 U	1.10 U	1.10 U	1.10 U	1.10 U			
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.00660 U	0.00660 U	0.00660 U	0.00660 U	0.00660 U			
SPR-4B-4-6	'4-6	8/23/2001	0.00770 U	0.00770 U	0.00770 U	0.00770 U	0.00770 U			
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
SPR-4C-4-6	'4-6	8/23/2001	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U		0.690 JN	
SPR-5-0-0.5	'0-0.5	9/5/2001	0.00600 U	0.00600 U	0.00600 U	0.00600 U	0.00600 U			
SPR-5-2-4	'2-4	9/5/2001	0.00820 U	0.00820 U	0.00820 U	0.00820 U	0.00820 U			
SPR-6-0.5-2	'0.5-2	9/13/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
SPR-6-0-0.5	'0-0.5	9/13/2001	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U			
SR-1-0-.5	'0-0.5	7/17/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
SR-2-0-.5	'0-0.5	7/17/2001	0.00670 U	0.00670 U	0.00670 U	0.00670 U	0.00670 U			
ST-1-0-0.5	'0-0.5	9/5/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U			
ST-2-0-0.5	'0-0.5	9/5/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
ST-3-0-0.5	'0-0.5	9/4/2001	0.00590 U	0.00590 U	0.00590 U	0.00590 U	0.00590 U			
ST-3-4-6	'4-6	9/4/2001	0.00770 U	0.00770 U	0.00770 U	0.00770 U	0.00770 U			
TES-1-0-1	'0-1	12/5/2006	0.0420 U	0.0410 U	0.0380 U	0.0340 U	0.0490 U			
TES-2-0-1	'0-1	12/4/2006	0.0480 U	0.0470 U	0.0440 U	0.0390 U	0.0560 U		0.0280 U	
TES-3-0-1	'0-1	12/4/2006	0.0410 U	0.0400 U	0.0370 U	0.0330 U	0.0480 U		0.0974 J	
TES-4-0-1	'0-1	12/5/2006	1.11	0.0470 U	0.0440 U	0.164 J	0.0570 U			
TLN-1 .5-2	'0.5-2	8/20/2001	0.00590 U	0.00590 U	0.00590 U	0.00590 U	0.00590 U			
TLN-1 0-.5	'0-0.5	8/20/2001	0.00560 U	0.00560 U	0.00560 U	0.00560 U	0.00560 U			
TLN-2-0-0.5	'0-0.5	7/19/2001	0.00760 U	0.00760 U	0.00760 U	0.00760 U	0.00760 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
TLN-3-2-4	'2-4	7/17/2001	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U			
TLN-4 0-.5	'0-0.5	8/20/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U			
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
TLN-5 .5-2	'0.5-2	8/20/2001	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U			
TLN-5 0-.5	'0-0.5	8/20/2001	0.00660 U	0.00660 U	0.00660 U	0.00660 U	0.00660 U			
TLN-5-4-6	'4-6	8/30/2001	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U			
TLN-6 0-.5	'0-0.5	8/20/2001	0.00480 U	0.00480 U	0.00480 U	0.00480 U	0.00480 U			
TLS-10 0-.5	'0-0.5	8/21/2001	0.520 U	0.520 U	0.520 U	0.520 U	0.520 U			
TLS-10 8-10	'8-10	8/21/2001	0.620 U	0.620 U	0.620 U	0.620 U	0.620 U			
TLS-1-0-0.5	'0-0.5	9/5/2001	0.0120 U	0.0120 U	0.0120 U	0.0120 U	0.0120 U			
TLS-11-0-0.5	'0-0.5	9/7/2001	0.00700 U	0.00700 U	0.00700 U	0.00700 U	0.00700 U			
TLS-2-0-0.5	'0-0.5	9/7/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
TLS-2-6-8	'6-8	9/7/2001	0.0180 U	0.0180 U	0.0180 U	0.0180 U	0.0180 U			
TLS-3 0-.5	'0-0.5	8/21/2001	0.460 U	0.460 U	0.460 U	0.460 U	0.460 U			
TLS-4-0-0.5	'0-0.5	9/7/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			
TLS-4-8-10	'8-10	9/7/2001	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U			
TLS-5 0-0.5	'0-0.5	8/21/2001	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U			
TLS-5-8-10	'8-10	9/26/2001	0.00980 U	0.00980 U	0.00980 U	0.00980 U	0.00980 U			
TLS-6 0-.5	'0-0.5	8/21/2001	0.470 U	0.470 U	0.470 U	0.470 U	0.470 U			
TLS-6-3-5	'3-5	9/26/2001	0.00530 U	0.00530 U	0.00530 U	0.00530 U	0.00530 U			
TLS-7 0-.5	'0-0.5	8/21/2001	0.550 U	0.550 U	0.550 U	0.550 U	0.550 U			
TLS-8-0-0.5	'0-0.5	9/7/2001	0.00570 U	0.00570 U	0.00570 U	0.00570 U	0.00570 U			
TLS-8-6-8	'6-8	9/7/2001	0.0110 U	0.0110 U	0.0110 U	0.0110 U	0.0110 U			
TLS-9 0-.5	'0-0.5	8/21/2001	0.450 U	0.450 U	0.450 U	0.450 U	0.450 U			
TP-105	'0-0	6/8/2007	0.0270 U	0.0210 U	0.0210 U	0.0500 U	0.0330 U		0.0250 U	
TP-105A	'0-0	6/8/2007	0.0230 U	0.0180 U	0.0180 U	0.0420 U	0.0280 U		0.0220 U	
TP-106-A	'0-0	6/8/2007	0.0280 U	0.0210 U	0.0210 U	0.0510 U	0.0340 U		0.0260 U	
TP-106-B	'0-0	6/8/2007	0.0180 U	0.0140 U	0.0140 U	0.0330 U	0.0220 U		0.0170 U	
WWT-1-0-0.5	'0-0.5	7/19/2001	0.00740 U	0.00740 U	0.00740 U	0.00740 U	0.00740 U			
WWT-101-15-17	'15-17	11/6/2006	0.0400 U	0.0390 U	0.0360 U	0.0320 U	0.0460 U		0.0240 U	
WWT-101-21-23	'21-23	11/6/2006	0.0330 U	0.0320 U	0.0300 U	0.0270 U	0.0390 U		0.0200 U	
WWT-1-12-14	'12-14	8/23/2001	0.00640 U	0.00640 U	0.00640 U	0.00730	0.0178			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001	0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00580 U			
WWT-2-12-14	'12-14	8/23/2001	0.00920 U	0.00920 U	0.00920 U	0.0277	0.00920 U			
WWT-3-0-0.5	'0-0.5	8/23/2001	0.00640 U	0.00640 U	0.00640 U	0.00640 U	0.00640 U			
WWT-3-12-14	'12-14	8/23/2001	0.00520 U	0.00520 U	0.00520 U	0.00520 U	0.00520 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
SRS			0_04		59000	3	5		
12K-B1-0.5-2	'0.5-2	9/6/2001				0.00480 U	0.00480 U		
12K-B1-0-0.5	'0-0.5	9/6/2001				0.00540 U	0.00540 U		
12K-B2-0.5-2	'0.5-2	9/6/2001				0.00460 U	0.00460 U		
12K-B2-0-0.5	'0-0.5	9/6/2001				0.00500 U	0.00500 U		
150K-1-0.5-2	'0.5-2	9/10/2001				0.00420 U	0.00420 U		
150K-1-0-0.5	'0-0.5	9/10/2001				0.00450 U	0.00450 U		
230-B1-0.5	'0-0.5	10/2/2001				0.00540 U	0.00540 U		
230-B10-0-0.5	'0-0.5	8/30/2001				0.0310 U	0.0310 U		
230-B10-1.5-2	'1.5-2	8/30/2001				0.00650 U	0.00650 U		
230-B11-0-0.5	'0-0.5	8/30/2001				0.00540 U	0.00540 U		
230-B11-1.5-2	'1.5-2	8/30/2001				0.00660 U	0.00660 U		
230-B1-4-6	'4-6	10/2/2001			7.50 JN	3.00 U	3.00 U		
230-B2-0-0.5	'0-0.5	8/30/2001				0.00540 U	0.00540 U		
230-B2-1.5-2	'1.5-2	8/30/2001				0.00440 U	0.00440 U		
230-B3-0-0.5	'0-0.5	8/30/2001				0.00700 U	0.00700 U		
230-B3-1.5-2	'1.5-2	8/30/2001				0.00480 U	0.00480 U		
230-B4-0-0.5	'0-0.5	8/30/2001				0.00500 U	0.00500 U		
230-B4-1.5-2	'1.5-2	8/30/2001				0.00580 U	0.00580 U		
230-B5-0-0.5	'0-0.5	9/13/2001				0.00580 U	0.00580 U		
230-B5-1.5-2	'1.5-2	9/13/2001				0.00610 U	0.00610 U		
230-B6 0-0.5	'0-0.5	8/22/2001				0.00500 U	0.00500 U		
230-B6 1.5-2	'1.5-2	8/22/2001				0.00490 U	0.00490 U		
230-B7 0-0.5	'0-0.5	8/22/2001				0.00760 U	0.00760 U		
230-B7 1.5-2	'1.5-2	8/22/2001				0.00520 U	0.00520 U		
230-B8 1.5-2	'1.5-2	8/22/2001				0.00640 U	0.00640 U		
230-B9 0-0.5	'0-0.5	8/22/2001				0.00560 U	0.00560 U		
230-B9 0-0.5	'0-0.5	8/22/2001				0.00510 U	0.00510 U		
230-B9 1.5-2	'1.5-2	8/22/2001				0.00520 U	0.00520 U		
231-B1-0-0.5	'0-0.5	10/5/2001				0.00620 U	0.00620 U		
231-B10-0-0.5	'0-0.5	9/17/2001				0.00960 U	0.00960 U		
231-B11-0-0.5	'0-0.5	9/19/2001			0.0150 JN	0.00600 U	0.00600 U		
231-B11-8-10	'8-10	9/19/2001				0.00920 U	0.00920 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001				0.00700 U	0.00700 U		
231-B13-0-0.5	'0-0.5	9/19/2001				0.0140 U	0.0140 U		
231-B13-8-10	'9-10	9/27/2001				12.0 U	12.0 U		
231-B14-0-0.5	'0-0.5	9/19/2001				0.00520 U	0.00520 U		
231-B2-0.5-2	'0.5-2	8/22/2001			0.0380 JN	0.00560 U	0.00560 U	0.0430 JN	0.0470 JN
231-B2-0-0.5	'0-0.5	8/22/2001				0.00580 U	0.00580 U		
231-B3-0-0.5	'0-0.5	8/22/2001				0.00580 U	0.00580 U		
231-B4-0-0.5	'0-0.5	8/30/2001			0.00880 JN	0.00870 U	0.00870 U		
231-B4-6-8	'6-8	9/27/2001				0.00520 U	0.00520 U		
231-B5-0.5-2	'0.5-2	9/19/2001				0.00540 U	0.00540 U		
231-B6-0-0.5	'0-0.5	9/27/2001				0.00540 U	0.00540 U		
231-B6-4-6	'4-6	9/27/2001				0.0140 U	0.0140 U		
231-B7-0-0.5	'0-0.5	9/13/2001				0.00570 U	0.00570 U		
231-B8-0-0.5	'0-0.5	9/27/2001				0.0270 UJ	0.0270 UJ		
231-B8-8-10	'8-10	9/27/2001			200. JN	4.80 U	4.80 U		
231-B9-0.5-2	'0.5-2	9/27/2001				0.00860 U	0.00860 U		
231-B9-0-0.5	'0-0.5	9/27/2001				0.00800 U	0.00800 U		
240-1-0-0.5	'0-0.5	9/26/2001				0.00520 U	0.00520 U		
240-1-8-10	'8-10	10/1/2001				0.00600 U	0.00600 U		
5K-B1-0-0.5	'0-0.5	10/1/2001				0.00540 U	0.00540 U		
5K-B2-0-0.5	'0-0.5	8/31/2001				0.00710 U	0.00710 U		
5K-B2-8-10	'8-10	8/31/2001				0.00480 U	0.00480 U		
5K-B3-0-0.5	'0-0.5	9/26/2001				0.00570 U	0.00570 U		
5K-B4-0-0.5	'0-0.5	10/1/2001				0.00650 U	0.00650 U		
5K-B4-4-6	'4-6	10/1/2001			0.540 JN	0.310 U	0.310 U		
5K-B5-0-0.5	'0-0.5	8/31/2001				0.00550 U	0.00550 U		
5K-B5-4-6	'4-6	9/26/2001			0.00770 JN	0.00510 U	0.00510 U		
AB-1-0-0.5	'0-0.5	9/4/2001				0.0210 U	0.0210 U		
AB-2-0.5-2	'0.5-2	9/4/2001			0.0340 JN	0.00760 U	0.00760 U		
AB-2-0-0.5	'0-0.5	9/4/2001				0.00500 U	0.00500 U		
ADN-1-0-0.5	'0-0.5	9/5/2001				0.00470 U	0.00470 U		
ADN-1-8-10	'8-10	9/5/2001			18.0 JN	0.880 U	0.880 U		
ADN-2-0-0.5	'0-0.5	9/5/2001				0.00480 U	0.00480 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
ADN-2-10-11	'10-11	9/27/2001				0.00520 U	0.00520 U		
ADS-1-0-.5	'0-0.5	7/17/2001				0.00760 U	0.00760 U		
ADS-10-0-0.5	'0-2	7/18/2001				0.00590 U	0.00590 U		
ADS-101-0-1	'0-1	12/5/2006	0.0330 U		0.100 J	0.0310 U	0.0320 U		
ADS-101-1-3	'1-3	12/5/2006	0.0260 U		0.0210 U	0.0250 U	0.0260 U		
ADS-102-0-1.5	'0-2	12/5/2006	0.0280 U		0.0724 J	0.0270 U	0.0270 U		
ADS-102-7-8	'4-8	12/6/2006	0.0330 U		0.229 J	0.0320 U	0.0320 U		
ADS-10-4-6	'4-6	7/18/2001				0.0120 U	0.0120 U		
ADS-11-0-0.5	'0-2	7/18/2001				0.00620 U	0.00620 U		
ADS-12-0.5-2	'0.5-2	7/18/2001				0.00560 U	0.00560 U		
ADS-12-0-0.5	'0-0.5	7/18/2001				0.00820 U	0.00820 U		
ADS-2-0-0.5	'0-0.5	7/18/2001				0.00610 U	0.00610 U		
ADS-2-4-6	'4-6	7/18/2001				0.00490 U	0.00490 U		
ADS-3-0-0.5	'0-0.5	7/18/2001				0.00570 U	0.00570 U		
ADS-4-0-0.5	'0-2	7/18/2001				0.00600 U	0.00600 U		
ADS-4-12-14	'12-14	7/18/2001				0.00880 U	0.00880 U		
ADS-5-0-0.5	'0-0.5	7/18/2001				0.00530 U	0.00530 U		
ADS-5-4-6	'4-6	9/27/2001				0.00500 U	0.00500 U		
ADS-6-0.5-2	'0.5-2	7/18/2001				0.00560 U	0.00560 U		
ADS-6-0-0.5	'0-0.5	7/18/2001				0.00480 U	0.00480 U		
ADS-7-0-.5	'0-0.5	7/17/2001				0.00520 U	0.00520 U		
ADS-8-0-0.5	'0-0.5	7/18/2001				0.00960 U	0.00960 U		
ADS-8-4-6	'4-6	7/18/2001				0.00910 U	0.00910 U		
ADS-9-0-0.5	'0-0.5	7/18/2001				0.00930 U	0.00930 U		
BLIND DUP	'0-0	8/21/2001				0.00620 U	0.00620 U		
BSL-10-0-1	'0-1	9/21/2001				0.00700 U	0.00700 U		
BSL-1-0-1	'0-1	9/20/2001				0.00580 U	0.00580 U		
BSL-11-0-1	'0-1	9/26/2001				0.00580 U	0.00580 U		
BSL-12-0-1	'0-1	9/26/2001				0.00520 U	0.00520 U		
BSL-1-4-6	'4-6	9/20/2001				0.00720 U	0.00720 U		
BSL-2-0-1	'0-1	9/21/2001				0.00760 U	0.00760 U		
BSL-3-0-0.5	'0-0.5	9/20/2001				0.00520 U	0.00520 U		
BSL-4-0-1	'0-0.5	9/21/2001				0.00720 U	0.00720 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
BSL-4-4-6	'4-6	9/21/2001				0.00570 J	0.0120 U		
BSL-5-0-.5	'0-0.5	9/21/2001				0.00520 U	0.00520 U		
BSL-6-0-1	'0-1	9/26/2001				0.00720 U	0.00720 U		
BSL-6-1-2	'1-2	9/26/2001				0.0180 U	0.0180 U		
BSL-7-0-.5	'0-0.5	9/21/2001				0.00640 U	0.00640 U		
BSL-8-0-1	'0-1	9/26/2001				0.00940 U	0.00940 U		
BSL-9-.5-2	'0.5-2	9/21/2001				0.0100 U	0.0100 U		
BSL-9-0-.5	'0-0.5	9/21/2001				0.00570 U	0.00570 U		
BT-B1-0-0.5	'0-0.5	9/18/2001				0.00560 U	0.00560 U		
BT-B2-0.5-2	'0.5-2	9/18/2001				0.00420 U	0.00420 U		
BT-B2-0-0.5	'0-0.5	9/18/2001				0.00460 U	0.00460 U		
BT-B3-0-0.5	'0-0.5	9/18/2001				0.00580 U	0.00580 U		
BT-B4-0.5-2	'0.5-2	8/30/2001				0.00490 U	0.00490 U		
BT-B4-0-0.5	'0-0.5	8/30/2001				0.00660 U	0.00660 U		
BT-B5-0-.5	'0-0.5	10/2/2001				0.00540 U	0.00540 U		
BT-B6-0.5-2	'0.5-2	9/17/2001				0.00950 U	0.00950 U		
BT-B6-0-0.5	'0-0.5	9/17/2001				0.00700 U	0.00700 U		
CF-1-0-0.5	'0-0.5	8/31/2001				0.00480 U	0.00480 U		
CF-1-2-4	'2-4	8/31/2001			0.00870 JN	0.0167	0.00800 U		
CF-2-0-0.5	'0-0.5	8/28/2001				0.00650 U	0.00650 U		
CF-3-0.5-2	'0.5-2	8/28/2001				0.0120 U	0.0120 U		
CF-3-0-0.5	'0-0.5	8/28/2001				0.00900 U	0.00900 U		
CF-4-0-0.5	'0-0.5	8/28/2001				0.00640 U	0.00640 U		
CF-5-0-0.5	'0-0.5	8/28/2001				0.00570 U	0.00570 U		
CF-5-4-6	'4-6	8/28/2001				0.00500 U	0.00500 U		
CF-6-0-0.5	'0-0.5	8/28/2001				0.00520 U	0.00520 U		
CF-7-0-0.5	'0-0.5	8/28/2001				0.00520 U	0.00520 U		
CF-7-4-6	'4-6	8/28/2001				0.00600 U	0.00600 U		
CF-8-0-0.5	'0-0.5	8/28/2001				0.00540 U	0.00540 U		
CF-9-0.5-2	'0.5-2	8/31/2001				0.00710 U	0.00710 U		
CF-9-0-0.5	'0-0.5	8/31/2001				0.00480 U	0.00480 U		
DC-B12-0-0.5	'0-0.5	10/3/2001				0.00980 U	0.00980 U		
DC-B12-2-4	'2-4	10/3/2001				0.00680 U	0.00680 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001				0.00480 U	0.00480 U		
DC-SS11-0-0.5	'0-0.5	9/17/2001				0.00430 U	0.00430 U		
DC-SS13-0-0.5	'0-0.5	9/17/2001				0.00850 U	0.00850 U		
DC-SS15-0-0.5	'0-0.5	9/17/2001				0.00600 U	0.00600 U		
DC-SS17-0-0.5	'0-0.5	9/17/2001				0.00550 U	0.00550 U		
DC-SS2-0-0.5	'0-0.5	9/17/2001				0.00520 U	0.00520 U		
DC-SS3-0-0.5	'0-0.5	9/17/2001				0.00590 U	0.00590 U		
DC-SS6-0-0.5	'0-0.5	9/17/2001				0.00780 U	0.00780 U		
DC-SS7-0-0.5	'0-0.5	9/17/2001				0.00640 U	0.00640 U		
DC-SS9-0-0.5	'0-0.5	9/17/2001				0.00470 U	0.00470 U		
DSP-1-0-0.5	'0-0.5	10/3/2001				0.00720 U	0.00720 U		
DSP-1-4-6	'4-6	11/19/2001				0.00620 U	0.00620 U		
DSP-2-0-0.5	'0-0.5	9/4/2001				0.00580 U	0.00580 U		
DSP-3-0-0.5	'0-0.5	9/4/2001				0.00560 U	0.00560 U		
DSP-3-2-4	'2-4	9/4/2001		0.00520 JN		0.00500 U	0.00500 U		
DSP-4-0-0.5	'0-0.5	9/4/2001				0.00560 U	0.00560 U		
DSP-4-4-6	'4-6	9/26/2001				0.00520 U	0.00520 U		
DUP-01-010824	'0-0.5	8/24/2001				0.00630 U	0.00630 U		
DUP-01-010831	'2-4	8/31/2001				0.00880 U	0.00880 U		
DUP-01-010904	'0-0.5	9/4/2001				0.00520 U	0.00520 U		
DUP-01-010905	'8-10	9/5/2001				0.00530 U	0.0199		
DUP-01-010906	'0-8	9/6/2001				0.00880 U	0.00880 U		
DUP-01-010913	'0-0.5	9/13/2001				0.00910 U	0.00910 U		
DUP-01-010917	'0-0.5	9/17/2001				0.00580 U	0.00580 U		
DUP-01-010926	'1-2	9/26/2001				0.0120 U	0.0120 U		
DUP-01-010927	'4-6	9/27/2001				0.00760 U	0.00760 U		
DUP-01-021001	'0-0	10/2/2001				0.00430 U	0.00430 U		
DUP-01-08 2201	'1.5-2	8/22/2001				0.00600 U	0.00600 U		
DUP-01-121001	'0-0	10/12/2001				0.00700 U	0.00700 U		
DUP-01-170402	'0-0	4/17/2002				1.40 U	1.40 U		
DUP-02-010913	'0-0.5	9/13/2001				0.00520 U	0.00520 U		
DUP-02-010921	'0-1	9/21/2001				0.00630 U	0.00630 U		
DUP-02-010926	'4-6	9/26/2001			0.00600 JN	0.00540 U	0.00540 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
DUP060807	'0-0	6/8/2007	0.0180 U		0.0170 U	0.0150 U	0.0260 U		
DUP-1-010828	'0-0.5	8/28/2001				0.00560 U	0.00560 U		
DUP-1-010921	'0-0.5	9/21/2001				0.00680 U	0.00680 U		
DUP110606	'15-17	11/6/2006	0.0390 U		0.0320 U	0.0380 U	0.0380 U		
DUP112006	'16-18	11/20/2006	0.0980 U		0.0790 U	0.0950 U	0.0960 U		
DUP112106	'10-12	11/21/2006	0.110 U		0.0850 U	0.100 U	0.100 U		
DUP-120506	'0-4	12/5/2006	0.0280 U		0.0220 U	0.0270 U	0.0270 U		
DUP-120606	'0-4	12/6/2006	0.0260 U		0.0210 U	0.0250 U	0.0260 U		
DUPE071801	'0-0.5	7/18/2001				0.00660 U	0.00660 U		
EC-1	'0-1	8/21/2001				0.00640 U	0.00640 U		
EC-2	'0-1	8/21/2001				0.00850 U	0.00850 U		
EC-3	'0-1	8/21/2001				0.00700 U	0.00700 U		
EC-4	'0-1	8/21/2001				0.00880 U	0.00880 U		
EC-5	'0-1	8/21/2001				0.00510 U	0.00510 U		
EC-6	'0-1	8/21/2001				0.00650 U	0.00650 U		
EC-7	'0-1	8/21/2001				0.00740 U	0.00740 U		
EC-8	'0-1	8/21/2001				0.00670 U	0.00670 U		
EC-9	'0-1	8/21/2001				0.00640 U	0.00640 U		
ESR-1-0-1	'0-0.5	9/4/2001				0.00560 U	0.00560 U		
ESR-1-4-6	'4-6	9/4/2001				0.00570 U	0.00570 U		
HB-101A	'17-17	3/5/2007	0.0310 U		0.0250 U	0.0300 U	0.0300 U		
HB-102A	'0-0	3/13/2007	0.0880 U		0.0710 U	0.0840 U	0.0860 U		
HB-102B	'0-0	3/14/2007	0.0350 U		0.877	0.0330 U	0.0340 U		
HB-102C	'0-0	3/14/2007	0.0300 U		0.0657 J	0.0290 U	0.0290 U		
H-B-103A	'17-17	2/20/2007	0.0510 U		0.914	0.0490 U	0.0500 U		
H-B-104A	'17-17	2/23/2007	0.0370 U		0.494	0.0350 U	0.0360 U		
H-B-104B	'17-17	2/23/2007	0.0310 U		0.220 J	0.0290 U	0.0300 U		
H-B-104C	'17-17	2/23/2007	0.0400 U		0.563	0.0380 U	0.0390 U		
H-B-104D	'17-17	2/27/2007	0.0330 U		0.0270 U	0.0320 U	0.0330 U		
H-B-104E	'17-17	2/27/2007	0.0310 U		0.0250 U	0.0300 U	0.0300 U		
H-B-105C	'17-17	2/8/2007	0.0300 U		0.0290 J	0.0290 U	0.0290 U		
H-B-105D	'17-17	2/8/2007	0.0340 U		0.0270 U	0.0330 U	0.0330 U		
H-B-105E	'0-0	2/8/2007	0.0350 U		0.0280 U	0.0330 U	0.0340 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
HB-1A	'6.75-6.75	4/18/2002				0.0100 U	0.0100 U		
HB-3A	'5.25-5.25	4/17/2002				1.80 U	1.80 U		
HB-3B	'4.5-4.5	4/17/2002				0.00440 U	0.00440 U		
HB-3C	'4.5-4.5	4/18/2002				0.00450 U	0.00450 U		
HB-3D	'4.5-4.5	4/18/2002				0.00670 U	0.00670 U		
HB-4A	'5.33-5.33	4/19/2002				0.00510 U	0.00510 U		
HB-5A	'3-3	4/22/2002				0.00510 U	0.00510 U		
HB-7A	'5-5	4/19/2002				0.00600 U	0.00600 U		
HB-8A	'3-3	4/23/2002				0.00680 U	0.00680 U		
HB-8B	'4.83-4.83	4/23/2002				0.00720 U	0.00720 U		
HB-8C	'5.5-5.5	4/23/2002			0.270 JN	0.00620 U	0.00620 U		
HB-9A	'4.75-4.75	4/24/2002				0.00560 U	0.00560 U		
HF-B1-0-0.5	'0-0.5	9/10/2001				0.0120 U	0.0120 U		
HF-B1-8-10	'8-10	9/10/2001				0.00400 U	0.00400 U		
HF-B2-0-0.5	'0-0.5	9/4/2001				0.00480 U	0.00480 U		
HF-B2-4-6	'4-6	9/4/2001				0.00600 U	0.00600 U		
HF-B3-0-.5	'0-0.5	10/2/2001				0.00610 U	0.00610 U		
HF-B3-8-10	'8-10	10/2/2001				0.00680 U	0.00680 U		
IB-1-0-2	'0-2	4/8/2002				0.00590 U	0.00590 U		
IB-1-4-6	'4-6	4/8/2002				0.00600 U	0.00600 U		
IB-2-12-14	'12-14	4/8/2002				0.00580 U	0.00580 U		
IB-2-4-6	'4-6	4/8/2002				0.00510 U	0.00510 U		
IB-3-4-6	'4-6	4/8/2002			0.0160 JN	0.00560 U	0.00560 U		
IB-3-8-10	'8-10	4/8/2002				0.00880 U	0.00880 U		
LB-101-0-1	'0-1	12/6/2006	0.0300 U		0.0250 U	0.0290 U	0.0300 U		
LB-101-1-3	'1-3	12/6/2006	0.0240 U		0.0200 U	0.0240 U	0.0240 U		
LB-102-0-1	'0-3	12/6/2006	0.0330 U		0.0270 U	0.0320 U	0.0320 U		
LB-102-1-3	'3-7	12/6/2006	0.0280 U		0.0220 U	0.0260 U	0.0270 U		
LB-103-0-1	'0-1	12/6/2006	0.0320 U		0.0260 U	0.0310 U	0.0310 U		
LB-103-5-7	'5-7	12/6/2006	0.0410 U		0.0330 U	0.0390 U	0.0400 U		
LHP-101-0-1	'0-1	12/4/2006	0.0370 U		0.0300 U	0.0350 U	0.0360 U		
LHP-101-5-8	'4-8	12/4/2006	0.0660 U		0.648	0.0630 U	0.0640 U		
LHP-102-0-1	'0-1	12/5/2006	0.0380 U		0.0310 U	0.0370 U	0.0380 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
LHP-102-7-9	'7-9	12/5/2006	0.000760 U		0.000610 U	0.000730 U	0.000740 U		
LHP-102-7-9	'7-9	12/6/2006	0.0600 U		0.292 J	0.0580 U	0.0590 U		
LHP-103-0-1	'0-1	12/5/2006	0.0320 U		0.0260 U	0.0310 U	0.0320 U		
LHP-103-1-3	'1-3	12/5/2006	0.0350 U		0.0280 U	0.0340 U	0.0350 U		
LHP-104-0-1	'0-1	12/5/2006	0.0310 U		0.0250 U	0.0300 U	0.0300 U		
LHP-104-7-9	'4-8	12/5/2006	0.0470 U		0.650	0.0450 U	0.0460 U		
LHP-105-0-1	'0-1	12/5/2006	0.0280 U		0.0230 U	0.0270 U	0.0280 U		
LHP-105-1-3	'1-3	12/5/2006	0.0360 U		0.0290 U	0.0350 U	0.0350 U		
LHP-106-0-1	'0-1	12/4/2006	0.0270 U		0.0220 U	0.0260 U	0.0270 U		
LHP-106-1-3	'1-3	12/4/2006	0.0400 U		0.0320 U	0.0380 U	0.0390 U		
LHP-107-0-1	'0-1	12/5/2006	0.0260 U		0.0210 U	0.0250 U	0.0260 U		
LHP-107-5-7	'4-8	12/5/2006	0.0320 U		0.0260 U	0.0310 U	0.0320 U		
LHP-108-0-1	'0-1	12/6/2006	0.0340 U		0.0270 U	0.0320 U	0.0330 U		
LHP-108-3-7	'3-7	12/6/2006	0.0340 U		0.0280 U	0.0330 U	0.0340 U		
LHP-109-0-1	'0-1	12/6/2006	0.0340 U		0.0280 U	0.0330 U	0.0340 U		
LHP-109-7-9	'7-9	12/6/2006	0.0550 U		0.0440 U	0.0520 U	0.0530 U		
LHP-110-0-1	'0-1	12/4/2006	0.0590 U		0.0470 U	0.0560 U	0.0580 U		
LHP-111-0-1	'0-1	12/4/2006	0.0280 U		0.0220 U	0.0270 U	0.0270 U		
LHP-112-0-1	'0-1	12/4/2006	0.0290 U		0.0230 U	0.0280 U	0.0280 U		
LHP-113-0-1	'0-1	12/4/2006	0.0280 U		0.302	0.0260 U	0.0270 U		
LHP-114-0-1	'0-1	12/4/2006	0.0270 U		0.0220 U	0.0260 U	0.0260 U		
LHP-115-0-1	'0-1	12/4/2006	0.0260 U		0.0912 J	0.0250 U	0.0260 U		
LHP-116-0-1	'0-1	12/4/2006	0.0290 U		0.0240 U	0.0280 U	0.0290 U		
LHP-117-0-1	'0-1	12/4/2006	0.0310 U		0.0250 U	0.0300 U	0.0310 U		
LHP-118-0-1	'0-1	12/4/2006	0.0400 U		0.0320 U	0.0380 U	0.0390 U		
LHP-119-0-1	'0-1	12/4/2006	0.0380 U		0.0310 U	0.0370 U	0.0380 U		
LHP-120-0-1	'0-1	12/4/2006	0.0520 U		0.0420 U	0.0500 U	0.0510 U		
LHP-121-0-1	'0-1	12/6/2006	0.0380 U		0.0310 U	0.0370 U	0.0370 U		
LHP-122-0-1	'0-1	12/6/2006	0.0310 U		0.0250 U	0.0290 U	0.0300 U		
LHP-123-0-1	'0-1	12/4/2006	0.0340 U		0.0270 U	0.0320 U	0.0330 U		
LHP-124-.5-2	'0.5-2	10/27/2006	0.0440 U		0.0350 U	0.0420 U	0.0430 U		
LHP-124-2-4	'2-4	10/27/2006	0.0310 U		0.0250 U	0.0300 U	0.0310 U		
LHP-124-28-30	'28-30	10/31/2006	0.0430 U		0.0350 U	0.0410 U	0.0420 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006	0.0350 U		0.0280 U	0.0330 U	0.0340 U		
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0410 U		0.0330 U	0.0390 U	0.0400 U		
LHP-125-12-14	'12-14	11/1/2006	0.0320 U		0.0260 U	0.0310 U	0.0310 U		
LHP-125-4-6	'4-6	10/27/2006	0.0360 U		0.0290 U	0.0350 U	0.0360 U		
LHP-126-10.5-12	'10.5-12	11/1/2006	0.270 UJ		0.220 UJ	0.260 UJ	0.270 UJ		
LHP-126-14-16	'14-16	11/1/2006	0.0340 U		0.0270 U	0.0320 U	0.0330 U		
LHP-126-2-4	'2-4	10/26/2006	0.0350 U		0.0280 U	0.0330 U	0.0340 U		
LHP-126-8-10	'9-10	10/26/2006	0.0510 U		0.0410 U	0.0490 U	0.0500 U		
LHP-127-0-1	'0-1	12/6/2006	0.0400 U		0.0320 U	0.0380 U	0.0390 U		
LHP-127-3-5	'3-5	12/6/2006	0.0310 U		0.0250 U	0.0290 U	0.0300 U		
LHP-128-0-1	'0-4	12/6/2006	0.0260 U		0.0210 U	0.0250 U	0.0250 U		
LHP-128-7-8	'17-17	12/6/2006	0.0540 U		0.840	0.0830 J	0.0530 U		
LP-1-0-0.5	'0-0.5	8/27/2001				0.00620 U	0.00620 U		
LP-10-0.5-2	'0.5-2	8/27/2001				0.00510 U	0.00510 U		
LP-10-0-0.5	'0-0.5	8/27/2001				0.00620 U	0.00620 U		
LP-101-11-13	'11-13	11/2/2006	0.0970 U		0.0780 U	0.0930 U	0.0950 U		
LP-101-14-16	'14-16	11/2/2006	0.0880 U		0.0710 U	0.0840 U	0.0860 U		
LP-101-26-28	'26-28	11/2/2006	0.0310 U		0.0250 U	0.0300 U	0.0310 U		
LP-101-50-52	'50-52	11/2/2006	0.0320 U		0.0260 U	0.0300 U	0.0310 U		
LP-11-0-0.5	'0-0.5	8/27/2001				0.00670 U	0.00670 U		
LP-12-0-0.5	'0-0.5	8/27/2001				0.00720 U	0.00720 U		
LP-12-4-6	'4-6	8/27/2001				0.00580 U	0.00580 U		
LP-13-0-0.5	'0-0.5	8/24/2001				0.00500 U	0.00500 U		
LP-14-0.5-2	'0.5-2	8/24/2001				0.00540 U	0.00540 U		
LP-14-0-0.5	'0-0.5	8/24/2001				0.00640 U	0.00640 U		
LP-15-0-0.5	'0-0.5	8/24/2001				0.00680 U	0.00680 U		
LP-16-0.5-2	'0.5-2	8/27/2001				0.00440 U	0.00440 U		
LP-16-0-0.5	'0-0.5	8/27/2001				0.00730 U	0.00730 U		
LP-2-0.5-2	'0.5-2	8/28/2001				0.00480 U	0.00480 U		
LP-2-0-0.5	'0-0.5	8/28/2001				0.00690 U	0.00690 U		
LP-3-0-0.5	'0-0.5	8/27/2001				0.00570 U	0.00570 U		
LP-4 .5-2	'0.5-2	8/21/2001				0.640 U	0.640 U		
LP-4 0-.5	'0-0.5	8/21/2001				0.580 U	0.580 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001				0.00620 U	0.00620 U		
LP-6-0-0.5	'0-0.5	8/27/2001				0.00640 U	0.00640 U		
LP-6-4-6	'4-6	8/27/2001				0.00660 U	0.00660 U		
LP-7-0-0.5	'0-0.5	8/24/2001				0.00500 U	0.00500 U		
LP-8-0-0.5	'0-0.5	8/24/2001				0.00620 U	0.00620 U		
LP-8-10-12	'10-12	8/24/2001				0.0120 U	0.0120 U		
LP-9-0-0.5	'0-0.5	8/24/2001				0.00700 U	0.00700 U		
MW-11D-12-14	'12-14	12/14/2006	0.110 U		0.295 J	0.100 U	0.110 U		
MW-11D-14-16	'14-16	12/14/2006	0.0380 U		0.0863 J	0.0370 U	0.0380 U		
MW-11D-16-18	'16-18	12/14/2006	0.0360 U		0.553	0.0350 U	0.0350 U		
MW-14D-13-15	'13-15	11/14/2006	0.0420 U		0.0340 U	0.0400 U	0.0410 U		
MW-14D-17-19	'17-19	11/14/2006	0.0340 U		0.0270 U	0.0330 U	0.0330 U		
MW-16D-13-15	'13-15	11/17/2006	0.0300 U		0.0854 J	0.0290 U	0.0290 U		
MW-16D-17-19	'17-19	11/20/2006	0.0290 U		0.0442 J	0.0280 U	0.0290 U		
MW-17D-15-17	'15-17	11/10/2006	0.0400 U		0.0320 U	0.0380 U	0.0390 U		
MW-17D-17-19	'17-19	11/10/2006	0.0310 U		0.0250 U	0.0290 U	0.0300 U		
MW-18D-13-15	'13-15	11/13/2006	0.0460 U		0.226 J	0.0440 U	0.0450 U		
MW-18D-17-19	'17-19	11/13/2006	0.0310 U		0.439	0.0300 U	0.0310 U		
MW-20D-12-14	'12-14	11/9/2006	0.0480 U		0.0390 U	0.0470 U	0.0470 U		
MW-20D-32-34	'32-32.9	11/10/2006	0.0280 U		0.0230 U	0.0270 U	0.0280 U		
MW-20D-36-38	'36-38	11/10/2006	0.0340 U		0.422	0.0964	0.0340 U		
MW-21D-13-15	'13-13.7	11/16/2006	0.0460 U		0.0370 U	0.0440 U	0.0450 U		
MW-21D-15-17	'15-17	11/16/2006	0.0320 U		0.0260 U	0.0310 U	0.0310 U		
MW-23D-15-17	'15-16	11/15/2006	0.0420 U		0.0340 U	0.0410 U	0.0410 U		
MW-23D-37-39	'37-37.9	11/15/2006	0.0400 U		0.0320 U	0.0390 U	0.0390 U		
MW-25D-10-12	'10-12	11/21/2006	0.100 U		0.0840 U	0.100 U	0.100 U		
MW-25D-33-35	'33-35	12/18/2006	0.0380 U		0.0310 U	0.0360 U	0.0370 U		
MW-26S-8-10	'8-10	10/26/2006	0.0420 U		0.610	0.0400 U	0.0410 U		
MW-6D-0-2	'0-2	11/8/2006	0.0310 U		0.0250 U	0.0300 U	0.0300 U		
MW-6D-12-14	'12-14	11/8/2006	0.140 U		10.4	0.130 U	0.140 U		
MW-6D-16-18	'16-18	11/20/2006	0.0880 U		0.0953 J	0.0840 U	0.0860 U		
MW-6D-30-32	'30-32	11/21/2006	0.0410 U		0.0330 U	0.0390 U	0.0400 U		
PCA-1-0-.5	'0-2	7/17/2001				0.0390 U	0.0390 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
PCA-1-4-6	'4-6	7/17/2001				0.00700 U	0.00700 U		
PCA-2-0-.5	'0-0.5	7/17/2001				0.00490 U	0.00490 U		
PCA-3-0-0.5	'0-0.5	9/13/2001				0.00600 U	0.00600 U		
PCA-3-4-6	'4-6	9/13/2001				0.0100 U	0.0100 U		
PCA-4-0-0.5	'0-0.5	9/13/2001				0.00560 U	0.00560 U		
PCA-4-4-6	'4-6	9/26/2001		0.150 JN		0.00770 U	0.00770 U		
PCA-5-0.5-2	'0.5-2	9/7/2001				0.00430 U	0.00430 U		
PCA-5-0-0.5	'0-0.5	9/7/2001				0.00520 U	0.00520 U		
PCA-6-0-0.5	'0-0.5	9/7/2001				0.00630 U	0.00630 U		
RR-1 0-0.5	'0-0.5	8/22/2001				0.00480 U	0.00480 U		
RR-1 14-16	'14-16	8/22/2001				0.290 U	0.290 U		
RR-10 0-.5	'0-0.5	10/12/2001				0.00640 U	0.00640 U		
RR-11 0-.5	'0-0.5	10/12/2001				0.00630 U	0.00630 U		
RR-12 0-.5	'0-0.5	10/12/2001				0.00520 U	0.00520 U		
RR-2-0-0.5	'0-0.5	9/13/2001				0.00500 U	0.00500 U		
RR-2-8-10	'8-10	9/13/2001				0.00730 U	0.00730 U		
RR-3-0-0.5	'0-0.5	9/13/2001				0.00560 U	0.00560 U		
RR-4-0-0.5	'0-0.5	9/10/2001				0.00820 U	0.00820 U		
RR-4-6-8	'6-8	9/13/2001				0.0100 U	0.0100 U		
RR-5-0-0.5	'0-0.5	9/10/2001				0.00720 U	0.00720 U		
RR-6-0-0.5	'0-0.5	9/10/2001				0.00630 U	0.00630 U		
RR-6-8-10	'8-10	9/10/2001				0.00400 U	0.00400 U		
RR-7-0-0.5	'0-0.5	9/10/2001				0.00510 U	0.00510 U		
RR-8-0-0.5	'0-0.5	9/26/2001				0.00740 U	0.00740 U		
RR-8-6-8	'6-8	9/26/2001				0.0240 U	0.0240 U		
RR-9 0-.5	'0-0.5	10/12/2001				0.00660 U	0.00660 U		
SC-1	'0-1	8/21/2001				0.00760 U	0.00760 U		
SC-2	'0-1	8/22/2001				0.00660 U	0.00660 U		
SC-3	'0-1	8/22/2001				0.00690 U	0.00690 U		
SILO-B1-0-0.5	'0-0.5	9/6/2001				0.00530 U	0.00530 U		
SILO-B1-6-8	'6-8	9/6/2001				0.0210 U	0.0210 U		
SILO-B2-0-0.5	'0-0.5	9/6/2001				0.00520 U	0.00520 U		
SILO-B3-0-0.5	'0-0.5	9/6/2001				0.00500 U	0.00500 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
SILO-B3-6-8	'6-8	9/6/2001				0.00480 U	0.00480 U		
SILO-B4-0-0.5	'0-0.5	9/6/2001				0.00800 U	0.00800 U		
SPR-1-0-0.5	'0-0.5	9/5/2001				0.00570 U	0.00570 U		
SPR-1-8-10	'8-10	9/5/2001				0.0120 U	0.0120 U		
SPR-2A-0-0.5	'0-0.5	7/19/2001				0.00900 U	0.00900 U		
SPR-2A-8-10	'8-10	7/19/2001				0.980 U	0.980 U		
SPR-2B-0-0.5	'0-0.5	7/19/2001				0.0120 U	0.0120 U		
SPR-2B-10-12	'10-12	7/19/2001				1.10 U	1.10 U		
SPR-3 0-.5	'0-0.5	8/21/2001				0.430 U	0.430 U		
SPR-3 4-6	'4-6	8/21/2001				0.540 U	0.540 U		
SPR-4A-0-0.5	'0-0.5	7/19/2001				0.00500 U	0.00500 U		
SPR-4A-8-10	'8-10	7/19/2001				1.10 U	1.10 U		
SPR-4B-0-0.5	'0-0.5	8/22/2001				0.00660 U	0.00660 U		
SPR-4B-4-6	'4-6	8/23/2001				0.00770 U	0.00770 U		
SPR-4C-0-0.5	'0-0.5	8/23/2001				0.00580 U	0.00580 U		
SPR-4C-4-6	'4-6	8/23/2001				0.360 U	0.360 U		
SPR-5-0-0.5	'0-0.5	9/5/2001				0.00600 U	0.00600 U		
SPR-5-2-4	'2-4	9/5/2001				0.00820 U	0.00820 U		
SPR-6-0.5-2	'0.5-2	9/13/2001				0.00580 U	0.00580 U		
SPR-6-0-0.5	'0-0.5	9/13/2001				0.00530 U	0.00530 U		
SR-1-0-.5	'0-0.5	7/17/2001				0.00580 U	0.00580 U		
SR-2-0-.5	'0-0.5	7/17/2001				0.00670 U	0.00670 U		
ST-1-0-0.5	'0-0.5	9/5/2001				0.00500 U	0.00500 U		
ST-2-0-0.5	'0-0.5	9/5/2001				0.00480 U	0.00480 U		
ST-3-0-0.5	'0-0.5	9/4/2001				0.00590 U	0.00590 U		
ST-3-4-6	'4-6	9/4/2001				0.00770 U	0.00770 U		
TES-1-0-1	'0-1	12/5/2006				0.0390 U	0.0390 U		
TES-2-0-1	'0-1	12/4/2006	0.0460 U		0.0370 U	0.0440 U	0.0450 U		
TES-3-0-1	'0-1	12/4/2006	0.0390 U		0.0700 J	0.0380 U	0.0380 U		
TES-4-0-1	'0-1	12/5/2006				0.0450 U	0.0460 U		
TLN-1 .5-2	'0.5-2	8/20/2001				0.00590 U	0.00590 U		
TLN-1 0-.5	'0-0.5	8/20/2001				0.00560 U	0.00560 U		
TLN-2-0-0.5	'0-0.5	7/19/2001				0.00760 U	0.00760 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001				0.00580 U	0.00580 U		
TLN-3-2-4	'2-4	7/17/2001				0.00500 U	0.00500 U		
TLN-4 0-.5	'0-0.5	8/20/2001				0.00540 U	0.00540 U		
TLN-4 0-.5 DUP	'0-0.5	8/20/2001				0.00480 U	0.00480 U		
TLN-5 .5-2	'0.5-2	8/20/2001				0.0120 U	0.0120 U		
TLN-5 0-.5	'0-0.5	8/20/2001				0.00660 U	0.00660 U		
TLN-5-4-6	'4-6	8/30/2001				0.00510 U	0.00510 U		
TLN-6 0-.5	'0-0.5	8/20/2001				0.00480 U	0.00480 U		
TLS-10 0-.5	'0-0.5	8/21/2001				0.520 U	0.520 U		
TLS-10 8-10	'8-10	8/21/2001				0.620 U	0.620 U		
TLS-1-0-0.5	'0-0.5	9/5/2001				0.0120 U	0.0120 U		
TLS-11-0-0.5	'0-0.5	9/7/2001				0.00700 U	0.00700 U		
TLS-2-0-0.5	'0-0.5	9/7/2001				0.00520 U	0.00520 U		
TLS-2-6-8	'6-8	9/7/2001				0.0180 U	0.0180 U		
TLS-3 0-.5	'0-0.5	8/21/2001				0.460 U	0.460 U		
TLS-4-0-0.5	'0-0.5	9/7/2001				0.00520 U	0.00520 U		
TLS-4-8-10	'8-10	9/7/2001				0.0100 U	0.0100 U		
TLS-5 0-0.5	'0-0.5	8/21/2001				0.00530 U	0.00530 U		
TLS-5-8-10	'8-10	9/26/2001				0.00980 U	0.00980 U		
TLS-6 0-.5	'0-0.5	8/21/2001				0.470 U	0.470 U		
TLS-6-3-5	'3-5	9/26/2001				0.00530 U	0.00530 U		
TLS-7 0-.5	'0-0.5	8/21/2001				0.550 U	0.550 U		
TLS-8-0-0.5	'0-0.5	9/7/2001				0.00570 U	0.00570 U		
TLS-8-6-8	'6-8	9/7/2001				0.0110 U	0.0110 U		
TLS-9 0-.5	'0-0.5	8/21/2001				0.450 U	0.450 U		
TP-105	'0-0	6/8/2007	0.0210 U		0.0200 U	0.0170 U	0.0300 U		
TP-105A	'0-0	6/8/2007	0.0180 U		0.0170 U	0.0150 U	0.0250 U		
TP-106-A	'0-0	6/8/2007	0.0210 U		0.0200 U	0.0170 U	0.0300 U		
TP-106-B	'0-0	6/8/2007	0.0140 U		0.0130 U	0.0110 U	0.0200 U		
WWT-1-0-0.5	'0-0.5	7/19/2001				0.00740 U	0.00740 U		
WWT-101-15-17	'15-17	11/6/2006	0.0380 U		0.0310 U	0.0370 U	0.0370 U		
WWT-101-21-23	'21-23	11/6/2006	0.0320 U		0.0260 U	0.0310 U	0.0310 U		
WWT-1-12-14	'12-14	8/23/2001			0.240 JN	0.00640 U	0.00640 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane mg/kg	1,2-Dichloro-1,1,2-Trifluoroethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Butadiene, 1,1,3,4-Tetrachloro- mg/kg	1,3-Butadiene, Pentachloro- mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001				0.00580 U	0.00580 U		
WWT-2-12-14	'12-14	8/23/2001			0.0960 JN	0.00920 U	0.00920 U		
WWT-3-0-0.5	'0-0.5	8/23/2001				0.00640 U	0.00640 U		
WWT-3-12-14	'12-14	8/23/2001				0.00520 U	0.00520 U		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
SRS				59000	12			44000			
12K-B1-0.5-2	'0.5-2	9/6/2001						0.0217			0.00480 U
12K-B1-0-0.5	'0-0.5	9/6/2001						0.0236			0.00540 U
12K-B2-0.5-2	'0.5-2	9/6/2001						0.00460 U			0.00460 U
12K-B2-0-0.5	'0-0.5	9/6/2001						0.00500 U			0.00500 U
150K-1-0.5-2	'0.5-2	9/10/2001						0.00420 U			0.00420 U
150K-1-0-0.5	'0-0.5	9/10/2001			0.0130 JN			0.00450 U			0.00450 U
230-B1-0.5	'0-0.5	10/2/2001						0.00540 U			0.00540 U
230-B10-0-0.5	'0-0.5	8/30/2001						0.0310 U			0.0310 U
230-B10-1.5-2	'1.5-2	8/30/2001						0.00650 U			0.00650 U
230-B11-0-0.5	'0-0.5	8/30/2001	0.0170 JN					0.00540 U			0.00540 U
230-B11-1.5-2	'1.5-2	8/30/2001						0.00660 U			0.00660 U
230-B1-4-6	'4-6	10/2/2001						3.00 U			3.00 U
230-B2-0-0.5	'0-0.5	8/30/2001						0.00540 U			0.00540 U
230-B2-1.5-2	'1.5-2	8/30/2001						0.00440 U			0.00440 U
230-B3-0-0.5	'0-0.5	8/30/2001						0.00700 U			0.00700 U
230-B3-1.5-2	'1.5-2	8/30/2001						0.00480 U			0.00480 U
230-B4-0-0.5	'0-0.5	8/30/2001						0.00500 U			0.00500 U
230-B4-1.5-2	'1.5-2	8/30/2001						0.00580 U			0.00580 U
230-B5-0-0.5	'0-0.5	9/13/2001						0.242			0.00580 U
230-B5-1.5-2	'1.5-2	9/13/2001						0.00610 U			0.00610 U
230-B6 0-0.5	'0-0.5	8/22/2001						0.0131			0.00500 U
230-B6 1.5-2	'1.5-2	8/22/2001						0.00490 U			0.00490 U
230-B7 0-0.5	'0-0.5	8/22/2001						0.0142			0.00760 U
230-B7 1.5-2	'1.5-2	8/22/2001						0.00520 U			0.00520 U
230-B8 1.5-2	'1.5-2	8/22/2001						0.00640 U			0.00640 U
230-B9 0-0.5	'0-0.5	8/22/2001						0.00560 U			0.00560 U
230-B9 0-0.5	'0-0.5	8/22/2001						0.00510 U			0.00510 U
230-B9 1.5-2	'1.5-2	8/22/2001						0.00520 U			0.00520 U
231-B1-0-0.5	'0-0.5	10/5/2001						0.0113			0.00620 U
231-B10-0-0.5	'0-0.5	9/17/2001						0.00960 U			0.00960 U
231-B11-0-0.5	'0-0.5	9/19/2001						0.00600 U			0.00600 U
231-B11-8-10	'8-10	9/19/2001						0.0692			0.00920 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001						0.00700 U			0.00700 U
231-B13-0-0.5	'0-0.5	9/19/2001						0.0591			0.0140 U
231-B13-8-10	'9-10	9/27/2001						12.0 U			12.0 U
231-B14-0-0.5	'0-0.5	9/19/2001						0.00520 U			0.00520 U
231-B2-0.5-2	'0.5-2	8/22/2001						0.00560 U			0.00560 U
231-B2-0-0.5	'0-0.5	8/22/2001						0.00580 U			0.00580 U
231-B3-0-0.5	'0-0.5	8/22/2001						0.00580 U			0.00580 U
231-B4-0-0.5	'0-0.5	8/30/2001						0.00870 U			0.00870 U
231-B4-6-8	'6-8	9/27/2001		0.0100 JN	0.0520 JN			0.0518			0.00520 U
231-B5-0.5-2	'0.5-2	9/19/2001						0.00540 U			0.00540 U
231-B6-0-0.5	'0-0.5	9/27/2001						0.140	0.0170 JN		0.00540 U
231-B6-4-6	'4-6	9/27/2001						0.0140 U			0.0140 U
231-B7-0-0.5	'0-0.5	9/13/2001						0.00570 U			0.00570 U
231-B8-0-0.5	'0-0.5	9/27/2001						0.0270 UJ			0.0270 UJ
231-B8-8-10	'8-10	9/27/2001		14.0 JN	48.0 JN			4.80 U			4.80 U
231-B9-0.5-2	'0.5-2	9/27/2001						0.00860 U			0.00860 U
231-B9-0-0.5	'0-0.5	9/27/2001						0.00800 U			0.00800 U
240-1-0-0.5	'0-0.5	9/26/2001						0.00520 U			0.00520 U
240-1-8-10	'8-10	10/1/2001						0.00600 U			0.00600 U
5K-B1-0-0.5	'0-0.5	10/1/2001						0.00540 U			0.00540 U
5K-B2-0-0.5	'0-0.5	8/31/2001						0.00710 U			0.00710 U
5K-B2-8-10	'8-10	8/31/2001						0.109			0.00480 U
5K-B3-0-0.5	'0-0.5	9/26/2001						0.00570 U			0.00570 U
5K-B4-0-0.5	'0-0.5	10/1/2001						0.00650 U			0.00650 U
5K-B4-4-6	'4-6	10/1/2001		0.520 JN	3.10 JN			0.310 U			0.310 U
5K-B5-0-0.5	'0-0.5	8/31/2001			0.0180 JN			0.0387			0.00550 U
5K-B5-4-6	'4-6	9/26/2001		0.00690 JN	0.0510 JN			0.00510 U			0.00510 U
AB-1-0-0.5	'0-0.5	9/4/2001						0.0210 U			0.0210 U
AB-2-0.5-2	'0.5-2	9/4/2001						0.0468			0.00760 U
AB-2-0-0.5	'0-0.5	9/4/2001						0.00500 U			0.00500 U
ADN-1-0-0.5	'0-0.5	9/5/2001						0.00470 U			0.00470 U
ADN-1-8-10	'8-10	9/5/2001		2.00 JN				0.880 U			0.880 U
ADN-2-0-0.5	'0-0.5	9/5/2001						0.00480 U			0.00480 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
ADN-2-10-11	'10-11	9/27/2001						0.00520 U			0.00520 U
ADS-1-0-.5	'0-0.5	7/17/2001						0.00760 U			0.00760 U
ADS-10-0-0.5	'0-2	7/18/2001						0.00590 U			0.00590 U
ADS-101-0-1	'0-1	12/5/2006		0.0429 J	0.0488 J			0.160 UJ			0.0790 U
ADS-101-1-3	'1-3	12/5/2006		0.0230 U	0.0210 U			0.130 UJ			0.0630 U
ADS-102-0-1.5	'0-2	12/5/2006		0.0240 U	0.0230 U			0.130 UJ			0.0670 U
ADS-102-7-8	'4-8	12/6/2006		0.0280 U	0.0270 U			0.160 UJ			0.0790 U
ADS-10-4-6	'4-6	7/18/2001						0.0120 U			0.0120 U
ADS-11-0-0.5	'0-2	7/18/2001						0.00620 U			0.00620 U
ADS-12-0.5-2	'0.5-2	7/18/2001						0.0154			0.00560 U
ADS-12-0-0.5	'0-0.5	7/18/2001						0.00820 U			0.00820 U
ADS-2-0-0.5	'0-0.5	7/18/2001						0.00610 U			0.00610 U
ADS-2-4-6	'4-6	7/18/2001						0.00490 U			0.00490 U
ADS-3-0-0.5	'0-0.5	7/18/2001						0.00570 U			0.00570 U
ADS-4-0-0.5	'0-2	7/18/2001						0.00600 U			0.00600 U
ADS-4-12-14	'12-14	7/18/2001						0.00880 U			0.00880 U
ADS-5-0-0.5	'0-0.5	7/18/2001						0.00530 U			0.00530 U
ADS-5-4-6	'4-6	9/27/2001						0.00500 U			0.00500 U
ADS-6-0.5-2	'0.5-2	7/18/2001						0.0236			0.00560 U
ADS-6-0-0.5	'0-0.5	7/18/2001						0.00480 U			0.00480 U
ADS-7-0-.5	'0-0.5	7/17/2001						0.0146			0.00520 U
ADS-8-0-0.5	'0-0.5	7/18/2001						0.00960 U			0.00960 U
ADS-8-4-6	'4-6	7/18/2001						0.00910 U			0.00910 U
ADS-9-0-0.5	'0-0.5	7/18/2001						0.00930 U			0.00930 U
BLIND DUP	'0-0	8/21/2001						0.00620 U			0.00620 U
BSL-10-0-1	'0-1	9/21/2001						0.00700 U			0.00700 U
BSL-1-0-1	'0-1	9/20/2001						0.0106			0.00580 U
BSL-11-0-1	'0-1	9/26/2001						0.00580 U			0.00580 U
BSL-12-0-1	'0-1	9/26/2001						0.00520 U			0.00520 U
BSL-1-4-6	'4-6	9/20/2001						0.00720 U			0.00720 U
BSL-2-0-1	'0-1	9/21/2001						0.00760 U			0.00760 U
BSL-3-0-0.5	'0-0.5	9/20/2001						0.00520 U			0.00520 U
BSL-4-0-1	'0-0.5	9/21/2001						0.0134			0.00720 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
BSL-4-4-6	'4-6	9/21/2001						0.0187			0.0120 U
BSL-5-0-.5	'0-0.5	9/21/2001						0.00520 U			0.00520 U
BSL-6-0-1	'0-1	9/26/2001						0.00720 U			0.00720 U
BSL-6-1-2	'1-2	9/26/2001						0.0180 U			0.0180 U
BSL-7-0-.5	'0-0.5	9/21/2001						0.00640 U			0.00640 U
BSL-8-0-1	'0-1	9/26/2001						0.00940 U			0.00940 U
BSL-9-.5-2	'0.5-2	9/21/2001						0.0100 U			0.0100 U
BSL-9-0-.5	'0-0.5	9/21/2001						0.00570 U			0.00570 U
BT-B1-0-0.5	'0-0.5	9/18/2001						0.0308			0.00560 U
BT-B2-0.5-2	'0.5-2	9/18/2001						0.00520			0.00420 U
BT-B2-0-0.5	'0-0.5	9/18/2001						0.00500			0.00460 U
BT-B3-0-0.5	'0-0.5	9/18/2001						0.00950			0.00580 U
BT-B4-0.5-2	'0.5-2	8/30/2001						0.00490 U			0.00490 U
BT-B4-0-0.5	'0-0.5	8/30/2001						0.00660 U			0.00660 U
BT-B5-0-.5	'0-0.5	10/2/2001						0.00940			0.00540 U
BT-B6-0.5-2	'0.5-2	9/17/2001						0.00950 U			0.00950 U
BT-B6-0-0.5	'0-0.5	9/17/2001						0.00700 U			0.00700 U
CF-1-0-0.5	'0-0.5	8/31/2001						0.00480 U			0.00480 U
CF-1-2-4	'2-4	8/31/2001						0.0296			0.00800 U
CF-2-0-0.5	'0-0.5	8/28/2001						0.00650 U			0.00650 U
CF-3-0.5-2	'0.5-2	8/28/2001						0.0120 U			0.0120 U
CF-3-0-0.5	'0-0.5	8/28/2001						0.00900 U			0.00900 U
CF-4-0-0.5	'0-0.5	8/28/2001						0.00640 U			0.00640 U
CF-5-0-0.5	'0-0.5	8/28/2001						0.00570 U			0.00570 U
CF-5-4-6	'4-6	8/28/2001						0.00500 U			0.00500 U
CF-6-0-0.5	'0-0.5	8/28/2001						0.00520 U			0.00520 U
CF-7-0-0.5	'0-0.5	8/28/2001						0.00520 U			0.00520 U
CF-7-4-6	'4-6	8/28/2001						0.00600 U			0.00600 U
CF-8-0-0.5	'0-0.5	8/28/2001						0.00540 U			0.00540 U
CF-9-0.5-2	'0.5-2	8/31/2001						0.00710 U			0.00710 U
CF-9-0-0.5	'0-0.5	8/31/2001						0.00480 U			0.00480 U
DC-B12-0-0.5	'0-0.5	10/3/2001						0.00980 U			0.00980 U
DC-B12-2-4	'2-4	10/3/2001						0.0142			0.00680 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001						0.0314			0.00480 U
DC-SS11-0-0.5	'0-0.5	9/17/2001						0.00810		0.00700 JNB	0.00430 U
DC-SS13-0-0.5	'0-0.5	9/17/2001						0.0339			0.00850 U
DC-SS15-0-0.5	'0-0.5	9/17/2001				0.00880 JN		0.0244			0.00600 U
DC-SS17-0-0.5	'0-0.5	9/17/2001						0.00550 U			0.00550 U
DC-SS2-0-0.5	'0-0.5	9/17/2001						0.0319			0.00520 U
DC-SS3-0-0.5	'0-0.5	9/17/2001						0.0269			0.00590 U
DC-SS6-0-0.5	'0-0.5	9/17/2001						0.0264			0.00780 U
DC-SS7-0-0.5	'0-0.5	9/17/2001						0.0482			0.00640 U
DC-SS9-0-0.5	'0-0.5	9/17/2001						0.0166			0.00470 U
DSP-1-0-0.5	'0-0.5	10/3/2001						0.00720 U			0.00720 U
DSP-1-4-6	'4-6	11/19/2001						0.00620 U			0.00620 U
DSP-2-0-0.5	'0-0.5	9/4/2001						0.00580 U			0.00580 U
DSP-3-0-0.5	'0-0.5	9/4/2001						0.00560 U			0.00560 U
DSP-3-2-4	'2-4	9/4/2001						0.00500 U			0.00500 U
DSP-4-0-0.5	'0-0.5	9/4/2001						0.00560 U			0.00560 U
DSP-4-4-6	'4-6	9/26/2001						0.00520 U			0.00520 U
DUP-01-010824	'0-0.5	8/24/2001						0.00630 U			0.00630 U
DUP-01-010831	'2-4	8/31/2001						0.00880 U			0.00880 U
DUP-01-010904	'0-0.5	9/4/2001						0.00520 U			0.00520 U
DUP-01-010905	'8-10	9/5/2001		0.0200 JN	0.0530 JN			0.00530 U			0.00530 U
DUP-01-010906	'0-8	9/6/2001						0.0547			0.00880 U
DUP-01-010913	'0-0.5	9/13/2001						0.00910 U			0.00910 U
DUP-01-010917	'0-0.5	9/17/2001						0.00580 U			0.00580 U
DUP-01-010926	'1-2	9/26/2001						0.0120 U			0.0120 U
DUP-01-010927	'4-6	9/27/2001						0.00760 U			0.00760 U
DUP-01-021001	'0-0	10/2/2001						0.0117			0.00430 U
DUP-01-08 2201	'1.5-2	8/22/2001						0.00600 U			0.00600 U
DUP-01-121001	'0-0	10/12/2001						0.00700 U			0.00700 U
DUP-01-170402	'0-0	4/17/2002						2.80 U			1.40 U
DUP-02-010913	'0-0.5	9/13/2001						0.00520 U			0.00520 U
DUP-02-010921	'0-1	9/21/2001						0.00630 U			0.00630 U
DUP-02-010926	'4-6	9/26/2001						0.00540 U			0.00540 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
DUP060807	'0-0	6/8/2007		0.0230 U	0.0190 U			0.180 U			0.110 U
DUP-1-010828	'0-0.5	8/28/2001						0.00560 U			0.00560 U
DUP-1-010921	'0-0.5	9/21/2001						0.00680 U			0.00680 U
DUP110606	'15-17	11/6/2006		0.0340 U	0.0320 U			0.190 UJ			0.0940 U
DUP112006	'16-18	11/20/2006		0.0850 U	0.0800 U			0.480 UJ			0.240 U
DUP112106	'10-12	11/21/2006		0.0920 U	0.0860 U			0.510 UJ			0.260 U
DUP-120506	'0-4	12/5/2006		0.0240 U	0.0230 U			0.130 UJ			0.0670 U
DUP-120606	'0-4	12/6/2006		0.0230 U	0.0210 U			0.130 UJ			0.0630 U
DUPE071801	'0-0.5	7/18/2001						0.00660 U			0.00660 U
EC-1	'0-1	8/21/2001						0.00640 U			0.00640 U
EC-2	'0-1	8/21/2001						0.00850 U			0.00850 U
EC-3	'0-1	8/21/2001						0.00700 U			0.00700 U
EC-4	'0-1	8/21/2001						0.00880 U			0.00880 U
EC-5	'0-1	8/21/2001						0.00510 U			0.00510 U
EC-6	'0-1	8/21/2001						0.00650 U			0.00650 U
EC-7	'0-1	8/21/2001						0.00740 U			0.00740 U
EC-8	'0-1	8/21/2001						0.00670 U			0.00670 U
EC-9	'0-1	8/21/2001						0.0324			0.00640 U
ESR-1-0-1	'0-0.5	9/4/2001						0.00560 U			0.00560 U
ESR-1-4-6	'4-6	9/4/2001						0.00570 U			0.00570 U
HB-101A	'17-17	3/5/2007		0.0270 U	0.0250 U			0.150 U			0.0750 U
HB-102A	'0-0	3/13/2007		0.0760 U	0.0720 U			0.420 U			0.210 U
HB-102B	'0-0	3/14/2007		0.0300 U	0.140 J			0.170 U			0.0830 U
HB-102C	'0-0	3/14/2007		0.0260 U	0.0240 U			0.140 U			0.0710 U
H-B-103A	'17-17	2/20/2007		0.0440 U	0.114 J			0.250 U			0.120 U
H-B-104A	'17-17	2/23/2007		0.0373 J	0.0879 J			0.180 UJ			0.0880 U
H-B-104B	'17-17	2/23/2007		0.0260 U	0.0372 J			0.150 UJ			0.0730 U
H-B-104C	'17-17	2/23/2007		0.0498 J	0.0943 J			0.190 UJ			0.0960 U
H-B-104D	'17-17	2/27/2007		0.0290 U	0.0270 U			0.160 U			0.0800 U
H-B-104E	'17-17	2/27/2007		0.0270 U	0.0250 U			0.150 U			0.0750 U
H-B-105C	'17-17	2/8/2007		0.0260 U	0.0240 U			0.140 UJ			0.0710 U
H-B-105D	'17-17	2/8/2007		0.0290 U	0.0280 U			0.160 UJ			0.0820 U
H-B-105E	'0-0	2/8/2007		0.0300 U	0.0280 U			0.170 UJ			0.0830 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
HB-1A	'6.75-6.75	4/18/2002						0.227			0.0100 U
HB-3A	'5.25-5.25	4/17/2002						3.70 U			1.80 U
HB-3B	'4.5-4.5	4/17/2002						0.00870 U			0.00440 U
HB-3C	'4.5-4.5	4/18/2002						0.00900 U			0.00450 U
HB-3D	'4.5-4.5	4/18/2002						0.00890 J			0.00670 U
HB-4A	'5.33-5.33	4/19/2002						0.0100 U			0.00510 U
HB-5A	'3-3	4/22/2002						0.0100 U			0.00510 U
HB-7A	'5-5	4/19/2002						0.0120 U			0.00600 U
HB-8A	'3-3	4/23/2002						0.0140 U			0.00680 U
HB-8B	'4.83-4.83	4/23/2002						0.0140 U			0.00720 U
HB-8C	'5.5-5.5	4/23/2002		0.0450 JN				0.0195			0.00620 U
HB-9A	'4.75-4.75	4/24/2002		0.0300 JN				0.0110 U			0.00560 U
HF-B1-0-0.5	'0-0.5	9/10/2001						0.0120 U			0.0120 U
HF-B1-8-10	'8-10	9/10/2001						0.00400 U			0.00400 U
HF-B2-0-0.5	'0-0.5	9/4/2001						0.00480 U			0.00480 U
HF-B2-4-6	'4-6	9/4/2001						0.00600 U			0.00600 U
HF-B3-0-.5	'0-0.5	10/2/2001						0.0255			0.00610 U
HF-B3-8-10	'8-10	10/2/2001						0.0189			0.00680 U
IB-1-0-2	'0-2	4/8/2002						0.0120 U			0.00590 U
IB-1-4-6	'4-6	4/8/2002						0.0120 U			0.00600 U
IB-2-12-14	'12-14	4/8/2002						0.0120 U			0.00580 U
IB-2-4-6	'4-6	4/8/2002						0.00950 J			0.00510 U
IB-3-4-6	'4-6	4/8/2002		0.0190 JN				0.0110 U			0.00560 U
IB-3-8-10	'8-10	4/8/2002						0.00810 J			0.00880 U
LB-101-0-1	'0-1	12/6/2006		0.0260 U	0.0250 U			0.150 UJ			0.0730 U
LB-101-1-3	'1-3	12/6/2006		0.0210 U	0.0200 U			0.120 UJ			0.0590 U
LB-102-0-1	'0-3	12/6/2006		0.0290 U	0.0270 U			0.160 UJ			0.0800 U
LB-102-1-3	'3-7	12/6/2006		0.0240 U	0.0220 U			0.130 UJ			0.0660 U
LB-103-0-1	'0-1	12/6/2006		0.0280 U	0.0260 U			0.150 UJ			0.0770 U
LB-103-5-7	'5-7	12/6/2006		0.0350 U	0.0330 U			0.200 UJ			0.0980 U
LHP-101-0-1	'0-1	12/4/2006		0.0320 U	0.0300 U			0.180 UJ			0.0890 U
LHP-101-5-8	'4-8	12/4/2006		0.0573 J	0.0571 J			0.320 UJ			0.160 U
LHP-102-0-1	'0-1	12/5/2006		0.0330 U	0.0310 U			0.190 UJ			0.0920 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
LHP-102-7-9	'7-9	12/5/2006		0.000650 U	0.000620 U			0.00370 UJ			0.00180 U
LHP-102-7-9	'7-9	12/6/2006		0.0520 U	0.0490 U			0.290 UJ			0.140 U
LHP-103-0-1	'0-1	12/5/2006		0.0280 U	0.0260 U			0.160 UJ			0.0770 U
LHP-103-1-3	'1-3	12/5/2006		0.0310 U	0.0290 U			0.170 UJ			0.0850 U
LHP-104-0-1	'0-1	12/5/2006		0.0270 U	0.0250 U			0.150 UJ			0.0740 U
LHP-104-7-9	'4-8	12/5/2006		0.0400 U	0.0395 J			0.230 UJ			0.110 U
LHP-105-0-1	'0-1	12/5/2006		0.0250 U	0.0230 U			0.140 UJ			0.0680 U
LHP-105-1-3	'1-3	12/5/2006		0.0310 U	0.0290 U			0.170 UJ			0.0860 U
LHP-106-0-1	'0-1	12/4/2006		0.0240 U	0.0220 U			0.130 UJ			0.0660 U
LHP-106-1-3	'1-3	12/4/2006		0.0340 U	0.0320 U			0.190 UJ			0.0960 U
LHP-107-0-1	'0-1	12/5/2006		0.0230 U	0.0210 U			0.130 UJ			0.0630 U
LHP-107-5-7	'4-8	12/5/2006		0.0280 U	0.0260 U			0.160 UJ			0.0780 U
LHP-108-0-1	'0-1	12/6/2006		0.0290 U	0.0270 U			0.160 UJ			0.0810 U
LHP-108-3-7	'3-7	12/6/2006		0.0300 U	0.0280 U			0.170 UJ			0.0820 U
LHP-109-0-1	'0-1	12/6/2006		0.0300 U	0.0280 U			0.170 UJ			0.0830 U
LHP-109-7-9	'7-9	12/6/2006		0.0470 U	0.0440 U			0.260 UJ			0.130 U
LHP-110-0-1	'0-1	12/4/2006		0.0510 U	0.0480 U			0.280 UJ			0.140 U
LHP-111-0-1	'0-1	12/4/2006		0.0240 U	0.0230 U			0.130 UJ			0.0670 U
LHP-112-0-1	'0-1	12/4/2006		0.0250 U	0.0240 U			0.140 UJ			0.0700 U
LHP-113-0-1	'0-1	12/4/2006		0.0368 J	0.0872 J			0.130 UJ			0.0660 U
LHP-114-0-1	'0-1	12/4/2006		0.0230 U	0.0220 U			0.130 UJ			0.0650 U
LHP-115-0-1	'0-1	12/4/2006		0.0230 U	0.0224 J			0.130 UJ			0.0640 U
LHP-116-0-1	'0-1	12/4/2006		0.0250 U	0.0240 U			0.140 UJ			0.0710 U
LHP-117-0-1	'0-1	12/4/2006		0.0270 U	0.0250 U			0.150 UJ			0.0750 U
LHP-118-0-1	'0-1	12/4/2006		0.0340 U	0.0320 U			0.190 UJ			0.0960 U
LHP-119-0-1	'0-1	12/4/2006		0.0330 U	0.0310 U			0.190 UJ			0.0920 U
LHP-120-0-1	'0-1	12/4/2006		0.0450 U	0.0420 U			0.250 UJ			0.120 U
LHP-121-0-1	'0-1	12/6/2006		0.0330 U	0.0310 U			0.180 UJ			0.0920 U
LHP-122-0-1	'0-1	12/6/2006		0.0260 U	0.0250 U			0.150 UJ			0.0740 U
LHP-123-0-1	'0-1	12/4/2006		0.0290 U	0.0270 U			0.160 UJ			0.0810 U
LHP-124-.5-2	'0.5-2	10/27/2006		0.0380 U	0.0360 U			0.210 UJ			0.110 U
LHP-124-2-4	'2-4	10/27/2006		0.0270 U	0.0250 U			0.150 UJ			0.0750 U
LHP-124-28-30	'28-30	10/31/2006		0.0370 U	0.0350 U			0.210 U			0.100 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006		0.0300 U	0.0280 U			0.170 UJ			0.0840 U
LHP-125-10.5-12	'10.5-12	11/1/2006		0.0350 U	0.0330 U			0.200 U			0.0980 U
LHP-125-12-14	'12-14	11/1/2006		0.0270 U	0.0260 U			0.150 U			0.0770 U
LHP-125-4-6	'4-6	10/27/2006		0.0310 U	0.0300 U			0.180 UJ			0.0880 U
LHP-126-10.5-12	'10.5-12	11/1/2006		0.240 UJ	0.220 UJ			1.30 UJ			0.660 UJ
LHP-126-14-16	'14-16	11/1/2006		0.0290 U	0.0270 U			0.160 U			0.0810 U
LHP-126-2-4	'2-4	10/26/2006		0.0300 U	0.0280 U			0.170 U			0.0840 U
LHP-126-8-10	'9-10	10/26/2006		0.0440 U	0.0420 U			0.250 U			0.120 U
LHP-127-0-1	'0-1	12/6/2006		0.0340 U	0.0320 U			0.190 UJ			0.0950 U
LHP-127-3-5	'3-5	12/6/2006		0.0260 U	0.0250 U			0.150 UJ			0.0740 U
LHP-128-0-1	'0-4	12/6/2006		0.0220 U	0.0210 U			0.120 UJ			0.0620 U
LHP-128-7-8	'17-17	12/6/2006		0.0470 U	0.0858 J			0.260 UJ			0.130 U
LP-1-0-0.5	'0-0.5	8/27/2001						0.00620 U			0.00620 U
LP-10-0.5-2	'0.5-2	8/27/2001						0.00510 U			0.00510 U
LP-10-0-0.5	'0-0.5	8/27/2001						0.0223			0.00620 U
LP-101-11-13	'11-13	11/2/2006		0.0840 U	0.0790 U			0.470 U			0.230 U
LP-101-14-16	'14-16	11/2/2006		0.0760 U	0.0710 U			0.420 U			0.210 U
LP-101-26-28	'26-28	11/2/2006		0.0270 U	0.0260 U			0.150 U			0.0760 U
LP-101-50-52	'50-52	11/2/2006		0.0270 U	0.0260 U			0.150 U			0.0760 U
LP-11-0-0.5	'0-0.5	8/27/2001						0.0328			0.00670 U
LP-12-0-0.5	'0-0.5	8/27/2001						0.00720 U			0.00720 U
LP-12-4-6	'4-6	8/27/2001						0.00580 U			0.00580 U
LP-13-0-0.5	'0-0.5	8/24/2001						0.00500 U			0.00500 U
LP-14-0.5-2	'0.5-2	8/24/2001						0.00540 U			0.00540 U
LP-14-0-0.5	'0-0.5	8/24/2001						0.00640 U			0.00640 U
LP-15-0-0.5	'0-0.5	8/24/2001						0.00680 U			0.00680 U
LP-16-0.5-2	'0.5-2	8/27/2001						0.00440 U			0.00440 U
LP-16-0-0.5	'0-0.5	8/27/2001						0.00730 U			0.00730 U
LP-2-0.5-2	'0.5-2	8/28/2001						0.00480 U			0.00480 U
LP-2-0-0.5	'0-0.5	8/28/2001						0.00690 U			0.00690 U
LP-3-0-0.5	'0-0.5	8/27/2001						0.0172			0.00570 U
LP-4 .5-2	'0.5-2	8/21/2001						0.640 U			0.640 U
LP-4 0-.5	'0-0.5	8/21/2001						0.580 U			0.580 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001						0.00620 U			0.00620 U
LP-6-0-0.5	'0-0.5	8/27/2001						0.00640 U			0.00640 U
LP-6-4-6	'4-6	8/27/2001						0.00660 U			0.00660 U
LP-7-0-0.5	'0-0.5	8/24/2001						0.00500 U			0.00500 U
LP-8-0-0.5	'0-0.5	8/24/2001						0.00620 U			0.00620 U
LP-8-10-12	'10-12	8/24/2001						0.0120 U			0.0120 U
LP-9-0-0.5	'0-0.5	8/24/2001						0.00700 U			0.00700 U
MW-11D-12-14	'12-14	12/14/2006		0.0940 U	0.142 J			0.520 UJ			0.260 U
MW-11D-14-16	'14-16	12/14/2006		0.0330 U	0.0387 J			0.180 U			0.0920 U
MW-11D-16-18	'16-18	12/14/2006		0.0761 J	0.165 J			0.170 U			0.0870 U
MW-14D-13-15	'13-15	11/14/2006		0.0360 U	0.0340 U			0.200 UJ			0.100 U
MW-14D-17-19	'17-19	11/14/2006		0.0290 U	0.0280 U			0.160 UJ			0.0820 U
MW-16D-13-15	'13-15	11/17/2006		0.0260 U	0.0240 U			0.150 UJ			0.0720 U
MW-16D-17-19	'17-19	11/20/2006		0.0250 U	0.0240 U			0.140 UJ			0.0710 U
MW-17D-15-17	'15-17	11/10/2006		0.0340 U	0.0320 U			0.190 UJ			0.0950 U
MW-17D-17-19	'17-19	11/10/2006		0.0260 U	0.0250 U			0.150 UJ			0.0740 U
MW-18D-13-15	'13-15	11/13/2006		0.0400 U	0.0380 U			0.220 UJ			0.110 U
MW-18D-17-19	'17-19	11/13/2006		0.0270 U	0.0584 J			0.150 UJ			0.0760 U
MW-20D-12-14	'12-14	11/9/2006		0.0420 U	0.0390 U			0.230 UJ			0.120 U
MW-20D-32-34	'32-32.9	11/10/2006		0.0240 U	0.0230 U			0.140 UJ			0.0680 U
MW-20D-36-38	'36-38	11/10/2006		0.0300 U	0.0513 J			0.170 UJ			0.0820 U
MW-21D-13-15	'13-13.7	11/16/2006		0.0400 U	0.0380 U			0.220 UJ			0.110 U
MW-21D-15-17	'15-17	11/16/2006		0.0280 U	0.0260 U			0.150 UJ			0.0770 U
MW-23D-15-17	'15-16	11/15/2006		0.0360 U	0.0340 U			0.200 UJ			0.100 U
MW-23D-37-39	'37-37.9	11/15/2006		0.0350 U	0.0330 U			0.190 UJ			0.0960 U
MW-25D-10-12	'10-12	11/21/2006		0.0910 U	0.0850 U			0.510 UJ			0.250 U
MW-25D-33-35	'33-35	12/18/2006		0.0330 U	0.0310 U			0.180 U			0.0910 U
MW-26S-8-10	'8-10	10/26/2006		0.0863 J	0.134 J			0.200 U			0.100 U
MW-6D-0-2	'0-2	11/8/2006		0.0270 U	0.0250 U			0.150 U			0.0740 U
MW-6D-12-14	'12-14	11/8/2006		0.559 J	0.955 J			0.670 U			0.330 U
MW-6D-16-18	'16-18	11/20/2006		0.0760 U	0.0720 U			0.420 UJ			0.210 U
MW-6D-30-32	'30-32	11/21/2006		0.0350 U	0.0330 U			0.200 UJ			0.0980 U
PCA-1-0-.5	'0-2	7/17/2001						0.0390 U			0.0390 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
PCA-1-4-6	'4-6	7/17/2001						0.00700 U			0.00700 U
PCA-2-0-.5	'0-0.5	7/17/2001						0.00490 U			0.00490 U
PCA-3-0-0.5	'0-0.5	9/13/2001						0.00600 U			0.00600 U
PCA-3-4-6	'4-6	9/13/2001						0.0100 U			0.0100 U
PCA-4-0-0.5	'0-0.5	9/13/2001						0.00560 U			0.00560 U
PCA-4-4-6	'4-6	9/26/2001						0.00770 U			0.00770 U
PCA-5-0.5-2	'0.5-2	9/7/2001						0.00430 U			0.00430 U
PCA-5-0-0.5	'0-0.5	9/7/2001						0.00520 U			0.00520 U
PCA-6-0-0.5	'0-0.5	9/7/2001						0.00630 U			0.00630 U
RR-1 0-0.5	'0-0.5	8/22/2001						0.0110			0.00480 U
RR-1 14-16	'14-16	8/22/2001		0.360 JN	2.90 JN			0.290 U			0.290 U
RR-10 0-.5	'0-0.5	10/12/2001						0.00640 U			0.00640 U
RR-11 0-.5	'0-0.5	10/12/2001						0.00630 U			0.00630 U
RR-12 0-.5	'0-0.5	10/12/2001						0.00520 U			0.00520 U
RR-2-0-0.5	'0-0.5	9/13/2001						0.00500 U			0.00500 U
RR-2-8-10	'8-10	9/13/2001						0.00730 U			0.00730 U
RR-3-0-0.5	'0-0.5	9/13/2001						0.00560 U			0.00560 U
RR-4-0-0.5	'0-0.5	9/10/2001						0.00820 U			0.00820 U
RR-4-6-8	'6-8	9/13/2001						0.0100 U			0.0100 U
RR-5-0-0.5	'0-0.5	9/10/2001						0.00720 U			0.00720 U
RR-6-0-0.5	'0-0.5	9/10/2001						0.00630 U			0.00630 U
RR-6-8-10	'8-10	9/10/2001						0.00400 U			0.00400 U
RR-7-0-0.5	'0-0.5	9/10/2001						0.00510 U			0.00510 U
RR-8-0-0.5	'0-0.5	9/26/2001						0.00740 U			0.00740 U
RR-8-6-8	'6-8	9/26/2001						0.0240 U			0.0240 U
RR-9 0-.5	'0-0.5	10/12/2001						0.0447			0.00660 U
SC-1	'0-1	8/21/2001						0.00760 U			0.00760 U
SC-2	'0-1	8/22/2001						0.0145			0.00660 U
SC-3	'0-1	8/22/2001						0.0150			0.00690 U
SILO-B1-0-0.5	'0-0.5	9/6/2001						0.00530 U			0.00530 U
SILO-B1-6-8	'6-8	9/6/2001						0.251			0.0210 U
SILO-B2-0-0.5	'0-0.5	9/6/2001						0.00520 U			0.00520 U
SILO-B3-0-0.5	'0-0.5	9/6/2001						0.00500 U			0.00500 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
SILO-B3-6-8	'6-8	9/6/2001						0.00480 U			0.00480 U
SILO-B4-0-0.5	'0-0.5	9/6/2001						0.00800 U			0.00800 U
SPR-1-0-0.5	'0-0.5	9/5/2001						0.0160			0.00570 U
SPR-1-8-10	'8-10	9/5/2001						0.0120 U			0.0120 U
SPR-2A-0-0.5	'0-0.5	7/19/2001						0.00900 U			0.00900 U
SPR-2A-8-10	'8-10	7/19/2001						0.980 U			0.980 U
SPR-2B-0-0.5	'0-0.5	7/19/2001						0.0120 U			0.0120 U
SPR-2B-10-12	'10-12	7/19/2001						1.10 U			1.10 U
SPR-3 0-.5	'0-0.5	8/21/2001						0.430 U			0.430 U
SPR-3 4-6	'4-6	8/21/2001						1.42			0.540 U
SPR-4A-0-0.5	'0-0.5	7/19/2001						0.00500 U			0.00500 U
SPR-4A-8-10	'8-10	7/19/2001						1.10 U			1.10 U
SPR-4B-0-0.5	'0-0.5	8/22/2001						0.00660 U			0.00660 U
SPR-4B-4-6	'4-6	8/23/2001						0.00770 U			0.00770 U
SPR-4C-0-0.5	'0-0.5	8/23/2001						0.00580 U			0.00580 U
SPR-4C-4-6	'4-6	8/23/2001						0.360 U			0.360 U
SPR-5-0-0.5	'0-0.5	9/5/2001						0.00600 U			0.00600 U
SPR-5-2-4	'2-4	9/5/2001						0.00820 U			0.00820 U
SPR-6-0.5-2	'0.5-2	9/13/2001						0.00580 U			0.00580 U
SPR-6-0-0.5	'0-0.5	9/13/2001						0.00530 U			0.00530 U
SR-1-0-.5	'0-0.5	7/17/2001						0.0482			0.00630
SR-2-0-.5	'0-0.5	7/17/2001						0.0382			0.00670 U
ST-1-0-0.5	'0-0.5	9/5/2001						0.00500 U			0.00500 U
ST-2-0-0.5	'0-0.5	9/5/2001						0.00480 U			0.00480 U
ST-3-0-0.5	'0-0.5	9/4/2001						0.00590 U			0.00590 U
ST-3-4-6	'4-6	9/4/2001						0.00770 U			0.00770 U
TES-1-0-1	'0-1	12/5/2006						0.190 UJ			0.0970 U
TES-2-0-1	'0-1	12/4/2006		0.0400 U	0.0370 U			0.220 UJ			0.110 U
TES-3-0-1	'0-1	12/4/2006		0.0340 U	0.0320 U			0.190 UJ			0.0940 U
TES-4-0-1	'0-1	12/5/2006						0.230 UJ			0.110 U
TLN-1 .5-2	'0.5-2	8/20/2001						0.00590 U			0.00590 U
TLN-1 0-.5	'0-0.5	8/20/2001						0.00560 U			0.00560 U
TLN-2-0-0.5	'0-0.5	7/19/2001						0.00760 U			0.00760 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001				0.260 JN		0.00580 U			0.00580 U
TLN-3-2-4	'2-4	7/17/2001						0.00500 U			0.00500 U
TLN-4 0-.5	'0-0.5	8/20/2001						0.00540 U			0.00540 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001						0.00480 U			0.00480 U
TLN-5 .5-2	'0.5-2	8/20/2001						0.0120 U			0.0120 U
TLN-5 0-.5	'0-0.5	8/20/2001						0.00660 U			0.00660 U
TLN-5-4-6	'4-6	8/30/2001						0.00510 U			0.00510 U
TLN-6 0-.5	'0-0.5	8/20/2001						0.00480 U			0.00480 U
TLS-10 0-.5	'0-0.5	8/21/2001						0.520 U			0.520 U
TLS-10 8-10	'8-10	8/21/2001			0.720 JN			0.620 U			0.620 U
TLS-1-0-0.5	'0-0.5	9/5/2001						0.0120 U			0.0120 U
TLS-11-0-0.5	'0-0.5	9/7/2001						0.00700 U			0.00700 U
TLS-2-0-0.5	'0-0.5	9/7/2001						0.00520 U			0.00520 U
TLS-2-6-8	'6-8	9/7/2001						0.0180 U			0.0180 U
TLS-3 0-.5	'0-0.5	8/21/2001						0.460 U			0.460 U
TLS-4-0-0.5	'0-0.5	9/7/2001						0.00520 U			0.00520 U
TLS-4-8-10	'8-10	9/7/2001						0.0681			0.0100 U
TLS-5 0-0.5	'0-0.5	8/21/2001						0.00530 U			0.00530 U
TLS-5-8-10	'8-10	9/26/2001						0.00980 U			0.00980 U
TLS-6 0-.5	'0-0.5	8/21/2001						0.470 U			0.470 U
TLS-6-3-5	'3-5	9/26/2001						0.00530 U			0.00530 U
TLS-7 0-.5	'0-0.5	8/21/2001						0.550 U			0.550 U
TLS-8-0-0.5	'0-0.5	9/7/2001						0.00570 U			0.00570 U
TLS-8-6-8	'6-8	9/7/2001						0.0110 U			0.0110 U
TLS-9 0-.5	'0-0.5	8/21/2001						0.450 U			0.450 U
TP-105	'0-0	6/8/2007		0.0260 U	0.0220 U			0.200 U			0.120 U
TP-105A	'0-0	6/8/2007		0.0230 U	0.0180 U			0.170 U			0.110 U
TP-106-A	'0-0	6/8/2007		0.0270 U	0.0220 U			0.210 U			0.130 U
TP-106-B	'0-0	6/8/2007		0.0170 U	0.0140 U			0.130 U			0.0820 U
WWT-1-0-0.5	'0-0.5	7/19/2001						0.00740 U			0.00740 U
WWT-101-15-17	'15-17	11/6/2006		0.0330 U	0.0310 U			0.180 UJ			0.0910 U
WWT-101-21-23	'21-23	11/6/2006		0.0280 U	0.0260 U			0.150 UJ			0.0770 U
WWT-1-12-14	'12-14	8/23/2001			0.0640 JN			0.130			0.00640 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3-Cyclohexadiene, 1-Methyl-4-(1-Methyl mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1-Methylnaphthalene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Chloro-naphthalene mg/kg	2-Ethyl-1-Hexanol mg/kg	2-Hexanone mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001						0.00580 U			0.00580 U
WWT-2-12-14	'12-14	8/23/2001			0.0920 JN			0.00920 U			0.00920 U
WWT-3-0-0.5	'0-0.5	8/23/2001						0.00640 U			0.00640 U
WWT-3-12-14	'12-14	8/23/2001						0.00520 U			0.00520 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
SRS			2400					37000	
12K-B1-0.5-2	'0.5-2	9/6/2001				0.00480 U			
12K-B1-0-0.5	'0-0.5	9/6/2001				0.00540 U			
12K-B2-0.5-2	'0.5-2	9/6/2001				0.00460 U			
12K-B2-0-0.5	'0-0.5	9/6/2001				0.00500 U			
150K-1-0.5-2	'0.5-2	9/10/2001				0.00420 U			
150K-1-0-0.5	'0-0.5	9/10/2001				0.00450 U			
230-B1-0.5	'0-0.5	10/2/2001				0.00540 U			
230-B10-0-0.5	'0-0.5	8/30/2001				0.0310 U			
230-B10-1.5-2	'1.5-2	8/30/2001				0.00650 U			
230-B11-0-0.5	'0-0.5	8/30/2001				0.00540 U			
230-B11-1.5-2	'1.5-2	8/30/2001				0.00660 U			
230-B1-4-6	'4-6	10/2/2001				3.00 U			
230-B2-0-0.5	'0-0.5	8/30/2001				0.00540 U			
230-B2-1.5-2	'1.5-2	8/30/2001				0.00440 U			
230-B3-0-0.5	'0-0.5	8/30/2001				0.00700 U			
230-B3-1.5-2	'1.5-2	8/30/2001				0.00480 U			
230-B4-0-0.5	'0-0.5	8/30/2001				0.00500 U			
230-B4-1.5-2	'1.5-2	8/30/2001				0.00580 U			
230-B5-0-0.5	'0-0.5	9/13/2001				0.00580 U			
230-B5-1.5-2	'1.5-2	9/13/2001				0.00610 U			
230-B6 0-0.5	'0-0.5	8/22/2001				0.00500 U			
230-B6 1.5-2	'1.5-2	8/22/2001				0.00490 U			
230-B7 0-0.5	'0-0.5	8/22/2001				0.00760 U			
230-B7 1.5-2	'1.5-2	8/22/2001				0.00520 U			
230-B8 1.5-2	'1.5-2	8/22/2001				0.00640 U			
230-B9 0-0.5	'0-0.5	8/22/2001				0.00560 U			
230-B9 0-0.5	'0-0.5	8/22/2001				0.00510 U			
230-B9 1.5-2	'1.5-2	8/22/2001				0.00520 U			
231-B1-0-0.5	'0-0.5	10/5/2001				0.00620 U			
231-B10-0-0.5	'0-0.5	9/17/2001				0.00960 U			
231-B11-0-0.5	'0-0.5	9/19/2001				0.00600 U			
231-B11-8-10	'8-10	9/19/2001				0.00920 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001				0.00700 U			
231-B13-0-0.5	'0-0.5	9/19/2001				0.0140 U			
231-B13-8-10	'9-10	9/27/2001				12.0 U			
231-B14-0-0.5	'0-0.5	9/19/2001				0.00520 U			
231-B2-0.5-2	'0.5-2	8/22/2001				0.00560 U			
231-B2-0-0.5	'0-0.5	8/22/2001				0.00580 U			
231-B3-0-0.5	'0-0.5	8/22/2001				0.00580 U			
231-B4-0-0.5	'0-0.5	8/30/2001				0.00870 U			
231-B4-6-8	'6-8	9/27/2001				0.00520 U			
231-B5-0.5-2	'0.5-2	9/19/2001				0.00540 U			
231-B6-0-0.5	'0-0.5	9/27/2001				0.00540 U			
231-B6-4-6	'4-6	9/27/2001				0.0140 U			
231-B7-0-0.5	'0-0.5	9/13/2001				0.00570 U			
231-B8-0-0.5	'0-0.5	9/27/2001				0.0270 UJ			
231-B8-8-10	'8-10	9/27/2001				4.80 U			
231-B9-0.5-2	'0.5-2	9/27/2001				0.00860 U			
231-B9-0-0.5	'0-0.5	9/27/2001				0.00800 U			
240-1-0-0.5	'0-0.5	9/26/2001				0.00520 U			
240-1-8-10	'8-10	10/1/2001				0.00600 U			
5K-B1-0-0.5	'0-0.5	10/1/2001				0.00540 U			
5K-B2-0-0.5	'0-0.5	8/31/2001				0.00710 U			
5K-B2-8-10	'8-10	8/31/2001				0.00480 U			
5K-B3-0-0.5	'0-0.5	9/26/2001				0.00570 U			
5K-B4-0-0.5	'0-0.5	10/1/2001				0.00650 U			
5K-B4-4-6	'4-6	10/1/2001				0.310 U			
5K-B5-0-0.5	'0-0.5	8/31/2001				0.00550 U			
5K-B5-4-6	'4-6	9/26/2001				0.00510 U			
AB-1-0-0.5	'0-0.5	9/4/2001				0.0210 U			
AB-2-0.5-2	'0.5-2	9/4/2001				0.00760 U			
AB-2-0-0.5	'0-0.5	9/4/2001				0.00500 U			
ADN-1-0-0.5	'0-0.5	9/5/2001				0.00470 U			
ADN-1-8-10	'8-10	9/5/2001				0.880 U			
ADN-2-0-0.5	'0-0.5	9/5/2001				0.00480 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
ADN-2-10-11	'10-11	9/27/2001				0.00520 U			
ADS-1-0-.5	'0-0.5	7/17/2001				0.00760 U			
ADS-10-0-0.5	'0-2	7/18/2001				0.00590 U			
ADS-101-0-1	'0-1	12/5/2006				0.120 U			
ADS-101-1-3	'1-3	12/5/2006				0.0930 U			
ADS-102-0-1.5	'0-2	12/5/2006				0.0980 U			
ADS-102-7-8	'4-8	12/6/2006				0.120 U			
ADS-10-4-6	'4-6	7/18/2001				0.0120 U			
ADS-11-0-0.5	'0-2	7/18/2001				0.00620 U			
ADS-12-0.5-2	'0.5-2	7/18/2001				0.00560 U			
ADS-12-0-0.5	'0-0.5	7/18/2001				0.00820 U			
ADS-2-0-0.5	'0-0.5	7/18/2001				0.00610 U			
ADS-2-4-6	'4-6	7/18/2001				0.00490 U			
ADS-3-0-0.5	'0-0.5	7/18/2001				0.00570 U			
ADS-4-0-0.5	'0-2	7/18/2001				0.00600 U			
ADS-4-12-14	'12-14	7/18/2001				0.00880 U			
ADS-5-0-0.5	'0-0.5	7/18/2001				0.00530 U			
ADS-5-4-6	'4-6	9/27/2001				0.00500 U			
ADS-6-0.5-2	'0.5-2	7/18/2001				0.00560 U			
ADS-6-0-0.5	'0-0.5	7/18/2001				0.00480 U			
ADS-7-0-.5	'0-0.5	7/17/2001	0.0190 JN			0.00520 U			
ADS-8-0-0.5	'0-0.5	7/18/2001				0.00960 U			
ADS-8-4-6	'4-6	7/18/2001				0.00910 U			
ADS-9-0-0.5	'0-0.5	7/18/2001				0.00930 U			
BLIND DUP	'0-0	8/21/2001				0.00620 U			
BSL-10-0-1	'0-1	9/21/2001				0.00700 U			
BSL-1-0-1	'0-1	9/20/2001				0.00580 U			
BSL-11-0-1	'0-1	9/26/2001				0.00580 U			
BSL-12-0-1	'0-1	9/26/2001				0.00520 U			
BSL-1-4-6	'4-6	9/20/2001				0.00720 U			
BSL-2-0-1	'0-1	9/21/2001				0.00760 U			
BSL-3-0-0.5	'0-0.5	9/20/2001				0.00520 U			
BSL-4-0-1	'0-0.5	9/21/2001				0.00720 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
BSL-4-4-6	'4-6	9/21/2001				0.0120 U			
BSL-5-0-.5	'0-0.5	9/21/2001				0.00520 U			
BSL-6-0-1	'0-1	9/26/2001				0.00720 U			
BSL-6-1-2	'1-2	9/26/2001				0.0180 U			
BSL-7-0-.5	'0-0.5	9/21/2001				0.00640 U			
BSL-8-0-1	'0-1	9/26/2001				0.00940 U			
BSL-9-.5-2	'0.5-2	9/21/2001				0.0100 U			
BSL-9-0-.5	'0-0.5	9/21/2001				0.00570 U			
BT-B1-0-0.5	'0-0.5	9/18/2001				0.00560 U			
BT-B2-0.5-2	'0.5-2	9/18/2001				0.00420 U			
BT-B2-0-0.5	'0-0.5	9/18/2001				0.00460 U			
BT-B3-0-0.5	'0-0.5	9/18/2001				0.00580 U			
BT-B4-0.5-2	'0.5-2	8/30/2001				0.00490 U			
BT-B4-0-0.5	'0-0.5	8/30/2001				0.00660 U			
BT-B5-0-.5	'0-0.5	10/2/2001				0.00540 U			
BT-B6-0.5-2	'0.5-2	9/17/2001				0.00950 U			
BT-B6-0-0.5	'0-0.5	9/17/2001				0.00700 U			
CF-1-0-0.5	'0-0.5	8/31/2001				0.00480 U			
CF-1-2-4	'2-4	8/31/2001				0.00800 U			
CF-2-0-0.5	'0-0.5	8/28/2001				0.00650 U			
CF-3-0.5-2	'0.5-2	8/28/2001				0.0120 U			
CF-3-0-0.5	'0-0.5	8/28/2001				0.00900 U			
CF-4-0-0.5	'0-0.5	8/28/2001				0.00640 U			
CF-5-0-0.5	'0-0.5	8/28/2001				0.00570 U			
CF-5-4-6	'4-6	8/28/2001				0.00500 U			
CF-6-0-0.5	'0-0.5	8/28/2001				0.00520 U			
CF-7-0-0.5	'0-0.5	8/28/2001				0.00520 U			
CF-7-4-6	'4-6	8/28/2001				0.00600 U			
CF-8-0-0.5	'0-0.5	8/28/2001				0.00540 U			
CF-9-0.5-2	'0.5-2	8/31/2001				0.00710 U			
CF-9-0-0.5	'0-0.5	8/31/2001				0.00480 U			
DC-B12-0-0.5	'0-0.5	10/3/2001				0.00980 U			
DC-B12-2-4	'2-4	10/3/2001				0.00680 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001				0.00480 U			
DC-SS11-0-0.5	'0-0.5	9/17/2001				0.00430 U			
DC-SS13-0-0.5	'0-0.5	9/17/2001				0.00850 U			
DC-SS15-0-0.5	'0-0.5	9/17/2001	0.0120 JN			0.00600 U		0.0100 JN	
DC-SS17-0-0.5	'0-0.5	9/17/2001				0.00550 U			
DC-SS2-0-0.5	'0-0.5	9/17/2001				0.00520 U			
DC-SS3-0-0.5	'0-0.5	9/17/2001				0.00590 U			
DC-SS6-0-0.5	'0-0.5	9/17/2001				0.00780 U			
DC-SS7-0-0.5	'0-0.5	9/17/2001				0.00640 U			
DC-SS9-0-0.5	'0-0.5	9/17/2001				0.00470 U			
DSP-1-0-0.5	'0-0.5	10/3/2001				0.00720 U			
DSP-1-4-6	'4-6	11/19/2001				0.00620 U			
DSP-2-0-0.5	'0-0.5	9/4/2001				0.00580 U			
DSP-3-0-0.5	'0-0.5	9/4/2001				0.00560 U			
DSP-3-2-4	'2-4	9/4/2001				0.00500 U			
DSP-4-0-0.5	'0-0.5	9/4/2001				0.00560 U			
DSP-4-4-6	'4-6	9/26/2001				0.00520 U			
DUP-01-010824	'0-0.5	8/24/2001				0.00630 U			
DUP-01-010831	'2-4	8/31/2001				0.00880 U			
DUP-01-010904	'0-0.5	9/4/2001				0.00520 U			
DUP-01-010905	'8-10	9/5/2001				0.00530 U			
DUP-01-010906	'0-8	9/6/2001				0.00880 U			
DUP-01-010913	'0-0.5	9/13/2001				0.00910 U			
DUP-01-010917	'0-0.5	9/17/2001				0.00580 U			
DUP-01-010926	'1-2	9/26/2001				0.0120 U			
DUP-01-010927	'4-6	9/27/2001				0.00760 U			
DUP-01-021001	'0-0	10/2/2001				0.00430 U			
DUP-01-08 2201	'1.5-2	8/22/2001				0.00600 U			
DUP-01-121001	'0-0	10/12/2001				0.00700 U			
DUP-01-170402	'0-0	4/17/2002				1.40 U			
DUP-02-010913	'0-0.5	9/13/2001				0.00520 U			
DUP-02-010921	'0-1	9/21/2001				0.00630 U			
DUP-02-010926	'4-6	9/26/2001				0.00540 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
DUP060807	'0-0	6/8/2007				0.120 U			
DUP-1-010828	'0-0.5	8/28/2001				0.00560 U			
DUP-1-010921	'0-0.5	9/21/2001				0.00680 U			
DUP110606	'15-17	11/6/2006				0.140 U			
DUP112006	'16-18	11/20/2006				0.350 U			
DUP112106	'10-12	11/21/2006				0.370 U			
DUP-120506	'0-4	12/5/2006				0.0980 U			
DUP-120606	'0-4	12/6/2006				0.0920 U			
DUPE071801	'0-0.5	7/18/2001				0.00660 U			
EC-1	'0-1	8/21/2001				0.00640 U			
EC-2	'0-1	8/21/2001				0.00850 U			
EC-3	'0-1	8/21/2001				0.00700 U			
EC-4	'0-1	8/21/2001				0.00880 U			
EC-5	'0-1	8/21/2001				0.00510 U			
EC-6	'0-1	8/21/2001				0.00650 U			
EC-7	'0-1	8/21/2001				0.00740 U			
EC-8	'0-1	8/21/2001				0.00670 U			
EC-9	'0-1	8/21/2001				0.00640 U			
ESR-1-0-1	'0-0.5	9/4/2001				0.00560 U			
ESR-1-4-6	'4-6	9/4/2001				0.00570 U			
HB-101A	'17-17	3/5/2007				0.110 U			
HB-102A	'0-0	3/13/2007				0.310 U			
HB-102B	'0-0	3/14/2007				0.120 U			
HB-102C	'0-0	3/14/2007				0.100 U			
H-B-103A	'17-17	2/20/2007				0.180 U			
H-B-104A	'17-17	2/23/2007				0.130 U			
H-B-104B	'17-17	2/23/2007				0.110 U			
H-B-104C	'17-17	2/23/2007				0.140 U			
H-B-104D	'17-17	2/27/2007				0.120 U			
H-B-104E	'17-17	2/27/2007				0.110 U			
H-B-105C	'17-17	2/8/2007				0.100 U			
H-B-105D	'17-17	2/8/2007				0.120 U			
H-B-105E	'0-0	2/8/2007				0.120 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
HB-1A	'6.75-6.75	4/18/2002				0.0100 U			
HB-3A	'5.25-5.25	4/17/2002				1.80 U			
HB-3B	'4.5-4.5	4/17/2002				0.00440 U			
HB-3C	'4.5-4.5	4/18/2002				0.00450 U			
HB-3D	'4.5-4.5	4/18/2002			0.0740 JN	0.00670 U			
HB-4A	'5.33-5.33	4/19/2002				0.00510 U			
HB-5A	'3-3	4/22/2002				0.00510 U			
HB-7A	'5-5	4/19/2002				0.00600 U			
HB-8A	'3-3	4/23/2002				0.00680 U			
HB-8B	'4.83-4.83	4/23/2002				0.00720 U			
HB-8C	'5.5-5.5	4/23/2002				0.00620 U			
HB-9A	'4.75-4.75	4/24/2002				0.00560 U			
HF-B1-0-0.5	'0-0.5	9/10/2001				0.0120 U			
HF-B1-8-10	'8-10	9/10/2001				0.00400 U			
HF-B2-0-0.5	'0-0.5	9/4/2001				0.00480 U			
HF-B2-4-6	'4-6	9/4/2001				0.00600 U			
HF-B3-0-.5	'0-0.5	10/2/2001				0.00610 U			
HF-B3-8-10	'8-10	10/2/2001				0.00680 U			
IB-1-0-2	'0-2	4/8/2002				0.00590 U			
IB-1-4-6	'4-6	4/8/2002				0.00600 U			
IB-2-12-14	'12-14	4/8/2002				0.00580 U			
IB-2-4-6	'4-6	4/8/2002				0.00510 U			
IB-3-4-6	'4-6	4/8/2002				0.00560 U			
IB-3-8-10	'8-10	4/8/2002				0.00880 U		0.390 JN	
LB-101-0-1	'0-1	12/6/2006				0.110 U			
LB-101-1-3	'1-3	12/6/2006				0.0860 U			
LB-102-0-1	'0-3	12/6/2006				0.120 U			
LB-102-1-3	'3-7	12/6/2006				0.0970 U			
LB-103-0-1	'0-1	12/6/2006				0.110 U			
LB-103-5-7	'5-7	12/6/2006				0.140 U			
LHP-101-0-1	'0-1	12/4/2006				0.130 U			
LHP-101-5-8	'4-8	12/4/2006				0.230 U			
LHP-102-0-1	'0-1	12/5/2006				0.130 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
LHP-102-7-9	'7-9	12/5/2006				0.00270 U			
LHP-102-7-9	'7-9	12/6/2006				0.210 U			
LHP-103-0-1	'0-1	12/5/2006				0.110 U			
LHP-103-1-3	'1-3	12/5/2006				0.120 U			
LHP-104-0-1	'0-1	12/5/2006				0.110 U			
LHP-104-7-9	'4-8	12/5/2006				0.160 U			
LHP-105-0-1	'0-1	12/5/2006				0.100 U			
LHP-105-1-3	'1-3	12/5/2006				0.130 U			
LHP-106-0-1	'0-1	12/4/2006				0.0960 U			
LHP-106-1-3	'1-3	12/4/2006				0.140 U			
LHP-107-0-1	'0-1	12/5/2006				0.0920 U			
LHP-107-5-7	'4-8	12/5/2006				0.110 U			
LHP-108-0-1	'0-1	12/6/2006				0.120 U			
LHP-108-3-7	'3-7	12/6/2006				0.120 U			
LHP-109-0-1	'0-1	12/6/2006				0.120 U			
LHP-109-7-9	'7-9	12/6/2006				0.190 U			
LHP-110-0-1	'0-1	12/4/2006				0.210 U			
LHP-111-0-1	'0-1	12/4/2006				0.0980 U			
LHP-112-0-1	'0-1	12/4/2006				0.100 U			
LHP-113-0-1	'0-1	12/4/2006				0.0970 U			
LHP-114-0-1	'0-1	12/4/2006				0.0950 U			
LHP-115-0-1	'0-1	12/4/2006				0.0930 U			
LHP-116-0-1	'0-1	12/4/2006				0.100 U			
LHP-117-0-1	'0-1	12/4/2006				0.110 U			
LHP-118-0-1	'0-1	12/4/2006				0.140 U			
LHP-119-0-1	'0-1	12/4/2006				0.140 U			
LHP-120-0-1	'0-1	12/4/2006				0.180 U			
LHP-121-0-1	'0-1	12/6/2006				0.130 U			
LHP-122-0-1	'0-1	12/6/2006				0.110 U			
LHP-123-0-1	'0-1	12/4/2006				0.120 U			
LHP-124-.5-2	'0.5-2	10/27/2006				0.150 U			
LHP-124-2-4	'2-4	10/27/2006				0.110 U			
LHP-124-28-30	'28-30	10/31/2006				0.150 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006				0.120 U			
LHP-125-10.5-12	'10.5-12	11/1/2006				0.140 U			
LHP-125-12-14	'12-14	11/1/2006				0.110 U			
LHP-125-4-6	'4-6	10/27/2006				0.130 U			
LHP-126-10.5-12	'10.5-12	11/1/2006				0.960 UJ			
LHP-126-14-16	'14-16	11/1/2006				0.120 U			
LHP-126-2-4	'2-4	10/26/2006				0.120 U			
LHP-126-8-10	'9-10	10/26/2006				0.180 U			
LHP-127-0-1	'0-1	12/6/2006				0.140 U			
LHP-127-3-5	'3-5	12/6/2006				0.110 U			
LHP-128-0-1	'0-4	12/6/2006				0.0910 U			
LHP-128-7-8	'17-17	12/6/2006				0.190 U			
LP-1-0-0.5	'0-0.5	8/27/2001				0.00620 U			
LP-10-0.5-2	'0.5-2	8/27/2001				0.00510 U			
LP-10-0-0.5	'0-0.5	8/27/2001				0.00620 U			
LP-101-11-13	'11-13	11/2/2006				0.340 U			
LP-101-14-16	'14-16	11/2/2006				0.310 U			
LP-101-26-28	'26-28	11/2/2006				0.110 U			
LP-101-50-52	'50-52	11/2/2006				0.110 U			
LP-11-0-0.5	'0-0.5	8/27/2001				0.00670 U			
LP-12-0-0.5	'0-0.5	8/27/2001				0.00720 U			
LP-12-4-6	'4-6	8/27/2001				0.00580 U			
LP-13-0-0.5	'0-0.5	8/24/2001				0.00500 U			
LP-14-0.5-2	'0.5-2	8/24/2001				0.00540 U			
LP-14-0-0.5	'0-0.5	8/24/2001				0.00640 U			
LP-15-0-0.5	'0-0.5	8/24/2001				0.00680 U			
LP-16-0.5-2	'0.5-2	8/27/2001				0.00440 U			
LP-16-0-0.5	'0-0.5	8/27/2001				0.00730 U			
LP-2-0.5-2	'0.5-2	8/28/2001				0.00480 U			
LP-2-0-0.5	'0-0.5	8/28/2001				0.00690 U			
LP-3-0-0.5	'0-0.5	8/27/2001				0.00570 U			
LP-4 .5-2	'0.5-2	8/21/2001				0.640 U			
LP-4 0-.5	'0-0.5	8/21/2001				0.580 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001				0.00620 U			
LP-6-0-0.5	'0-0.5	8/27/2001				0.00640 U			
LP-6-4-6	'4-6	8/27/2001				0.00660 U			
LP-7-0-0.5	'0-0.5	8/24/2001				0.00500 U			
LP-8-0-0.5	'0-0.5	8/24/2001				0.00620 U			
LP-8-10-12	'10-12	8/24/2001				0.0120 U			
LP-9-0-0.5	'0-0.5	8/24/2001				0.00700 U			
MW-11D-12-14	'12-14	12/14/2006				0.380 U			
MW-11D-14-16	'14-16	12/14/2006				0.130 U			
MW-11D-16-18	'16-18	12/14/2006				0.130 U			
MW-14D-13-15	'13-15	11/14/2006				0.150 U			
MW-14D-17-19	'17-19	11/14/2006				0.120 U			
MW-16D-13-15	'13-15	11/17/2006				0.110 U			
MW-16D-17-19	'17-19	11/20/2006				0.100 U			
MW-17D-15-17	'15-17	11/10/2006				0.140 U			
MW-17D-17-19	'17-19	11/10/2006				0.110 U			
MW-18D-13-15	'13-15	11/13/2006				0.160 U			
MW-18D-17-19	'17-19	11/13/2006				0.110 U			
MW-20D-12-14	'12-14	11/9/2006				0.170 U			
MW-20D-32-34	'32-32.9	11/10/2006				0.100 U			
MW-20D-36-38	'36-38	11/10/2006				0.120 U			
MW-21D-13-15	'13-13.7	11/16/2006				0.160 U			
MW-21D-15-17	'15-17	11/16/2006				0.110 U			
MW-23D-15-17	'15-16	11/15/2006				0.150 U			
MW-23D-37-39	'37-37.9	11/15/2006				0.140 U			
MW-25D-10-12	'10-12	11/21/2006				0.370 U			
MW-25D-33-35	'33-35	12/18/2006				0.130 U			
MW-26S-8-10	'8-10	10/26/2006				0.150 U			
MW-6D-0-2	'0-2	11/8/2006				0.110 U			
MW-6D-12-14	'12-14	11/8/2006				0.490 U			
MW-6D-16-18	'16-18	11/20/2006				0.310 U			
MW-6D-30-32	'30-32	11/21/2006				0.140 U			
PCA-1-0-.5	'0-2	7/17/2001				0.0390 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
PCA-1-4-6	'4-6	7/17/2001				0.00700 U			
PCA-2-0-.5	'0-0.5	7/17/2001				0.00490 U			
PCA-3-0-0.5	'0-0.5	9/13/2001				0.00600 U			
PCA-3-4-6	'4-6	9/13/2001				0.0100 U			
PCA-4-0-0.5	'0-0.5	9/13/2001				0.00560 U			
PCA-4-4-6	'4-6	9/26/2001				0.00770 U			
PCA-5-0.5-2	'0.5-2	9/7/2001				0.00430 U			
PCA-5-0-0.5	'0-0.5	9/7/2001				0.00520 U			
PCA-6-0-0.5	'0-0.5	9/7/2001				0.00630 U			
RR-1 0-0.5	'0-0.5	8/22/2001				0.00480 U			
RR-1 14-16	'14-16	8/22/2001				0.290 U			
RR-10 0-.5	'0-0.5	10/12/2001				0.00640 U			
RR-11 0-.5	'0-0.5	10/12/2001				0.00630 U			
RR-12 0-.5	'0-0.5	10/12/2001				0.00520 U			
RR-2-0-0.5	'0-0.5	9/13/2001				0.00500 U			
RR-2-8-10	'8-10	9/13/2001				0.00730 U			
RR-3-0-0.5	'0-0.5	9/13/2001				0.00560 U			
RR-4-0-0.5	'0-0.5	9/10/2001				0.00820 U			
RR-4-6-8	'6-8	9/13/2001				0.0100 U			
RR-5-0-0.5	'0-0.5	9/10/2001				0.00720 U			
RR-6-0-0.5	'0-0.5	9/10/2001				0.00630 U			
RR-6-8-10	'8-10	9/10/2001				0.00400 U			
RR-7-0-0.5	'0-0.5	9/10/2001				0.00510 U			
RR-8-0-0.5	'0-0.5	9/26/2001				0.00740 U			
RR-8-6-8	'6-8	9/26/2001				0.0240 U			
RR-9 0-.5	'0-0.5	10/12/2001				0.00660 U			
SC-1	'0-1	8/21/2001				0.00760 U			
SC-2	'0-1	8/22/2001				0.00660 U			
SC-3	'0-1	8/22/2001				0.00690 U			
SILO-B1-0-0.5	'0-0.5	9/6/2001				0.00530 U			
SILO-B1-6-8	'6-8	9/6/2001				0.0210 U	0.300 JN		
SILO-B2-0-0.5	'0-0.5	9/6/2001		0.0120 JN		0.00520 U			
SILO-B3-0-0.5	'0-0.5	9/6/2001				0.00500 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
SILO-B3-6-8	'6-8	9/6/2001				0.00480 U			
SILO-B4-0-0.5	'0-0.5	9/6/2001				0.00800 U			
SPR-1-0-0.5	'0-0.5	9/5/2001				0.00570 U			
SPR-1-8-10	'8-10	9/5/2001				0.0120 U			
SPR-2A-0-0.5	'0-0.5	7/19/2001				0.00900 U			
SPR-2A-8-10	'8-10	7/19/2001				0.980 U			
SPR-2B-0-0.5	'0-0.5	7/19/2001				0.0120 U			
SPR-2B-10-12	'10-12	7/19/2001				1.10 U			
SPR-3 0-.5	'0-0.5	8/21/2001				0.430 U			
SPR-3 4-6	'4-6	8/21/2001				0.540 U			
SPR-4A-0-0.5	'0-0.5	7/19/2001				0.00500 U			
SPR-4A-8-10	'8-10	7/19/2001				1.10 U			
SPR-4B-0-0.5	'0-0.5	8/22/2001				0.00660 U			
SPR-4B-4-6	'4-6	8/23/2001				0.00770 U			
SPR-4C-0-0.5	'0-0.5	8/23/2001				0.00580 U			
SPR-4C-4-6	'4-6	8/23/2001				0.360 U			
SPR-5-0-0.5	'0-0.5	9/5/2001				0.00600 U			
SPR-5-2-4	'2-4	9/5/2001				0.00820 U			
SPR-6-0.5-2	'0.5-2	9/13/2001				0.00580 U			
SPR-6-0-0.5	'0-0.5	9/13/2001				0.00530 U			
SR-1-0-.5	'0-0.5	7/17/2001				0.00580 U			
SR-2-0-.5	'0-0.5	7/17/2001				0.00670 U			
ST-1-0-0.5	'0-0.5	9/5/2001				0.00500 U			
ST-2-0-0.5	'0-0.5	9/5/2001				0.00480 U			
ST-3-0-0.5	'0-0.5	9/4/2001				0.00590 U			
ST-3-4-6	'4-6	9/4/2001				0.00770 U			
TES-1-0-1	'0-1	12/5/2006				0.140 U			
TES-2-0-1	'0-1	12/4/2006				0.160 U			
TES-3-0-1	'0-1	12/4/2006				0.140 U			
TES-4-0-1	'0-1	12/5/2006				0.160 U			
TLN-1 .5-2	'0.5-2	8/20/2001				0.00590 U			
TLN-1 0-.5	'0-0.5	8/20/2001				0.00560 U			
TLN-2-0-0.5	'0-0.5	7/19/2001				0.00760 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001	0.560 JN			0.00580 U			
TLN-3-2-4	'2-4	7/17/2001				0.00500 U			
TLN-4 0-.5	'0-0.5	8/20/2001				0.00540 U			
TLN-4 0-.5 DUP	'0-0.5	8/20/2001				0.00480 U			
TLN-5 .5-2	'0.5-2	8/20/2001				0.0120 U			
TLN-5 0-.5	'0-0.5	8/20/2001				0.00660 U			
TLN-5-4-6	'4-6	8/30/2001				0.00510 U			
TLN-6 0-.5	'0-0.5	8/20/2001				0.00480 U			
TLS-10 0-.5	'0-0.5	8/21/2001				0.520 U			
TLS-10 8-10	'8-10	8/21/2001				0.620 U			
TLS-1-0-0.5	'0-0.5	9/5/2001				0.0120 U			
TLS-11-0-0.5	'0-0.5	9/7/2001				0.00700 U			
TLS-2-0-0.5	'0-0.5	9/7/2001				0.00520 U			
TLS-2-6-8	'6-8	9/7/2001				0.0180 U			0.100 JN
TLS-3 0-.5	'0-0.5	8/21/2001				0.460 U			
TLS-4-0-0.5	'0-0.5	9/7/2001				0.00520 U			
TLS-4-8-10	'8-10	9/7/2001				0.0100 U			
TLS-5 0-0.5	'0-0.5	8/21/2001				0.00530 U			
TLS-5-8-10	'8-10	9/26/2001				0.00980 U			
TLS-6 0-.5	'0-0.5	8/21/2001				0.470 U			
TLS-6-3-5	'3-5	9/26/2001				0.00530 U			
TLS-7 0-.5	'0-0.5	8/21/2001				0.550 U			
TLS-8-0-0.5	'0-0.5	9/7/2001				0.00570 U			
TLS-8-6-8	'6-8	9/7/2001				0.0110 U			
TLS-9 0-.5	'0-0.5	8/21/2001				0.450 U			
TP-105	'0-0	6/8/2007				0.140 U			
TP-105A	'0-0	6/8/2007				0.120 U			
TP-106-A	'0-0	6/8/2007				0.150 U			
TP-106-B	'0-0	6/8/2007				0.0940 U			
WWT-1-0-0.5	'0-0.5	7/19/2001				0.00740 U			
WWT-101-15-17	'15-17	11/6/2006				0.130 U			
WWT-101-21-23	'21-23	11/6/2006				0.110 U			
WWT-1-12-14	'12-14	8/23/2001				0.00640 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Methylnaphthalene mg/kg	2-Methylpentane mg/kg	2-Methylpropylene mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	4-Methyldecane mg/kg	Acenaphthene mg/kg	Acetaldehyde, Chloro- mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001				0.00580 U			
WWT-2-12-14	'12-14	8/23/2001				0.00920 U			
WWT-3-0-0.5	'0-0.5	8/23/2001				0.00640 U			
WWT-3-12-14	'12-14	8/23/2001				0.00520 U			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
SRS										4
12K-B1-0.5-2	'0.5-2	9/6/2001			0.105					0.00130
12K-B1-0-0.5	'0-0.5	9/6/2001			0.110					0.00140
12K-B2-0.5-2	'0.5-2	9/6/2001			0.0270					0.000920 U
12K-B2-0-0.5	'0-0.5	9/6/2001			0.0604					0.00100 U
150K-1-0.5-2	'0.5-2	9/10/2001			0.0411					0.000830 U
150K-1-0-0.5	'0-0.5	9/10/2001			0.0658					0.000900
230-B1-0.5	'0-0.5	10/2/2001			2.57 UJ					0.00110 U
230-B10-0-0.5	'0-0.5	8/30/2001			2.03					0.0106 J
230-B10-1.5-2	'1.5-2	8/30/2001			0.0841					0.00130 U
230-B11-0-0.5	'0-0.5	8/30/2001			0.0375					0.00120 J
230-B11-1.5-2	'1.5-2	8/30/2001			0.0341					0.00270 U
230-B1-4-6	'4-6	10/2/2001			3.00 U				3.80 JN	143.
230-B2-0-0.5	'0-0.5	8/30/2001			0.0621					0.0304
230-B2-1.5-2	'1.5-2	8/30/2001			0.0612					0.0136
230-B3-0-0.5	'0-0.5	8/30/2001			0.0912					0.00310
230-B3-1.5-2	'1.5-2	8/30/2001			0.0338					0.0245
230-B4-0-0.5	'0-0.5	8/30/2001			0.0388					0.0140
230-B4-1.5-2	'1.5-2	8/30/2001			0.0364					0.00120 U
230-B5-0-0.5	'0-0.5	9/13/2001			0.324					0.00170
230-B5-1.5-2	'1.5-2	9/13/2001			0.0343					0.00960
230-B6 0-0.5	'0-0.5	8/22/2001			0.00500 U					0.00100 J
230-B6 1.5-2	'1.5-2	8/22/2001			0.0535					0.00200 U
230-B7 0-0.5	'0-0.5	8/22/2001			0.00760 U					0.00310 U
230-B7 1.5-2	'1.5-2	8/22/2001			0.0699					0.00700
230-B8 1.5-2	'1.5-2	8/22/2001			0.0717					0.00180 J
230-B9 0-0.5	'0-0.5	8/22/2001			0.00560 U					0.00220 U
230-B9 0-0.5	'0-0.5	8/22/2001			0.00510 U					0.00200 U
230-B9 1.5-2	'1.5-2	8/22/2001			0.0367					0.00210 U
231-B1-0-0.5	'0-0.5	10/5/2001			0.196					0.00120 UJ
231-B10-0-0.5	'0-0.5	9/17/2001			0.117					0.00190 U
231-B11-0-0.5	'0-0.5	9/19/2001			0.0458					0.00120 U
231-B11-8-10	'8-10	9/19/2001			0.191					0.00200

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001			0.0625					0.00140 U
231-B13-0-0.5	'0-0.5	9/19/2001			0.229					0.00370
231-B13-8-10	'9-10	9/27/2001			12.0 U					2.30 U
231-B14-0-0.5	'0-0.5	9/19/2001			0.0318					0.00100 U
231-B2-0.5-2	'0.5-2	8/22/2001			0.0579					0.00250
231-B2-0-0.5	'0-0.5	8/22/2001			0.0636					0.0202
231-B3-0-0.5	'0-0.5	8/22/2001			0.104					0.00230 U
231-B4-0-0.5	'0-0.5	8/30/2001			0.00870 U					0.00350 U
231-B4-6-8	'6-8	9/27/2001			0.206					0.0125
231-B5-0.5-2	'0.5-2	9/19/2001			0.0230					0.00240
231-B6-0-0.5	'0-0.5	9/27/2001			0.0720					0.00800
231-B6-4-6	'4-6	9/27/2001			0.128					0.00270 U
231-B7-0-0.5	'0-0.5	9/13/2001			0.00570 U					0.00360
231-B8-0-0.5	'0-0.5	9/27/2001			0.454 J					0.00540 UJ
231-B8-8-10	'8-10	9/27/2001			4.80 U					9.22
231-B9-0.5-2	'0.5-2	9/27/2001			0.198					0.00170 U
231-B9-0-0.5	'0-0.5	9/27/2001			0.00800 U					0.00160 U
240-1-0-0.5	'0-0.5	9/26/2001			0.199 J					0.00300
240-1-8-10	'8-10	10/1/2001			2.50					0.00120 U
5K-B1-0-0.5	'0-0.5	10/1/2001			0.00540 U					0.00110 U
5K-B2-0-0.5	'0-0.5	8/31/2001			0.0726					0.00140 U
5K-B2-8-10	'8-10	8/31/2001		0.00920 JN	0.0589					0.00480
5K-B3-0-0.5	'0-0.5	9/26/2001			0.0571 J					0.00110 U
5K-B4-0-0.5	'0-0.5	10/1/2001			0.399 UJ					0.00130 U
5K-B4-4-6	'4-6	10/1/2001			0.310 U					0.133
5K-B5-0-0.5	'0-0.5	8/31/2001			0.760					0.0121
5K-B5-4-6	'4-6	9/26/2001			0.0602 J					0.0186
AB-1-0-0.5	'0-0.5	9/4/2001			0.0210 U					0.00420 U
AB-2-0.5-2	'0.5-2	9/4/2001			0.100					0.00190
AB-2-0-0.5	'0-0.5	9/4/2001			0.0784					0.00150
ADN-1-0-0.5	'0-0.5	9/5/2001			0.00470 U					0.000940 U
ADN-1-8-10	'8-10	9/5/2001			0.880 U					0.180 U
ADN-2-0-0.5	'0-0.5	9/5/2001			0.00480 U					0.000950 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
ADN-2-10-11	'10-11	9/27/2001			0.0984		0.240 JN			0.00760
ADS-1-0-.5	'0-0.5	7/17/2001			0.0403					0.00300 U
ADS-10-0-0.5	'0-2	7/18/2001			0.0442 UJ					0.00240 U
ADS-101-0-1	'0-1	12/5/2006		0.0820 U	0.170 UJ					0.0280 U
ADS-101-1-3	'1-3	12/5/2006		0.0660 U	0.130 UJ					0.0220 U
ADS-102-0-1.5	'0-2	12/5/2006		0.0690 U	0.140 UJ					0.0240 U
ADS-102-7-8	'4-8	12/6/2006		0.0820 U	0.170 UJ					0.0280 U
ADS-10-4-6	'4-6	7/18/2001			0.0600 UJ					0.00500 U
ADS-11-0-0.5	'0-2	7/18/2001			0.0440 UJ					0.00250 U
ADS-12-0.5-2	'0.5-2	7/18/2001	0.0150 JN		0.138					0.00220 U
ADS-12-0-0.5	'0-0.5	7/18/2001			0.0286 UJ					0.00320 J
ADS-2-0-0.5	'0-0.5	7/18/2001			0.0700 UJ					0.00240 U
ADS-2-4-6	'4-6	7/18/2001		0.0190 JN	0.00490 U					0.00200 U
ADS-3-0-0.5	'0-0.5	7/18/2001			0.0376 UJ					0.00230 U
ADS-4-0-0.5	'0-2	7/18/2001			0.0597 UJ					0.00240 U
ADS-4-12-14	'12-14	7/18/2001			0.0678 UJ					0.00260 J
ADS-5-0-0.5	'0-0.5	7/18/2001			0.0194					0.00210 U
ADS-5-4-6	'4-6	9/27/2001			0.00500 U					0.00100 U
ADS-6-0.5-2	'0.5-2	7/18/2001			0.0946					0.00690
ADS-6-0-0.5	'0-0.5	7/18/2001			0.108					0.00190 U
ADS-7-0-.5	'0-0.5	7/17/2001			0.105					0.00210 U
ADS-8-0-0.5	'0-0.5	7/18/2001			0.139					0.00380 U
ADS-8-4-6	'4-6	7/18/2001			0.103					0.00360 U
ADS-9-0-0.5	'0-0.5	7/18/2001			0.0962					0.00370 U
BLIND DUP	'0-0	8/21/2001			0.0374					0.00250 U
BSL-10-0-1	'0-1	9/21/2001			0.197					0.00140 U
BSL-1-0-1	'0-1	9/20/2001			0.0508					0.00120 U
BSL-11-0-1	'0-1	9/26/2001			0.00580 U					0.00120 U
BSL-12-0-1	'0-1	9/26/2001			0.0766					0.00100 U
BSL-1-4-6	'4-6	9/20/2001			0.0201					0.00180
BSL-2-0-1	'0-1	9/21/2001			0.0943					0.00150 U
BSL-3-0-0.5	'0-0.5	9/20/2001			0.0172					0.00100 U
BSL-4-0-1	'0-0.5	9/21/2001			0.129					0.00140 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
BSL-4-4-6	'4-6	9/21/2001			0.186					0.00240 U
BSL-5-0-.5	'0-0.5	9/21/2001			0.0213					0.00100 U
BSL-6-0-1	'0-1	9/26/2001			0.00720 U					0.00140 U
BSL-6-1-2	'1-2	9/26/2001			0.210 J					0.00350 U
BSL-7-0-.5	'0-0.5	9/21/2001			0.0474					0.00130 U
BSL-8-0-1	'0-1	9/26/2001			0.0995 J					0.00190 U
BSL-9-.5-2	'0.5-2	9/21/2001			0.373					0.00200 U
BSL-9-0-.5	'0-0.5	9/21/2001			0.0777					0.00110 U
BT-B1-0-0.5	'0-0.5	9/18/2001			0.227 E					0.00110 U
BT-B2-0.5-2	'0.5-2	9/18/2001			0.0631					0.000830 U
BT-B2-0-0.5	'0-0.5	9/18/2001			0.0570					0.00120
BT-B3-0-0.5	'0-0.5	9/18/2001			0.0534					0.00120 U
BT-B4-0.5-2	'0.5-2	8/30/2001			0.0379					0.00200 U
BT-B4-0-0.5	'0-0.5	8/30/2001			0.0432					0.00310
BT-B5-0-.5	'0-0.5	10/2/2001			0.122 UJ					0.00110 U
BT-B6-0.5-2	'0.5-2	9/17/2001			0.00950 U					0.00190 U
BT-B6-0-0.5	'0-0.5	9/17/2001			0.0821					0.00140 U
CF-1-0-0.5	'0-0.5	8/31/2001		0.00520 JN	0.00480 U					0.000950 U
CF-1-2-4	'2-4	8/31/2001			0.00800 U					0.00460
CF-2-0-0.5	'0-0.5	8/28/2001			0.0360					0.00260 U
CF-3-0.5-2	'0.5-2	8/28/2001			0.0120 U					0.00490 U
CF-3-0-0.5	'0-0.5	8/28/2001			0.00900 U					0.00360 U
CF-4-0-0.5	'0-0.5	8/28/2001			0.0645					0.00250 U
CF-5-0-0.5	'0-0.5	8/28/2001			0.00570 U					0.00230 U
CF-5-4-6	'4-6	8/28/2001			0.0401					0.00200 U
CF-6-0-0.5	'0-0.5	8/28/2001			0.0366					0.00210 U
CF-7-0-0.5	'0-0.5	8/28/2001			0.00520 U					0.00210 U
CF-7-4-6	'4-6	8/28/2001			0.0612					0.00240 U
CF-8-0-0.5	'0-0.5	8/28/2001			0.00540 U					0.00220 U
CF-9-0.5-2	'0.5-2	8/31/2001			0.00710 U					0.00140 U
CF-9-0-0.5	'0-0.5	8/31/2001			0.00480 U					0.000960 U
DC-B12-0-0.5	'0-0.5	10/3/2001			0.108					0.00160 J
DC-B12-2-4	'2-4	10/3/2001			0.286 E					0.152

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001			0.216 E					0.000950 U
DC-SS11-0-0.5	'0-0.5	9/17/2001			0.0315					0.000860 U
DC-SS13-0-0.5	'0-0.5	9/17/2001			0.154					0.00170 U
DC-SS15-0-0.5	'0-0.5	9/17/2001			0.100					0.00120 U
DC-SS17-0-0.5	'0-0.5	9/17/2001			0.0648					0.00110 U
DC-SS2-0-0.5	'0-0.5	9/17/2001			0.289 E					0.00100 U
DC-SS3-0-0.5	'0-0.5	9/17/2001			0.209					0.00120 U
DC-SS6-0-0.5	'0-0.5	9/17/2001			0.106					0.00120 J
DC-SS7-0-0.5	'0-0.5	9/17/2001			0.210					0.00130 U
DC-SS9-0-0.5	'0-0.5	9/17/2001			0.0761					0.00370
DSP-1-0-0.5	'0-0.5	10/3/2001			0.107					0.00560
DSP-1-4-6	'4-6	11/19/2001			0.350 UJ					0.00120 U
DSP-2-0-0.5	'0-0.5	9/4/2001			0.0497					0.00120 U
DSP-3-0-0.5	'0-0.5	9/4/2001			0.0800					0.00110 U
DSP-3-2-4	'2-4	9/4/2001			0.00500 U					0.00100 U
DSP-4-0-0.5	'0-0.5	9/4/2001			0.0711					0.00110 U
DSP-4-4-6	'4-6	9/26/2001			0.0418					0.00100 U
DUP-01-010824	'0-0.5	8/24/2001			0.00630 U					0.00250 U
DUP-01-010831	'2-4	8/31/2001			0.0846					0.00180 U
DUP-01-010904	'0-0.5	9/4/2001			0.00520 U					0.00100 U
DUP-01-010905	'8-10	9/5/2001			0.0530					0.0468
DUP-01-010906	'0-8	9/6/2001			0.186					0.114
DUP-01-010913	'0-0.5	9/13/2001			0.0983					0.00180 U
DUP-01-010917	'0-0.5	9/17/2001			0.0348					0.00120 U
DUP-01-010926	'1-2	9/26/2001			0.219 J					0.00580
DUP-01-010927	'4-6	9/27/2001			0.00760 U					0.00150 U
DUP-01-021001	'0-0	10/2/2001			0.0959 UJ					0.000860 U
DUP-01-08 2201	'1.5-2	8/22/2001			0.140					0.00320
DUP-01-121001	'0-0	10/12/2001		0.0130 JN	0.166					0.00140 U
DUP-01-170402	'0-0	4/17/2002			2.80 U					0.280 U
DUP-02-010913	'0-0.5	9/13/2001			0.00520 U					0.00190
DUP-02-010921	'0-1	9/21/2001			0.186					0.00130 U
DUP-02-010926	'4-6	9/26/2001			0.0774 J					0.00180

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
DUP060807	'0-0	6/8/2007		0.200 U	0.260 U					0.0460 U
DUP-1-010828	'0-0.5	8/28/2001			0.0895					0.00220 U
DUP-1-010921	'0-0.5	9/21/2001			0.0505					0.00140 U
DUP110606	'15-17	11/6/2006		0.0980 U	0.200 UJ					0.629
DUP112006	'16-18	11/20/2006		0.250 U	0.500 U					0.0830 U
DUP112106	'10-12	11/21/2006		0.629 J	0.540 UJ					0.0900 U
DUP-120506	'0-4	12/5/2006		0.0690 U	0.140 UJ					0.0240 U
DUP-120606	'0-4	12/6/2006		0.0660 U	0.130 UJ					0.0748
DUPE071801	'0-0.5	7/18/2001			0.392 J					0.00260 U
EC-1	'0-1	8/21/2001			0.00640 U					0.00260 U
EC-2	'0-1	8/21/2001			0.00850 U					0.00340 U
EC-3	'0-1	8/21/2001			0.00700 U					0.00280 U
EC-4	'0-1	8/21/2001			0.00880 U					0.00350 U
EC-5	'0-1	8/21/2001			0.00510 U					0.00200 U
EC-6	'0-1	8/21/2001			0.00650 U					0.00260 U
EC-7	'0-1	8/21/2001			0.00740 U					0.00300 U
EC-8	'0-1	8/21/2001			0.00670 U					0.00270 U
EC-9	'0-1	8/21/2001	0.00840 JN		0.244					0.00260 U
ESR-1-0-1	'0-0.5	9/4/2001			0.00560 U					0.00110 U
ESR-1-4-6	'4-6	9/4/2001			0.00570 U					0.00110 U
HB-101A	'17-17	3/5/2007		0.0780 U	0.401 J					0.146
HB-102A	'0-0	3/13/2007		0.220 U	0.440 UJ					0.116 J
HB-102B	'0-0	3/14/2007		0.0860 U	0.170 UJ					0.620
HB-102C	'0-0	3/14/2007		0.0740 U	0.150 UJ					0.0553
H-B-103A	'17-17	2/20/2007		0.130 U	0.260 U					0.0430 U
H-B-104A	'17-17	2/23/2007		0.0920 U	0.190 UJ					0.129
H-B-104B	'17-17	2/23/2007		0.0760 U	0.150 UJ					0.0297 J
H-B-104C	'17-17	2/23/2007		0.0990 U	0.200 UJ					0.305
H-B-104D	'17-17	2/27/2007		0.0830 U	0.170 UJ					0.0280 U
H-B-104E	'17-17	2/27/2007		0.0770 U	0.160 UJ					0.0260 U
H-B-105C	'17-17	2/8/2007		0.0740 U	0.150 U					0.0250 U
H-B-105D	'17-17	2/8/2007		0.0850 U	0.170 U					0.0290 U
H-B-105E	'0-0	2/8/2007		0.0870 U	0.180 U					0.0290 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
HB-1A	'6.75-6.75	4/18/2002			1.17					5.06
HB-3A	'5.25-5.25	4/17/2002			3.70 U					0.370 U
HB-3B	'4.5-4.5	4/17/2002			0.0167 B					0.00350
HB-3C	'4.5-4.5	4/18/2002			0.00920 B					0.00110
HB-3D	'4.5-4.5	4/18/2002			0.0489 B					0.00280
HB-4A	'5.33-5.33	4/19/2002			0.0171 B					0.0165
HB-5A	'3-3	4/22/2002			0.0359 B					0.00500
HB-7A	'5-5	4/19/2002			0.0365 B					0.00790
HB-8A	'3-3	4/23/2002			0.0667 B					0.00170
HB-8B	'4.83-4.83	4/23/2002			0.0335 B					0.00160
HB-8C	'5.5-5.5	4/23/2002			0.120 B					0.410
HB-9A	'4.75-4.75	4/24/2002			0.0216 B	0.0370 JN				0.00310
HF-B1-0-0.5	'0-0.5	9/10/2001			0.0120 U					0.00230 U
HF-B1-8-10	'8-10	9/10/2001			0.0419					0.000810 U
HF-B2-0-0.5	'0-0.5	9/4/2001			0.00480 U					0.000970 U
HF-B2-4-6	'4-6	9/4/2001			0.00600 U					0.00120 U
HF-B3-0-.5	'0-0.5	10/2/2001	0.00720 JN		1.47 UJ					0.00120 U
HF-B3-8-10	'8-10	10/2/2001			3.11					0.00380
IB-1-0-2	'0-2	4/8/2002			0.0270 B					0.00460
IB-1-4-6	'4-6	4/8/2002			0.0282 B					0.0318
IB-2-12-14	'12-14	4/8/2002			0.0357 B					0.00570
IB-2-4-6	'4-6	4/8/2002			0.0481 B					0.00550
IB-3-4-6	'4-6	4/8/2002			0.0495 B					0.00240
IB-3-8-10	'8-10	4/8/2002			0.0529 B					0.00270
LB-101-0-1	'0-1	12/6/2006		0.0760 U	0.150 UJ					0.0260 U
LB-101-1-3	'1-3	12/6/2006		0.0610 U	0.120 UJ					0.0210 U
LB-102-0-1	'0-3	12/6/2006		0.0830 U	0.170 UJ					0.0280 U
LB-102-1-3	'3-7	12/6/2006		0.0690 U	0.140 UJ					0.0230 U
LB-103-0-1	'0-1	12/6/2006		0.0800 U	0.160 UJ					0.0270 U
LB-103-5-7	'5-7	12/6/2006		0.100 U	0.210 UJ					0.0420 J
LHP-101-0-1	'0-1	12/4/2006		0.0920 U	0.190 UJ					0.0310 U
LHP-101-5-8	'4-8	12/4/2006		0.160 U	0.330 UJ					2.19
LHP-102-0-1	'0-1	12/5/2006		0.0960 U	0.190 UJ					0.0320 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
LHP-102-7-9	'7-9	12/5/2006		0.00190 U	0.00380 UJ					0.00210
LHP-102-7-9	'7-9	12/6/2006		0.150 U	0.300 UJ					0.0674 J
LHP-103-0-1	'0-1	12/5/2006		0.0800 U	0.160 UJ					0.0270 U
LHP-103-1-3	'1-3	12/5/2006		0.0880 U	0.180 UJ					0.0300 U
LHP-104-0-1	'0-1	12/5/2006		0.0770 U	0.160 UJ					0.0260 U
LHP-104-7-9	'4-8	12/5/2006		0.120 U	0.240 UJ					0.156
LHP-105-0-1	'0-1	12/5/2006		0.0710 U	0.140 UJ					0.0240 U
LHP-105-1-3	'1-3	12/5/2006		0.0900 U	0.180 UJ					0.0300 U
LHP-106-0-1	'0-1	12/4/2006		0.0680 U	0.140 UJ					0.0230 U
LHP-106-1-3	'1-3	12/4/2006		0.0990 U	0.200 UJ					0.0340 U
LHP-107-0-1	'0-1	12/5/2006		0.0650 U	0.130 UJ					0.0220 U
LHP-107-5-7	'4-8	12/5/2006		0.0810 U	0.160 UJ					0.0270 U
LHP-108-0-1	'0-1	12/6/2006		0.104 J	0.170 UJ					0.0290 U
LHP-108-3-7	'3-7	12/6/2006		0.0850 U	0.170 UJ					0.0290 U
LHP-109-0-1	'0-1	12/6/2006		0.0860 U	0.170 UJ					0.0290 U
LHP-109-7-9	'7-9	12/6/2006		0.140 U	0.280 UJ					0.117
LHP-110-0-1	'0-1	12/4/2006		0.150 U	0.300 UJ					0.0500 U
LHP-111-0-1	'0-1	12/4/2006		0.0690 U	0.140 UJ					0.0240 U
LHP-112-0-1	'0-1	12/4/2006		0.0720 U	0.150 UJ					0.0250 U
LHP-113-0-1	'0-1	12/4/2006		0.0690 U	0.140 UJ					0.0230 U
LHP-114-0-1	'0-1	12/4/2006		0.0670 U	0.140 UJ					0.0230 U
LHP-115-0-1	'0-1	12/4/2006		0.0660 U	0.130 UJ					0.0220 U
LHP-116-0-1	'0-1	12/4/2006		0.0730 U	0.150 UJ					0.0250 U
LHP-117-0-1	'0-1	12/4/2006		0.0780 U	0.160 UJ					0.0260 U
LHP-118-0-1	'0-1	12/4/2006		0.0990 U	0.200 UJ					0.0340 U
LHP-119-0-1	'0-1	12/4/2006		0.0960 U	0.190 UJ					0.0330 U
LHP-120-0-1	'0-1	12/4/2006		0.130 U	0.260 UJ					0.0440 U
LHP-121-0-1	'0-1	12/6/2006		0.0950 U	0.190 UJ					0.0511 J
LHP-122-0-1	'0-1	12/6/2006		0.0760 U	0.160 UJ					0.0260 U
LHP-123-0-1	'0-1	12/4/2006		0.0840 U	0.170 UJ					0.0290 U
LHP-124-.5-2	'0.5-2	10/27/2006		0.110 U	0.220 UJ					0.0370 U
LHP-124-2-4	'2-4	10/27/2006		0.0780 U	0.160 UJ					0.0260 U
LHP-124-28-30	'28-30	10/31/2006		0.110 U	0.220 U					0.0360 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006		0.0870 U	0.180 UJ					0.0290 U
LHP-125-10.5-12	'10.5-12	11/1/2006		0.100 U	0.210 U					0.0350 U
LHP-125-12-14	'12-14	11/1/2006		0.0790 U	0.160 U					0.0270 U
LHP-125-4-6	'4-6	10/27/2006		0.0910 U	0.180 UJ					0.0310 U
LHP-126-10.5-12	'10.5-12	11/1/2006		0.680 UJ	1.40 UJ					0.230 UJ
LHP-126-14-16	'14-16	11/1/2006		0.0840 U	0.170 U					0.0290 U
LHP-126-2-4	'2-4	10/26/2006		0.0870 U	0.180 U					0.0300 U
LHP-126-8-10	'9-10	10/26/2006		0.130 U	0.260 U					0.0440 U
LHP-127-0-1	'0-1	12/6/2006		0.0990 U	0.200 UJ					0.0340 U
LHP-127-3-5	'3-5	12/6/2006		0.0760 U	0.160 UJ					0.0260 U
LHP-128-0-1	'0-4	12/6/2006		0.0640 U	0.130 UJ					0.0989
LHP-128-7-8	'17-17	12/6/2006		0.140 U	0.280 UJ					0.211
LP-1-0-0.5	'0-0.5	8/27/2001			0.00620 U					0.00250 U
LP-10-0.5-2	'0.5-2	8/27/2001			0.0449					0.00200 U
LP-10-0-0.5	'0-0.5	8/27/2001			0.181					0.00160 J
LP-101-11-13	'11-13	11/2/2006		0.240 U	0.490 U					0.0820 U
LP-101-14-16	'14-16	11/2/2006		0.220 U	0.440 U					0.0740 U
LP-101-26-28	'26-28	11/2/2006		0.0780 U	0.160 U					0.0270 U
LP-101-50-52	'50-52	11/2/2006		0.0790 U	0.160 U					0.0270 U
LP-11-0-0.5	'0-0.5	8/27/2001			0.142					0.00270 U
LP-12-0-0.5	'0-0.5	8/27/2001			0.0263					0.00290 U
LP-12-4-6	'4-6	8/27/2001			0.00580 U					0.00230 U
LP-13-0-0.5	'0-0.5	8/24/2001			0.206					0.00200 U
LP-14-0.5-2	'0.5-2	8/24/2001			0.0800					0.00140 J
LP-14-0-0.5	'0-0.5	8/24/2001			0.0651					0.00260 U
LP-15-0-0.5	'0-0.5	8/24/2001			0.0492					0.00270 U
LP-16-0.5-2	'0.5-2	8/27/2001			0.0338					0.00170 U
LP-16-0-0.5	'0-0.5	8/27/2001			0.0495					0.00290 U
LP-2-0.5-2	'0.5-2	8/28/2001			0.0320					0.00190 U
LP-2-0-0.5	'0-0.5	8/28/2001			0.00690 U					0.00280 U
LP-3-0-0.5	'0-0.5	8/27/2001			0.0946					0.00230 U
LP-4 .5-2	'0.5-2	8/21/2001			0.640 U					0.250 U
LP-4 0-.5	'0-0.5	8/21/2001			0.580 U					0.230 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001			0.152					0.00250 U
LP-6-0-0.5	'0-0.5	8/27/2001			0.00640 U					0.00250 U
LP-6-4-6	'4-6	8/27/2001			0.00660 U					0.00260 U
LP-7-0-0.5	'0-0.5	8/24/2001			0.135					0.00120 J
LP-8-0-0.5	'0-0.5	8/24/2001			0.00620 U					0.00250 U
LP-8-10-12	'10-12	8/24/2001			0.0557					0.00330 J
LP-9-0-0.5	'0-0.5	8/24/2001			0.0878					0.00280 U
MW-11D-12-14	'12-14	12/14/2006		0.270 U	0.550 U					0.0920 U
MW-11D-14-16	'14-16	12/14/2006		0.0960 U	0.190 UJ					0.0320 U
MW-11D-16-18	'16-18	12/14/2006		0.0900 U	0.180 UJ					0.0310 U
MW-14D-13-15	'13-15	11/14/2006		0.100 U	0.210 UJ					0.0350 U
MW-14D-17-19	'17-19	11/14/2006		0.0850 U	0.170 U					0.0290 U
MW-16D-13-15	'13-15	11/17/2006		0.111 J	0.150 UJ					0.117
MW-16D-17-19	'17-19	11/20/2006		0.0730 U	0.150 U					0.0822
MW-17D-15-17	'15-17	11/10/2006		0.0990 U	0.200 UJ					0.0340 U
MW-17D-17-19	'17-19	11/10/2006		0.0760 U	0.150 UJ					0.0260 U
MW-18D-13-15	'13-15	11/13/2006		0.120 U	0.230 UJ					0.0829
MW-18D-17-19	'17-19	11/13/2006		0.0780 U	0.160 UJ					0.0363 J
MW-20D-12-14	'12-14	11/9/2006		0.120 U	0.250 UJ					0.0410 U
MW-20D-32-34	'32-32.9	11/10/2006		0.0710 U	0.140 UJ					0.0240 U
MW-20D-36-38	'36-38	11/10/2006		0.0850 U	0.170 UJ					0.0290 U
MW-21D-13-15	'13-13.7	11/16/2006		0.120 U	0.230 UJ					0.0390 U
MW-21D-15-17	'15-17	11/16/2006		0.0800 U	0.160 UJ					0.0270 U
MW-23D-15-17	'15-16	11/15/2006		0.110 U	0.210 U					0.0360 U
MW-23D-37-39	'37-37.9	11/15/2006		0.100 U	0.200 UJ					0.0340 U
MW-25D-10-12	'10-12	11/21/2006		0.632 J	0.530 UJ					0.0890 U
MW-25D-33-35	'33-35	12/18/2006		0.0950 U	0.190 UJ					0.0320 U
MW-26S-8-10	'8-10	10/26/2006		0.110 U	0.210 U					0.0360 U
MW-6D-0-2	'0-2	11/8/2006		0.0770 U	0.160 U					0.0260 U
MW-6D-12-14	'12-14	11/8/2006		0.340 U	0.700 U					0.120 U
MW-6D-16-18	'16-18	11/20/2006		0.220 U	0.440 U					0.0740 U
MW-6D-30-32	'30-32	11/21/2006		0.100 U	0.210 UJ					0.0340 U
PCA-1-0-.5	'0-2	7/17/2001			0.234					0.0160 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
PCA-1-4-6	'4-6	7/17/2001			0.0450					0.00280 U
PCA-2-0-.5	'0-0.5	7/17/2001			0.0926					0.00200 U
PCA-3-0-0.5	'0-0.5	9/13/2001			0.183					0.00120 U
PCA-3-4-6	'4-6	9/13/2001			0.0330					0.00300
PCA-4-0-0.5	'0-0.5	9/13/2001			0.0508					0.00110 U
PCA-4-4-6	'4-6	9/26/2001			0.125					0.00440
PCA-5-0.5-2	'0.5-2	9/7/2001			0.0389					0.000860 U
PCA-5-0-0.5	'0-0.5	9/7/2001			0.0508					0.00690
PCA-6-0-0.5	'0-0.5	9/7/2001			0.0727					0.00130 U
RR-1 0-0.5	'0-0.5	8/22/2001			0.00480 U					0.00260
RR-1 14-16	'14-16	8/22/2001			0.290 U					0.0532 J
RR-10 0-.5	'0-0.5	10/12/2001			0.195					0.00130 U
RR-11 0-.5	'0-0.5	10/12/2001		0.260 JN	0.276					0.00130 U
RR-12 0-.5	'0-0.5	10/12/2001			0.139					0.00100 U
RR-2-0-0.5	'0-0.5	9/13/2001			0.0393					0.000990 U
RR-2-8-10	'8-10	9/13/2001			0.114					0.00150 U
RR-3-0-0.5	'0-0.5	9/13/2001			0.0727					0.00110 U
RR-4-0-0.5	'0-0.5	9/10/2001			0.00820 U					0.00160 U
RR-4-6-8	'6-8	9/13/2001			0.0420					0.00210 U
RR-5-0-0.5	'0-0.5	9/10/2001			0.0993					0.00160
RR-6-0-0.5	'0-0.5	9/10/2001			0.0658					0.00130 U
RR-6-8-10	'8-10	9/10/2001			0.0716					0.00160
RR-7-0-0.5	'0-0.5	9/10/2001			0.0610					0.00100 U
RR-8-0-0.5	'0-0.5	9/26/2001			0.0752 J					0.00150 U
RR-8-6-8	'6-8	9/26/2001			0.0240 U					0.00480 U
RR-9 0-.5	'0-0.5	10/12/2001		0.120 JN	0.488					0.00130 U
SC-1	'0-1	8/21/2001			0.00760 U					0.00300 U
SC-2	'0-1	8/22/2001			0.194					0.00260 U
SC-3	'0-1	8/22/2001			0.144					0.00280 U
SILO-B1-0-0.5	'0-0.5	9/6/2001			0.0756					0.00150
SILO-B1-6-8	'6-8	9/6/2001			0.792					0.270
SILO-B2-0-0.5	'0-0.5	9/6/2001			0.00520 U					0.00260
SILO-B3-0-0.5	'0-0.5	9/6/2001			0.0628					0.00270

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
SILO-B3-6-8	'6-8	9/6/2001			0.0346					0.00190
SILO-B4-0-0.5	'0-0.5	9/6/2001			0.0464					0.00160 U
SPR-1-0-0.5	'0-0.5	9/5/2001			0.166					0.00110 U
SPR-1-8-10	'8-10	9/5/2001			0.0120 U					0.339
SPR-2A-0-0.5	'0-0.5	7/19/2001			0.0829					0.00220 J
SPR-2A-8-10	'8-10	7/19/2001			0.980 U			2.00 JN		10.8
SPR-2B-0-0.5	'0-0.5	7/19/2001			0.0472					0.00490 U
SPR-2B-10-12	'10-12	7/19/2001			1.10 U			3.50 JN		19.1
SPR-3 0-.5	'0-0.5	8/21/2001			0.430 U					0.170 U
SPR-3 4-6	'4-6	8/21/2001			0.540 U					0.220 U
SPR-4A-0-0.5	'0-0.5	7/19/2001			0.0500					0.00200 U
SPR-4A-8-10	'8-10	7/19/2001			1.10 U					3.11
SPR-4B-0-0.5	'0-0.5	8/22/2001			0.0304					18.9
SPR-4B-4-6	'4-6	8/23/2001			0.0506					7.67
SPR-4C-0-0.5	'0-0.5	8/23/2001			0.0466					0.00230 U
SPR-4C-4-6	'4-6	8/23/2001			0.360 U					13.1
SPR-5-0-0.5	'0-0.5	9/5/2001			0.00600 U					0.00120 U
SPR-5-2-4	'2-4	9/5/2001			0.00820 U					0.167
SPR-6-0.5-2	'0.5-2	9/13/2001			0.0851					0.00120 U
SPR-6-0-0.5	'0-0.5	9/13/2001			0.00530 U					0.00110 U
SR-1-0-.5	'0-0.5	7/17/2001			0.162					0.00190 J
SR-2-0-.5	'0-0.5	7/17/2001			0.217					0.00180 J
ST-1-0-0.5	'0-0.5	9/5/2001			0.0379					0.00330
ST-2-0-0.5	'0-0.5	9/5/2001			0.0400					0.00180
ST-3-0-0.5	'0-0.5	9/4/2001			0.00590 U					0.00120 U
ST-3-4-6	'4-6	9/4/2001			0.0569					0.00160
TES-1-0-1	'0-1	12/5/2006			0.200 UJ					0.0340 U
TES-2-0-1	'0-1	12/4/2006		0.253 J	0.230 UJ					0.0390 U
TES-3-0-1	'0-1	12/4/2006		0.0980 U	0.200 UJ					0.0330 U
TES-4-0-1	'0-1	12/5/2006			0.240 UJ					0.183
TLN-1 .5-2	'0.5-2	8/20/2001			0.0853					0.00180 J
TLN-1 0-.5	'0-0.5	8/20/2001			0.0346					0.00260
TLN-2-0-0.5	'0-0.5	7/19/2001			0.0381					0.00310 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001			0.420 J					0.00230 U
TLN-3-2-4	'2-4	7/17/2001			0.0407 J					0.00260 J
TLN-4 0-.5	'0-0.5	8/20/2001			0.0267					0.00220 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001			0.0346					0.00190 U
TLN-5 .5-2	'0.5-2	8/20/2001			0.0658					0.00490 U
TLN-5 0-.5	'0-0.5	8/20/2001			0.407					0.00260 U
TLN-5-4-6	'4-6	8/30/2001			0.192					0.00100 U
TLN-6 0-.5	'0-0.5	8/20/2001			0.206					0.00190 U
TLS-10 0-.5	'0-0.5	8/21/2001			0.520 U					0.210 U
TLS-10 8-10	'8-10	8/21/2001			0.620 U					1.71
TLS-1-0-0.5	'0-0.5	9/5/2001			0.0120 U					0.00230 U
TLS-11-0-0.5	'0-0.5	9/7/2001			0.00700 U					0.0265
TLS-2-0-0.5	'0-0.5	9/7/2001			0.113					0.00100 U
TLS-2-6-8	'6-8	9/7/2001			0.101					0.00360 U
TLS-3 0-.5	'0-0.5	8/21/2001			0.460 U					0.180 U
TLS-4-0-0.5	'0-0.5	9/7/2001			0.0352					0.00100 U
TLS-4-8-10	'8-10	9/7/2001			0.261					0.0184
TLS-5 0-0.5	'0-0.5	8/21/2001			0.0217					0.00210 U
TLS-5-8-10	'8-10	9/26/2001			0.0706 J					0.00310
TLS-6 0-.5	'0-0.5	8/21/2001			0.470 U					0.190 U
TLS-6-3-5	'3-5	9/26/2001			0.00530 U					0.00110 U
TLS-7 0-.5	'0-0.5	8/21/2001			0.550 U					0.220 U
TLS-8-0-0.5	'0-0.5	9/7/2001			0.0338					0.00110 U
TLS-8-6-8	'6-8	9/7/2001			0.0601					0.00210 U
TLS-9 0-.5	'0-0.5	8/21/2001			0.450 U					0.180 U
TP-105	'0-0	6/8/2007		0.220 U	0.300 U					0.0520 U
TP-105A	'0-0	6/8/2007		0.190 U	0.250 U					0.0450 U
TP-106-A	'0-0	6/8/2007		0.230 U	0.300 U					0.0530 U
TP-106-B	'0-0	6/8/2007		0.150 U	0.190 U					0.0340 U
WWT-1-0-0.5	'0-0.5	7/19/2001			0.0468					0.00290 U
WWT-101-15-17	'15-17	11/6/2006		0.0950 U	0.190 UJ					0.842
WWT-101-21-23	'21-23	11/6/2006		0.0800 U	0.160 UJ					0.0320 J
WWT-1-12-14	'12-14	8/23/2001			0.332					0.108

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetaldehyde mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg	Alpha_-Pinene mg/kg	Benzene, (1,2-Dimethoxyethyl)- mg/kg	Benzene, (2-Methoxyethenyl)- mg/kg	Benzene, 1-Methyl-4-Nitro mg/kg	Benzene mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001			0.0226					0.00230 U
WWT-2-12-14	'12-14	8/23/2001			0.00920 U					0.363 E
WWT-3-0-0.5	'0-0.5	8/23/2001			0.0757					0.00260 U
WWT-3-12-14	'12-14	8/23/2001			0.0361					0.00820

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
SRS								3	250	53
12K-B1-0.5-2	'0.5-2	9/6/2001						0.00480 U	0.00480 U	0.00480 U
12K-B1-0-0.5	'0-0.5	9/6/2001						0.00540 U	0.00540 U	0.00540 U
12K-B2-0.5-2	'0.5-2	9/6/2001						0.00460 U	0.00460 U	0.00460 U
12K-B2-0-0.5	'0-0.5	9/6/2001						0.00500 U	0.00500 U	0.00500 U
150K-1-0.5-2	'0.5-2	9/10/2001						0.00420 U	0.00420 U	0.00420 U
150K-1-0-0.5	'0-0.5	9/10/2001						0.00450 U	0.00450 U	0.00450 U
230-B1-0.5	'0-0.5	10/2/2001						0.00540 U	0.00540 U	0.00540 U
230-B10-0-0.5	'0-0.5	8/30/2001						0.0310 U	0.0310 U	0.0310 U
230-B10-1.5-2	'1.5-2	8/30/2001						0.00650 U	0.00650 U	0.00650 U
230-B11-0-0.5	'0-0.5	8/30/2001						0.00540 U	0.00540 U	0.00540 U
230-B11-1.5-2	'1.5-2	8/30/2001						0.00660 U	0.00660 U	0.00660 U
230-B1-4-6	'4-6	10/2/2001						3.00 U	3.00 U	3.00 U
230-B2-0-0.5	'0-0.5	8/30/2001						0.00540 U	0.00540 U	0.00540 U
230-B2-1.5-2	'1.5-2	8/30/2001						0.00440 U	0.00440 U	0.00440 U
230-B3-0-0.5	'0-0.5	8/30/2001						0.00700 U	0.00700 U	0.00700 U
230-B3-1.5-2	'1.5-2	8/30/2001						0.00480 U	0.00480 U	0.00480 U
230-B4-0-0.5	'0-0.5	8/30/2001						0.00500 U	0.00500 U	0.00500 U
230-B4-1.5-2	'1.5-2	8/30/2001						0.00580 U	0.00580 U	0.00580 U
230-B5-0-0.5	'0-0.5	9/13/2001			0.0120 JN	0.0160 JN	0.0200 JN	0.00580 U	0.00580 U	0.00580 U
230-B5-1.5-2	'1.5-2	9/13/2001						0.00610 U	0.00610 U	0.00610 U
230-B6 0-0.5	'0-0.5	8/22/2001						0.00500 U	0.00500 U	0.00500 U
230-B6 1.5-2	'1.5-2	8/22/2001						0.00490 U	0.00490 U	0.00490 U
230-B7 0-0.5	'0-0.5	8/22/2001						0.00760 U	0.00760 U	0.00760 U
230-B7 1.5-2	'1.5-2	8/22/2001						0.00520 U	0.00520 U	0.00520 U
230-B8 1.5-2	'1.5-2	8/22/2001						0.00640 U	0.00640 U	0.00640 U
230-B9 0-0.5	'0-0.5	8/22/2001						0.00560 U	0.00560 U	0.00560 U
230-B9 0-0.5	'0-0.5	8/22/2001						0.00510 U	0.00510 U	0.00510 U
230-B9 1.5-2	'1.5-2	8/22/2001						0.00520 U	0.00520 U	0.00520 U
231-B1-0-0.5	'0-0.5	10/5/2001						0.00620 U	0.00620 U	0.00620 U
231-B10-0-0.5	'0-0.5	9/17/2001						0.00960 U	0.00960 U	0.00960 U
231-B11-0-0.5	'0-0.5	9/19/2001						0.00600 U	0.00600 U	0.00600 U
231-B11-8-10	'8-10	9/19/2001						0.00920 U	0.00920 U	0.00920 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001						0.00700 U	0.00700 U	0.00700 U
231-B13-0-0.5	'0-0.5	9/19/2001						0.0140 U	0.0140 U	0.0140 U
231-B13-8-10	'9-10	9/27/2001						12.0 U	12.0 U	12.0 U
231-B14-0-0.5	'0-0.5	9/19/2001						0.00520 U	0.00520 U	0.00520 U
231-B2-0.5-2	'0.5-2	8/22/2001						0.00560 U	0.00560 U	0.00560 U
231-B2-0-0.5	'0-0.5	8/22/2001						0.00580 U	0.00580 U	0.00580 U
231-B3-0-0.5	'0-0.5	8/22/2001						0.00580 U	0.00580 U	0.00580 U
231-B4-0-0.5	'0-0.5	8/30/2001						0.00870 U	0.00870 U	0.00870 U
231-B4-6-8	'6-8	9/27/2001						0.00520 U	0.00520 U	0.00520 U
231-B5-0.5-2	'0.5-2	9/19/2001						0.00540 U	0.00540 U	0.00540 U
231-B6-0-0.5	'0-0.5	9/27/2001						0.00540 U	0.00540 U	0.00540 U
231-B6-4-6	'4-6	9/27/2001						0.0140 U	0.0140 U	0.0140 U
231-B7-0-0.5	'0-0.5	9/13/2001						0.00570 U	0.00570 U	0.00570 U
231-B8-0-0.5	'0-0.5	9/27/2001						0.0270 UJ	0.0270 UJ	0.0270 UJ
231-B8-8-10	'8-10	9/27/2001						4.80 U	4.80 U	4.80 U
231-B9-0.5-2	'0.5-2	9/27/2001						0.00860 U	0.00860 U	0.00860 U
231-B9-0-0.5	'0-0.5	9/27/2001						0.00800 U	0.00800 U	0.00800 U
240-1-0-0.5	'0-0.5	9/26/2001						0.00520 U	0.00520 U	0.00520 U
240-1-8-10	'8-10	10/1/2001						0.00600 U	0.00600 U	0.00600 U
5K-B1-0-0.5	'0-0.5	10/1/2001						0.00540 U	0.00540 U	0.00540 U
5K-B2-0-0.5	'0-0.5	8/31/2001						0.00710 U	0.00710 U	0.00710 U
5K-B2-8-10	'8-10	8/31/2001						0.00480 U	0.00480 U	0.00480 U
5K-B3-0-0.5	'0-0.5	9/26/2001						0.00570 U	0.00570 U	0.00570 U
5K-B4-0-0.5	'0-0.5	10/1/2001						0.00650 U	0.00650 U	0.00650 U
5K-B4-4-6	'4-6	10/1/2001						0.310 U	0.310 U	0.310 U
5K-B5-0-0.5	'0-0.5	8/31/2001						0.00550 U	0.00550 U	0.00550 U
5K-B5-4-6	'4-6	9/26/2001			0.00880 JN			0.00510 U	0.00510 U	0.00510 U
AB-1-0-0.5	'0-0.5	9/4/2001						0.0210 U	0.0210 U	0.0210 U
AB-2-0.5-2	'0.5-2	9/4/2001						0.00760 U	0.00760 U	0.00760 U
AB-2-0-0.5	'0-0.5	9/4/2001						0.00500 U	0.00500 U	0.00500 U
ADN-1-0-0.5	'0-0.5	9/5/2001						0.00470 U	0.00470 U	0.00470 U
ADN-1-8-10	'8-10	9/5/2001						0.880 U	0.880 U	0.880 U
ADN-2-0-0.5	'0-0.5	9/5/2001						0.00480 U	0.00480 U	0.00480 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
ADN-2-10-11	'10-11	9/27/2001						0.00520 U	0.00520 U	0.00520 U
ADS-1-0-.5	'0-0.5	7/17/2001						0.00760 U	0.00760 U	0.00760 U
ADS-10-0-0.5	'0-2	7/18/2001						0.00590 U	0.00590 U	0.00590 U
ADS-101-0-1	'0-1	12/5/2006						0.0260 U	0.0250 U	0.0210 U
ADS-101-1-3	'1-3	12/5/2006						0.0210 U	0.0200 U	0.0170 U
ADS-102-0-1.5	'0-2	12/5/2006						0.0220 U	0.0210 U	0.0180 U
ADS-102-7-8	'4-8	12/6/2006						0.0270 U	0.0250 U	0.0220 U
ADS-10-4-6	'4-6	7/18/2001						0.0120 U	0.0120 U	0.0120 U
ADS-11-0-0.5	'0-2	7/18/2001						0.00620 U	0.00620 U	0.00620 U
ADS-12-0.5-2	'0.5-2	7/18/2001						0.00560 U	0.00560 U	0.00560 U
ADS-12-0-0.5	'0-0.5	7/18/2001						0.00820 U	0.00820 U	0.00820 U
ADS-2-0-0.5	'0-0.5	7/18/2001						0.00610 U	0.00610 U	0.00610 U
ADS-2-4-6	'4-6	7/18/2001						0.00490 U	0.00490 U	0.00490 U
ADS-3-0-0.5	'0-0.5	7/18/2001						0.00570 U	0.00570 U	0.00570 U
ADS-4-0-0.5	'0-2	7/18/2001						0.00600 U	0.00600 U	0.00600 U
ADS-4-12-14	'12-14	7/18/2001						0.00880 U	0.00880 U	0.00880 U
ADS-5-0-0.5	'0-0.5	7/18/2001						0.00530 U	0.00530 U	0.00530 U
ADS-5-4-6	'4-6	9/27/2001						0.00500 U	0.00500 U	0.00500 U
ADS-6-0.5-2	'0.5-2	7/18/2001						0.00560 U	0.00560 U	0.00560 U
ADS-6-0-0.5	'0-0.5	7/18/2001						0.00480 U	0.00480 U	0.00480 U
ADS-7-0-.5	'0-0.5	7/17/2001						0.00520 U	0.00520 U	0.00520 U
ADS-8-0-0.5	'0-0.5	7/18/2001						0.00960 U	0.00960 U	0.00960 U
ADS-8-4-6	'4-6	7/18/2001						0.00910 U	0.00910 U	0.00910 U
ADS-9-0-0.5	'0-0.5	7/18/2001						0.00930 U	0.00930 U	0.00930 U
BLIND DUP	'0-0	8/21/2001						0.00620 U	0.00620 U	0.00620 U
BSL-10-0-1	'0-1	9/21/2001						0.00700 U	0.00700 U	0.00700 U
BSL-1-0-1	'0-1	9/20/2001						0.00580 U	0.00580 U	0.00580 U
BSL-11-0-1	'0-1	9/26/2001						0.00580 U	0.00580 U	0.00580 U
BSL-12-0-1	'0-1	9/26/2001						0.00520 U	0.00520 U	0.00520 U
BSL-1-4-6	'4-6	9/20/2001						0.00720 U	0.00720 U	0.00720 U
BSL-2-0-1	'0-1	9/21/2001						0.00760 U	0.00760 U	0.00760 U
BSL-3-0-0.5	'0-0.5	9/20/2001						0.00520 U	0.00520 U	0.00520 U
BSL-4-0-1	'0-0.5	9/21/2001						0.00720 U	0.00720 U	0.00720 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
BSL-4-4-6	'4-6	9/21/2001						0.0120 U	0.0120 U	0.0120 U
BSL-5-0-.5	'0-0.5	9/21/2001						0.00520 U	0.00520 U	0.00520 U
BSL-6-0-1	'0-1	9/26/2001						0.00720 U	0.00720 U	0.00720 U
BSL-6-1-2	'1-2	9/26/2001						0.0180 U	0.0180 U	0.0180 U
BSL-7-0-.5	'0-0.5	9/21/2001						0.00640 U	0.00640 U	0.00640 U
BSL-8-0-1	'0-1	9/26/2001						0.00940 U	0.00940 U	0.00940 U
BSL-9-.5-2	'0.5-2	9/21/2001						0.0100 U	0.0100 U	0.0100 U
BSL-9-0-.5	'0-0.5	9/21/2001						0.00570 U	0.00570 U	0.00570 U
BT-B1-0-0.5	'0-0.5	9/18/2001						0.00560 U	0.00560 U	0.00560 U
BT-B2-0.5-2	'0.5-2	9/18/2001						0.00420 U	0.00420 U	0.00420 U
BT-B2-0-0.5	'0-0.5	9/18/2001						0.00460 U	0.00460 U	0.00460 U
BT-B3-0-0.5	'0-0.5	9/18/2001						0.00580 U	0.00580 U	0.00580 U
BT-B4-0.5-2	'0.5-2	8/30/2001						0.00490 U	0.00490 U	0.00490 U
BT-B4-0-0.5	'0-0.5	8/30/2001						0.00660 U	0.00660 U	0.00660 U
BT-B5-0-.5	'0-0.5	10/2/2001						0.00540 U	0.00540 U	0.00540 U
BT-B6-0.5-2	'0.5-2	9/17/2001						0.00950 U	0.00950 U	0.00950 U
BT-B6-0-0.5	'0-0.5	9/17/2001						0.00700 U	0.00700 U	0.00700 U
CF-1-0-0.5	'0-0.5	8/31/2001						0.00480 U	0.00480 U	0.00480 U
CF-1-2-4	'2-4	8/31/2001						0.00800 U	0.00800 U	0.00800 U
CF-2-0-0.5	'0-0.5	8/28/2001						0.00650 U	0.00650 U	0.00650 U
CF-3-0.5-2	'0.5-2	8/28/2001						0.0120 U	0.0120 U	0.0120 U
CF-3-0-0.5	'0-0.5	8/28/2001						0.00900 U	0.00900 U	0.00900 U
CF-4-0-0.5	'0-0.5	8/28/2001						0.00640 U	0.00640 U	0.00640 U
CF-5-0-0.5	'0-0.5	8/28/2001						0.00570 U	0.00570 U	0.00570 U
CF-5-4-6	'4-6	8/28/2001						0.00500 U	0.00500 U	0.00500 U
CF-6-0-0.5	'0-0.5	8/28/2001						0.00520 U	0.00520 U	0.00520 U
CF-7-0-0.5	'0-0.5	8/28/2001						0.00520 U	0.00520 U	0.00520 U
CF-7-4-6	'4-6	8/28/2001						0.00600 U	0.00600 U	0.00600 U
CF-8-0-0.5	'0-0.5	8/28/2001						0.00540 U	0.00540 U	0.00540 U
CF-9-0.5-2	'0.5-2	8/31/2001						0.00710 U	0.00710 U	0.00710 U
CF-9-0-0.5	'0-0.5	8/31/2001						0.00480 U	0.00480 U	0.00480 U
DC-B12-0-0.5	'0-0.5	10/3/2001						0.00980 U	0.00980 U	0.00980 U
DC-B12-2-4	'2-4	10/3/2001						0.00680 U	0.00680 U	0.00680 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001						0.00480 U	0.00480 U	0.00480 U
DC-SS11-0-0.5	'0-0.5	9/17/2001						0.00430 U	0.00430 U	0.00430 U
DC-SS13-0-0.5	'0-0.5	9/17/2001						0.00850 U	0.00850 U	0.00850 U
DC-SS15-0-0.5	'0-0.5	9/17/2001						0.00600 U	0.00600 U	0.00600 U
DC-SS17-0-0.5	'0-0.5	9/17/2001						0.00550 U	0.00550 U	0.00550 U
DC-SS2-0-0.5	'0-0.5	9/17/2001						0.00520 U	0.00520 U	0.00520 U
DC-SS3-0-0.5	'0-0.5	9/17/2001						0.00590 U	0.00590 U	0.00590 U
DC-SS6-0-0.5	'0-0.5	9/17/2001						0.00780 U	0.00780 U	0.00780 U
DC-SS7-0-0.5	'0-0.5	9/17/2001						0.00640 U	0.00640 U	0.00640 U
DC-SS9-0-0.5	'0-0.5	9/17/2001						0.00470 U	0.00470 U	0.00470 U
DSP-1-0-0.5	'0-0.5	10/3/2001						0.00720 U	0.00720 U	0.00720 U
DSP-1-4-6	'4-6	11/19/2001						0.00620 U	0.00620 U	0.00620 U
DSP-2-0-0.5	'0-0.5	9/4/2001						0.00580 U	0.00580 U	0.00580 U
DSP-3-0-0.5	'0-0.5	9/4/2001						0.00560 U	0.00560 U	0.00560 U
DSP-3-2-4	'2-4	9/4/2001						0.00500 U	0.00500 U	0.00500 U
DSP-4-0-0.5	'0-0.5	9/4/2001						0.00560 U	0.00560 U	0.00560 U
DSP-4-4-6	'4-6	9/26/2001						0.00520 U	0.00520 U	0.00520 U
DUP-01-010824	'0-0.5	8/24/2001						0.00630 U	0.00630 U	0.00630 U
DUP-01-010831	'2-4	8/31/2001						0.00880 U	0.00880 U	0.00880 U
DUP-01-010904	'0-0.5	9/4/2001						0.00520 U	0.00520 U	0.00520 U
DUP-01-010905	'8-10	9/5/2001						0.00530 U	0.00530 U	0.00530 U
DUP-01-010906	'0-8	9/6/2001						0.00880 U	0.00880 U	0.00880 U
DUP-01-010913	'0-0.5	9/13/2001						0.00910 U	0.00910 U	0.00910 U
DUP-01-010917	'0-0.5	9/17/2001						0.00580 U	0.00580 U	0.00580 U
DUP-01-010926	'1-2	9/26/2001						0.0120 U	0.0120 U	0.0120 U
DUP-01-010927	'4-6	9/27/2001						0.00760 U	0.00760 U	0.00760 U
DUP-01-021001	'0-0	10/2/2001						0.00430 U	0.00430 U	0.00430 U
DUP-01-08 2201	'1.5-2	8/22/2001						0.00600 U	0.00600 U	0.00600 U
DUP-01-121001	'0-0	10/12/2001						0.00700 U	0.00700 U	0.00700 U
DUP-01-170402	'0-0	4/17/2002						1.40 U	1.40 U	1.40 U
DUP-02-010913	'0-0.5	9/13/2001						0.00520 U	0.00520 U	0.00520 U
DUP-02-010921	'0-1	9/21/2001						0.00630 U	0.00630 U	0.00630 U
DUP-02-010926	'4-6	9/26/2001			0.0100 JN			0.00540 U	0.00540 U	0.00540 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
DUP060807	'0-0	6/8/2007						0.0160 U	0.0520 U	0.0310 U
DUP-1-010828	'0-0.5	8/28/2001						0.00560 U	0.00560 U	0.00560 U
DUP-1-010921	'0-0.5	9/21/2001						0.00680 U	0.00680 U	0.00680 U
DUP110606	'15-17	11/6/2006						0.0320 U	0.0300 U	0.0260 U
DUP112006	'16-18	11/20/2006						0.0790 U	0.0760 U	0.0640 U
DUP112106	'10-12	11/21/2006						0.0860 U	0.0810 U	0.0690 U
DUP-120506	'0-4	12/5/2006						0.0220 U	0.0210 U	0.0180 U
DUP-120606	'0-4	12/6/2006						0.0210 U	0.0200 U	0.0170 U
DUPE071801	'0-0.5	7/18/2001						0.00660 U	0.00660 U	0.00660 U
EC-1	'0-1	8/21/2001						0.00640 U	0.00640 U	0.00640 U
EC-2	'0-1	8/21/2001						0.00850 U	0.00850 U	0.00850 U
EC-3	'0-1	8/21/2001						0.00700 U	0.00700 U	0.00700 U
EC-4	'0-1	8/21/2001						0.00880 U	0.00880 U	0.00880 U
EC-5	'0-1	8/21/2001						0.00510 U	0.00510 U	0.00510 U
EC-6	'0-1	8/21/2001						0.00650 U	0.00650 U	0.00650 U
EC-7	'0-1	8/21/2001						0.00740 U	0.00740 U	0.00740 U
EC-8	'0-1	8/21/2001						0.00670 U	0.00670 U	0.00670 U
EC-9	'0-1	8/21/2001						0.00640 U	0.00640 U	0.00640 U
ESR-1-0-1	'0-0.5	9/4/2001						0.00560 U	0.00560 U	0.00560 U
ESR-1-4-6	'4-6	9/4/2001						0.00570 U	0.00570 U	0.00570 U
HB-101A	'17-17	3/5/2007						0.0250 U	0.0240 U	0.0200 U
HB-102A	'0-0	3/13/2007						0.0710 U	0.0680 U	0.0570 U
HB-102B	'0-0	3/14/2007						0.0280 U	0.0270 UJ	0.0230 U
HB-102C	'0-0	3/14/2007						0.0240 U	0.0230 UJ	0.0190 U
H-B-103A	'17-17	2/20/2007						0.0410 U	0.0390 U	0.0330 U
H-B-104A	'17-17	2/23/2007						0.0300 U	0.0280 U	0.0240 U
H-B-104B	'17-17	2/23/2007						0.0250 U	0.0230 U	0.0200 U
H-B-104C	'17-17	2/23/2007						0.0320 U	0.0310 U	0.0260 U
H-B-104D	'17-17	2/27/2007						0.0270 U	0.0260 U	0.0220 U
H-B-104E	'17-17	2/27/2007						0.0250 U	0.0240 U	0.0200 U
H-B-105C	'17-17	2/8/2007						0.0240 U	0.0230 U	0.0190 U
H-B-105D	'17-17	2/8/2007						0.0280 U	0.0260 U	0.0220 U
H-B-105E	'0-0	2/8/2007						0.0280 U	0.0270 U	0.0230 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
HB-1A	'6.75-6.75	4/18/2002						0.0100 U	0.0100 U	0.0100 U
HB-3A	'5.25-5.25	4/17/2002						1.80 U	1.80 U	1.80 U
HB-3B	'4.5-4.5	4/17/2002						0.00440 U	0.00440 U	0.00440 U
HB-3C	'4.5-4.5	4/18/2002						0.00450 U	0.00450 U	0.00450 U
HB-3D	'4.5-4.5	4/18/2002						0.00670 U	0.00670 U	0.00670 U
HB-4A	'5.33-5.33	4/19/2002		0.00700 JN				0.00510 U	0.00510 U	0.00510 U
HB-5A	'3-3	4/22/2002						0.00510 U	0.00510 U	0.00510 U
HB-7A	'5-5	4/19/2002						0.00600 U	0.00600 U	0.00600 U
HB-8A	'3-3	4/23/2002						0.00680 U	0.00680 U	0.00680 U
HB-8B	'4.83-4.83	4/23/2002						0.00720 U	0.00720 U	0.00720 U
HB-8C	'5.5-5.5	4/23/2002						0.00620 U	0.00620 U	0.00620 U
HB-9A	'4.75-4.75	4/24/2002						0.00560 U	0.00560 U	0.00560 U
HF-B1-0-0.5	'0-0.5	9/10/2001						0.0120 U	0.0120 U	0.0120 U
HF-B1-8-10	'8-10	9/10/2001						0.00400 U	0.00400 U	0.00400 U
HF-B2-0-0.5	'0-0.5	9/4/2001						0.00480 U	0.00480 U	0.00480 U
HF-B2-4-6	'4-6	9/4/2001						0.00600 U	0.00600 U	0.00600 U
HF-B3-0-.5	'0-0.5	10/2/2001						0.00610 U	0.00610 U	0.00610 U
HF-B3-8-10	'8-10	10/2/2001						0.00680 U	0.00680 U	0.00680 U
IB-1-0-2	'0-2	4/8/2002						0.00590 U	0.00590 U	0.00590 U
IB-1-4-6	'4-6	4/8/2002						0.00600 U	0.00600 U	0.00600 U
IB-2-12-14	'12-14	4/8/2002						0.00580 U	0.00580 U	0.00580 U
IB-2-4-6	'4-6	4/8/2002						0.00510 U	0.00510 U	0.00510 U
IB-3-4-6	'4-6	4/8/2002						0.00560 U	0.00560 U	0.00560 U
IB-3-8-10	'8-10	4/8/2002						0.00880 U	0.00880 U	0.00880 U
LB-101-0-1	'0-1	12/6/2006						0.0250 U	0.0230 U	0.0200 U
LB-101-1-3	'1-3	12/6/2006						0.0200 U	0.0190 U	0.0160 U
LB-102-0-1	'0-3	12/6/2006						0.0270 U	0.0250 U	0.0220 U
LB-102-1-3	'3-7	12/6/2006						0.0220 U	0.0210 U	0.0180 U
LB-103-0-1	'0-1	12/6/2006						0.0260 U	0.0250 U	0.0210 U
LB-103-5-7	'5-7	12/6/2006						0.0330 U	0.0310 U	0.0270 U
LHP-101-0-1	'0-1	12/4/2006						0.0300 U	0.0280 U	0.0240 U
LHP-101-5-8	'4-8	12/4/2006						0.0530 U	0.0500 U	0.0430 U
LHP-102-0-1	'0-1	12/5/2006						0.0310 U	0.0290 U	0.0250 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
LHP-102-7-9	'7-9	12/5/2006						0.000610 U	0.000580 U	0.000490 U
LHP-102-7-9	'7-9	12/6/2006						0.0490 U	0.0460 U	0.0390 U
LHP-103-0-1	'0-1	12/5/2006						0.0260 U	0.0250 U	0.0210 U
LHP-103-1-3	'1-3	12/5/2006						0.0290 U	0.0270 U	0.0230 U
LHP-104-0-1	'0-1	12/5/2006						0.0250 U	0.0240 U	0.0200 U
LHP-104-7-9	'4-8	12/5/2006						0.0380 U	0.0360 U	0.0300 U
LHP-105-0-1	'0-1	12/5/2006						0.0230 U	0.0220 U	0.0190 U
LHP-105-1-3	'1-3	12/5/2006						0.0290 U	0.0280 U	0.0230 U
LHP-106-0-1	'0-1	12/4/2006						0.0220 U	0.0210 U	0.0180 U
LHP-106-1-3	'1-3	12/4/2006						0.0320 U	0.0310 U	0.0260 U
LHP-107-0-1	'0-1	12/5/2006						0.0210 U	0.0200 U	0.0170 U
LHP-107-5-7	'4-8	12/5/2006						0.0260 U	0.0250 U	0.0210 U
LHP-108-0-1	'0-1	12/6/2006						0.0270 U	0.0260 U	0.0220 U
LHP-108-3-7	'3-7	12/6/2006						0.0280 U	0.0260 U	0.0220 U
LHP-109-0-1	'0-1	12/6/2006						0.0280 U	0.0260 U	0.0220 U
LHP-109-7-9	'7-9	12/6/2006						0.0440 U	0.0420 U	0.0360 U
LHP-110-0-1	'0-1	12/4/2006						0.0470 U	0.0450 U	0.0380 U
LHP-111-0-1	'0-1	12/4/2006						0.0220 U	0.0210 U	0.0180 U
LHP-112-0-1	'0-1	12/4/2006						0.0230 U	0.0220 U	0.0190 U
LHP-113-0-1	'0-1	12/4/2006						0.0220 U	0.0210 U	0.0180 U
LHP-114-0-1	'0-1	12/4/2006						0.0220 U	0.0210 U	0.0180 U
LHP-115-0-1	'0-1	12/4/2006						0.0210 U	0.0200 U	0.0170 U
LHP-116-0-1	'0-1	12/4/2006						0.0240 U	0.0230 U	0.0190 U
LHP-117-0-1	'0-1	12/4/2006						0.0250 U	0.0240 U	0.0200 U
LHP-118-0-1	'0-1	12/4/2006						0.0320 U	0.0310 U	0.0260 U
LHP-119-0-1	'0-1	12/4/2006						0.0310 U	0.0300 U	0.0250 U
LHP-120-0-1	'0-1	12/4/2006						0.0420 U	0.0400 U	0.0340 U
LHP-121-0-1	'0-1	12/6/2006						0.0310 U	0.0290 U	0.0250 U
LHP-122-0-1	'0-1	12/6/2006						0.0250 U	0.0240 U	0.0200 U
LHP-123-0-1	'0-1	12/4/2006						0.0270 U	0.0260 U	0.0220 U
LHP-124-.5-2	'0.5-2	10/27/2006						0.0350 U	0.0340 U	0.0290 U
LHP-124-2-4	'2-4	10/27/2006						0.0250 U	0.0240 U	0.0200 U
LHP-124-28-30	'28-30	10/31/2006						0.0350 U	0.0330 U	0.0280 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006						0.0280 U	0.0270 U	0.0230 U
LHP-125-10.5-12	'10.5-12	11/1/2006						0.0330 U	0.0310 U	0.0270 U
LHP-125-12-14	'12-14	11/1/2006						0.0260 U	0.0240 U	0.0210 U
LHP-125-4-6	'4-6	10/27/2006						0.0290 U	0.0280 U	0.0240 U
LHP-126-10.5-12	'10.5-12	11/1/2006						0.220 UJ	0.210 UJ	0.180 UJ
LHP-126-14-16	'14-16	11/1/2006						0.0270 U	0.0260 U	0.0220 U
LHP-126-2-4	'2-4	10/26/2006						0.0280 U	0.0270 U	0.0230 U
LHP-126-8-10	'9-10	10/26/2006						0.0420 U	0.0400 U	0.0340 U
LHP-127-0-1	'0-1	12/6/2006						0.0320 U	0.0300 U	0.0260 U
LHP-127-3-5	'3-5	12/6/2006						0.0250 U	0.0240 U	0.0200 U
LHP-128-0-1	'0-4	12/6/2006						0.0210 U	0.0200 U	0.0170 U
LHP-128-7-8	'17-17	12/6/2006						0.0440 U	0.0420 U	0.0360 U
LP-1-0-0.5	'0-0.5	8/27/2001						0.00620 U	0.00620 U	0.00620 U
LP-10-0.5-2	'0.5-2	8/27/2001						0.00510 U	0.00510 U	0.00510 U
LP-10-0-0.5	'0-0.5	8/27/2001						0.00620 U	0.00620 U	0.00620 U
LP-101-11-13	'11-13	11/2/2006						0.0780 U	0.0750 U	0.0630 U
LP-101-14-16	'14-16	11/2/2006						0.0710 U	0.0670 U	0.0570 U
LP-101-26-28	'26-28	11/2/2006						0.0250 U	0.0240 U	0.0200 U
LP-101-50-52	'50-52	11/2/2006						0.0260 U	0.0240 U	0.0210 U
LP-11-0-0.5	'0-0.5	8/27/2001						0.00670 U	0.00670 U	0.00670 U
LP-12-0-0.5	'0-0.5	8/27/2001						0.00720 U	0.00720 U	0.00720 U
LP-12-4-6	'4-6	8/27/2001						0.00580 U	0.00580 U	0.00580 U
LP-13-0-0.5	'0-0.5	8/24/2001						0.00500 U	0.00500 U	0.00500 U
LP-14-0.5-2	'0.5-2	8/24/2001						0.00540 U	0.00540 U	0.00540 U
LP-14-0-0.5	'0-0.5	8/24/2001						0.00640 U	0.00640 U	0.00640 U
LP-15-0-0.5	'0-0.5	8/24/2001						0.00680 U	0.00680 U	0.00680 U
LP-16-0.5-2	'0.5-2	8/27/2001						0.00440 U	0.00440 U	0.00440 U
LP-16-0-0.5	'0-0.5	8/27/2001						0.00730 U	0.00730 U	0.00730 U
LP-2-0.5-2	'0.5-2	8/28/2001						0.00480 U	0.00480 U	0.00480 U
LP-2-0-0.5	'0-0.5	8/28/2001						0.00690 U	0.00690 U	0.00690 U
LP-3-0-0.5	'0-0.5	8/27/2001						0.00570 U	0.00570 U	0.00570 U
LP-4 .5-2	'0.5-2	8/21/2001						0.640 U	0.640 U	0.640 U
LP-4 0-.5	'0-0.5	8/21/2001						0.580 U	0.580 U	0.580 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001						0.00620 U	0.00620 U	0.00620 U
LP-6-0-0.5	'0-0.5	8/27/2001						0.00640 U	0.00640 U	0.00640 U
LP-6-4-6	'4-6	8/27/2001						0.00660 U	0.00660 U	0.00660 U
LP-7-0-0.5	'0-0.5	8/24/2001						0.00500 U	0.00500 U	0.00500 U
LP-8-0-0.5	'0-0.5	8/24/2001						0.00620 U	0.00620 U	0.00620 U
LP-8-10-12	'10-12	8/24/2001						0.0120 U	0.0120 U	0.0120 U
LP-9-0-0.5	'0-0.5	8/24/2001						0.00700 U	0.00700 U	0.00700 U
MW-11D-12-14	'12-14	12/14/2006						0.0880 U	0.0830 U	0.0710 UJ
MW-11D-14-16	'14-16	12/14/2006						0.0310 U	0.0290 U	0.0250 U
MW-11D-16-18	'16-18	12/14/2006						0.0290 U	0.0280 U	0.0240 U
MW-14D-13-15	'13-15	11/14/2006						0.0340 U	0.0320 U	0.0270 U
MW-14D-17-19	'17-19	11/14/2006						0.0270 U	0.0260 U	0.0220 U
MW-16D-13-15	'13-15	11/17/2006						0.0240 U	0.0230 U	0.0200 U
MW-16D-17-19	'17-19	11/20/2006						0.0240 U	0.0230 U	0.0190 U
MW-17D-15-17	'15-17	11/10/2006						0.0320 U	0.0300 U	0.0260 U
MW-17D-17-19	'17-19	11/10/2006						0.0250 U	0.0230 U	0.0200 U
MW-18D-13-15	'13-15	11/13/2006						0.0370 U	0.0350 U	0.0300 U
MW-18D-17-19	'17-19	11/13/2006						0.0250 U	0.0240 U	0.0210 U
MW-20D-12-14	'12-14	11/9/2006						0.0390 U	0.0370 U	0.0320 U
MW-20D-32-34	'32-32.9	11/10/2006						0.0230 U	0.0220 U	0.0190 U
MW-20D-36-38	'36-38	11/10/2006						0.0280 U	0.0260 U	0.0220 U
MW-21D-13-15	'13-13.7	11/16/2006						0.0370 U	0.0350 U	0.0300 U
MW-21D-15-17	'15-17	11/16/2006						0.0260 U	0.0250 U	0.0210 U
MW-23D-15-17	'15-16	11/15/2006						0.0340 U	0.0320 U	0.0280 U
MW-23D-37-39	'37-37.9	11/15/2006						0.0320 U	0.0310 U	0.0260 U
MW-25D-10-12	'10-12	11/21/2006						0.0850 U	0.0810 U	0.0680 U
MW-25D-33-35	'33-35	12/18/2006						0.0310 U	0.0290 U	0.0250 U
MW-26S-8-10	'8-10	10/26/2006						0.0340 U	0.0320 U	0.0270 U
MW-6D-0-2	'0-2	11/8/2006						0.0250 U	0.0240 U	0.0200 U
MW-6D-12-14	'12-14	11/8/2006						0.110 U	0.110 U	0.0900 U
MW-6D-16-18	'16-18	11/20/2006						0.0710 U	0.0670 U	0.0570 U
MW-6D-30-32	'30-32	11/21/2006						0.0330 U	0.0310 U	0.0270 U
PCA-1-0-.5	'0-2	7/17/2001						0.0390 U	0.0390 U	0.0390 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
PCA-1-4-6	'4-6	7/17/2001						0.00700 U	0.00700 U	0.00700 U
PCA-2-0-.5	'0-0.5	7/17/2001						0.00490 U	0.00490 U	0.00490 U
PCA-3-0-0.5	'0-0.5	9/13/2001						0.00600 U	0.00600 U	0.00600 U
PCA-3-4-6	'4-6	9/13/2001						0.0100 U	0.0100 U	0.0100 U
PCA-4-0-0.5	'0-0.5	9/13/2001						0.00560 U	0.00560 U	0.00560 U
PCA-4-4-6	'4-6	9/26/2001						0.00770 U	0.00770 U	0.00770 U
PCA-5-0.5-2	'0.5-2	9/7/2001						0.00430 U	0.00430 U	0.00430 U
PCA-5-0-0.5	'0-0.5	9/7/2001						0.00520 U	0.00520 U	0.00520 U
PCA-6-0-0.5	'0-0.5	9/7/2001						0.00630 U	0.00630 U	0.00630 U
RR-1 0-0.5	'0-0.5	8/22/2001						0.00480 U	0.00480 U	0.00480 U
RR-1 14-16	'14-16	8/22/2001						0.290 U	0.290 U	0.290 U
RR-10 0-.5	'0-0.5	10/12/2001						0.00640 U	0.00640 U	0.00640 U
RR-11 0-.5	'0-0.5	10/12/2001						0.00630 U	0.00630 U	0.00630 U
RR-12 0-.5	'0-0.5	10/12/2001						0.00520 U	0.00520 U	0.00520 U
RR-2-0-0.5	'0-0.5	9/13/2001						0.00500 U	0.00500 U	0.00500 U
RR-2-8-10	'8-10	9/13/2001						0.00730 U	0.00730 U	0.00730 U
RR-3-0-0.5	'0-0.5	9/13/2001						0.00560 U	0.00560 U	0.00560 U
RR-4-0-0.5	'0-0.5	9/10/2001						0.00820 U	0.00820 U	0.00820 U
RR-4-6-8	'6-8	9/13/2001						0.0100 U	0.0100 U	0.0100 U
RR-5-0-0.5	'0-0.5	9/10/2001						0.00720 U	0.00720 U	0.00720 U
RR-6-0-0.5	'0-0.5	9/10/2001						0.00630 U	0.00630 U	0.00630 U
RR-6-8-10	'8-10	9/10/2001						0.00400 U	0.00400 U	0.00400 U
RR-7-0-0.5	'0-0.5	9/10/2001						0.00510 U	0.00510 U	0.00510 U
RR-8-0-0.5	'0-0.5	9/26/2001						0.00740 U	0.00740 U	0.00740 U
RR-8-6-8	'6-8	9/26/2001						0.0240 U	0.0240 U	0.0240 U
RR-9 0-.5	'0-0.5	10/12/2001						0.00660 U	0.00660 U	0.00660 U
SC-1	'0-1	8/21/2001						0.00760 U	0.00760 U	0.00760 U
SC-2	'0-1	8/22/2001						0.00660 U	0.00660 U	0.00660 U
SC-3	'0-1	8/22/2001						0.00690 U	0.00690 U	0.00690 U
SILO-B1-0-0.5	'0-0.5	9/6/2001						0.00530 U	0.00530 U	0.00530 U
SILO-B1-6-8	'6-8	9/6/2001						0.0210 U	0.0210 U	0.0210 U
SILO-B2-0-0.5	'0-0.5	9/6/2001						0.00520 U	0.00520 U	0.00520 U
SILO-B3-0-0.5	'0-0.5	9/6/2001						0.00500 U	0.00500 U	0.00500 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
SILO-B3-6-8	'6-8	9/6/2001						0.00480 U	0.00480 U	0.00480 U
SILO-B4-0-0.5	'0-0.5	9/6/2001						0.00800 U	0.00800 U	0.00800 U
SPR-1-0-0.5	'0-0.5	9/5/2001						0.00570 U	0.00570 U	0.00570 U
SPR-1-8-10	'8-10	9/5/2001						0.0120 U	0.0120 U	0.0120 U
SPR-2A-0-0.5	'0-0.5	7/19/2001						0.00900 U	0.00900 U	0.00900 U
SPR-2A-8-10	'8-10	7/19/2001	1.40 JN					0.980 U	0.980 U	0.980 U
SPR-2B-0-0.5	'0-0.5	7/19/2001						0.0120 U	0.0120 U	0.0120 U
SPR-2B-10-12	'10-12	7/19/2001	2.30 JN					1.10 U	1.10 U	1.10 U
SPR-3 0-.5	'0-0.5	8/21/2001						0.430 U	0.430 U	0.430 U
SPR-3 4-6	'4-6	8/21/2001						0.540 U	0.540 U	0.540 U
SPR-4A-0-0.5	'0-0.5	7/19/2001						0.00500 U	0.00500 U	0.00500 U
SPR-4A-8-10	'8-10	7/19/2001						1.10 U	1.10 U	1.10 U
SPR-4B-0-0.5	'0-0.5	8/22/2001						0.00660 U	0.00660 U	0.00660 U
SPR-4B-4-6	'4-6	8/23/2001						0.00770 U	0.00770 U	0.00770 U
SPR-4C-0-0.5	'0-0.5	8/23/2001						0.00580 U	0.00580 U	0.00580 U
SPR-4C-4-6	'4-6	8/23/2001						0.360 U	0.360 U	0.360 U
SPR-5-0-0.5	'0-0.5	9/5/2001						0.00600 U	0.00600 U	0.00600 U
SPR-5-2-4	'2-4	9/5/2001						0.00820 U	0.00820 U	0.00820 U
SPR-6-0.5-2	'0.5-2	9/13/2001						0.00580 U	0.00580 U	0.00580 U
SPR-6-0-0.5	'0-0.5	9/13/2001						0.00530 U	0.00530 U	0.00530 U
SR-1-0-.5	'0-0.5	7/17/2001						0.00580 U	0.00580 U	0.00580 U
SR-2-0-.5	'0-0.5	7/17/2001						0.00670 U	0.00670 U	0.00670 U
ST-1-0-0.5	'0-0.5	9/5/2001						0.00500 U	0.00500 U	0.00500 U
ST-2-0-0.5	'0-0.5	9/5/2001						0.00480 U	0.00480 U	0.00480 U
ST-3-0-0.5	'0-0.5	9/4/2001						0.00590 U	0.00590 U	0.00590 U
ST-3-4-6	'4-6	9/4/2001						0.00770 U	0.00770 U	0.00770 U
TES-1-0-1	'0-1	12/5/2006						0.0320 U	0.0310 U	0.0260 U
TES-2-0-1	'0-1	12/4/2006						0.0370 U	0.0350 U	0.0300 U
TES-3-0-1	'0-1	12/4/2006						0.0320 U	0.0300 U	0.0260 U
TES-4-0-1	'0-1	12/5/2006						0.0380 U	0.0360 U	0.0300 U
TLN-1 .5-2	'0.5-2	8/20/2001						0.00590 U	0.00590 U	0.00590 U
TLN-1 0-.5	'0-0.5	8/20/2001						0.00560 U	0.00560 U	0.00560 U
TLN-2-0-0.5	'0-0.5	7/19/2001						0.00760 U	0.00760 U	0.00760 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001			0.130 JN	0.100 JN		0.00580 U	0.00580 U	0.00580 U
TLN-3-2-4	'2-4	7/17/2001						0.00500 U	0.00500 U	0.00500 U
TLN-4 0-.5	'0-0.5	8/20/2001						0.00540 U	0.00540 U	0.00540 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001						0.00480 U	0.00480 U	0.00480 U
TLN-5 .5-2	'0.5-2	8/20/2001						0.0120 U	0.0120 U	0.0120 U
TLN-5 0-.5	'0-0.5	8/20/2001						0.00660 U	0.00660 U	0.00660 U
TLN-5-4-6	'4-6	8/30/2001						0.00510 U	0.00510 U	0.00510 U
TLN-6 0-.5	'0-0.5	8/20/2001						0.00480 U	0.00480 U	0.00480 U
TLS-10 0-.5	'0-0.5	8/21/2001						0.520 U	0.520 U	0.520 U
TLS-10 8-10	'8-10	8/21/2001						0.620 U	0.620 U	0.620 U
TLS-1-0-0.5	'0-0.5	9/5/2001						0.0120 U	0.0120 U	0.0120 U
TLS-11-0-0.5	'0-0.5	9/7/2001						0.00700 U	0.00700 U	0.00700 U
TLS-2-0-0.5	'0-0.5	9/7/2001						0.00520 U	0.00520 U	0.00520 U
TLS-2-6-8	'6-8	9/7/2001						0.0180 U	0.0180 U	0.0180 U
TLS-3 0-.5	'0-0.5	8/21/2001						0.460 U	0.460 U	0.460 U
TLS-4-0-0.5	'0-0.5	9/7/2001						0.00520 U	0.00520 U	0.00520 U
TLS-4-8-10	'8-10	9/7/2001						0.0100 U	0.0100 U	0.0100 U
TLS-5 0-0.5	'0-0.5	8/21/2001						0.00530 U	0.00530 U	0.00530 U
TLS-5-8-10	'8-10	9/26/2001						0.00980 U	0.00980 U	0.00980 U
TLS-6 0-.5	'0-0.5	8/21/2001						0.470 U	0.470 U	0.470 U
TLS-6-3-5	'3-5	9/26/2001						0.00530 U	0.00530 U	0.00530 U
TLS-7 0-.5	'0-0.5	8/21/2001						0.550 U	0.550 U	0.550 U
TLS-8-0-0.5	'0-0.5	9/7/2001						0.00570 U	0.00570 U	0.00570 U
TLS-8-6-8	'6-8	9/7/2001						0.0110 U	0.0110 U	0.0110 U
TLS-9 0-.5	'0-0.5	8/21/2001						0.450 U	0.450 U	0.450 U
TP-105	'0-0	6/8/2007						0.0180 U	0.0590 U	0.0350 U
TP-105A	'0-0	6/8/2007						0.0150 U	0.0500 U	0.0300 U
TP-106-A	'0-0	6/8/2007						0.0180 U	0.0600 U	0.0360 U
TP-106-B	'0-0	6/8/2007						0.0120 U	0.0390 U	0.0230 U
WWT-1-0-0.5	'0-0.5	7/19/2001						0.00740 U	0.00740 U	0.00740 U
WWT-101-15-17	'15-17	11/6/2006						0.0310 U	0.0290 U	0.0250 U
WWT-101-21-23	'21-23	11/6/2006						0.0260 U	0.0250 U	0.0210 U
WWT-1-12-14	'12-14	8/23/2001						0.00640 U	0.00640 U	0.00640 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene-acetaldehyde mg/kg	Benzofuran mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,3,3-Trimet mg/kg	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet mg/kg	Bornyl Chloride mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromo-methane mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001						0.00580 U	0.00580 U	0.00580 U
WWT-2-12-14	'12-14	8/23/2001						0.00920 U	0.00920 U	0.00920 U
WWT-3-0-0.5	'0-0.5	8/23/2001						0.00640 U	0.00640 U	0.00640 U
WWT-3-12-14	'12-14	8/23/2001						0.00520 U	0.00520 U	0.00520 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
SRS				110000	2	7400	7		1100	2	11	500
12K-B1-0.5-2	'0.5-2	9/6/2001	1.00 JNB	0.00480 U	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.00480 U	0.00480 U	6.54
12K-B1-0-0.5	'0-0.5	9/6/2001	1.20 JNB	0.00540 U	0.00540 U	0.00540 U	0.00540 U		0.00540 U	0.00540 U	0.00540 U	1.28
12K-B2-0.5-2	'0.5-2	9/6/2001	0.240 JNB	0.00460 U	0.00460 U	0.00460 U	0.00460 U		0.00460 U	0.00460 U	0.00460 U	0.0337
12K-B2-0-0.5	'0-0.5	9/6/2001	0.260 JNB	0.00450 J	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.107
150K-1-0.5-2	'0.5-2	9/10/2001	0.780 JNB	0.00570	0.00420 U	0.00420 U	0.00420 U		0.00420 U	0.00420 U	0.00420 U	0.00420 U
150K-1-0-0.5	'0-0.5	9/10/2001	1.40 JNB	0.00310 J	0.00450 U	0.00450 U	0.00450 U		0.00450 U	0.00450 U	0.00450 U	0.00450 U
230-B1-0.5	'0-0.5	10/2/2001		0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00650 JN	0.00540 U	0.00110 J	0.00540 U	0.00540 U
230-B10-0-0.5	'0-0.5	8/30/2001		0.0371	0.0310 U	0.0310 U	0.0310 U		0.0310 U	0.0310 U	0.0310 U	0.0310 U
230-B10-1.5-2	'1.5-2	8/30/2001	2.30 JNB	0.00650 J	0.00650 U	0.00650 U	0.00650 U		0.00650 U	0.00650 U	0.00650 U	0.00650 U
230-B11-0-0.5	'0-0.5	8/30/2001		0.00540 U	0.00540 U	0.00540 U	0.00540 U		0.00540 U	0.00540 U	0.00540 U	0.0896
230-B11-1.5-2	'1.5-2	8/30/2001	1.20 JNB	0.00660 U	0.00660 U	0.00660 U	0.00660 U		0.00660 U	0.00660 U	0.00660 U	0.00660 U
230-B1-4-6	'4-6	10/2/2001	4.00 JNB	3.00 U	3.00 U	3.00 U	3.00 U		3.00 U	3.00 U	3.00 U	3.00 U
230-B2-0-0.5	'0-0.5	8/30/2001	1.70 JNB	0.00540 U	0.00540 U	0.00540 U	0.00540 U		0.00540 U	0.0113	0.00540 U	0.00540 U
230-B2-1.5-2	'1.5-2	8/30/2001	1.40 JNB	0.00870	0.00440 U	0.0162	0.00440 U		0.00440 U	0.00440 U	0.00440 U	0.00440 U
230-B3-0-0.5	'0-0.5	8/30/2001		0.0647	0.00700 U	0.00700 U	0.00700 U		0.00700 U	0.00700 U	0.00700 U	0.00700 U
230-B3-1.5-2	'1.5-2	8/30/2001		0.0116	0.00480 U	0.00510	0.00480 U		0.00480 U	0.00480 U	0.00480 U	0.00480 U
230-B4-0-0.5	'0-0.5	8/30/2001		0.00730	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.00500 U
230-B4-1.5-2	'1.5-2	8/30/2001	0.520 JNB	0.00580 U	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
230-B5-0-0.5	'0-0.5	9/13/2001		0.00270 J	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
230-B5-1.5-2	'1.5-2	9/13/2001	1.00 JNB	0.00540 J	0.00610 U	0.00610 U	0.00610 U		0.00610 U	0.00610 U	0.00610 U	4.42
230-B6 0-0.5	'0-0.5	8/22/2001	0.400 JNB	0.00500 U	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.00500 U
230-B6 1.5-2	'1.5-2	8/22/2001	1.60 JNB	0.00490 U	0.00490 U	0.00490 U	0.00490 U		0.00490 U	0.00490 U	0.00490 U	0.00490 U
230-B7 0-0.5	'0-0.5	8/22/2001	0.490 JNB	0.00760 U	0.00760 U	0.00760 U	0.00760 U		0.00760 U	0.00760 U	0.00760 U	0.00760 U
230-B7 1.5-2	'1.5-2	8/22/2001	0.160 JNB	0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
230-B8 1.5-2	'1.5-2	8/22/2001	0.520 JNB	0.00640 U	0.00640 U	0.00640 U	0.00640 U		0.00640 U	0.00640 U	0.00640 U	0.00640 U
230-B9 0-0.5	'0-0.5	8/22/2001	0.820 JNB	0.00560 U	0.00560 U	0.00560 U	0.00560 U		0.00560 U	0.00560 U	0.00560 U	0.00560 U
230-B9 0-0.5	'0-0.5	8/22/2001	1.30 JNB	0.00510 U	0.00510 U	0.00510 U	0.00510 U		0.00510 U	0.00510 U	0.00510 U	0.00510 U
230-B9 1.5-2	'1.5-2	8/22/2001	0.840 JNB	0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
231-B1-0-0.5	'0-0.5	10/5/2001		0.00620 U	0.00620 U	0.000880 J	0.00620 U		0.00620 U	0.00240 J	0.00620 U	0.00620 U
231-B10-0-0.5	'0-0.5	9/17/2001		0.00960 U	0.00960 U	0.00960 U	0.00960 U	0.0110 JN	0.00960 U	0.00960 U	0.00960 U	0.00960 U
231-B11-0-0.5	'0-0.5	9/19/2001	0.220 JNB	0.00600 U	0.00600 U	0.00600 U	0.00600 U		0.00600 U	0.00600 U	0.00600 U	0.00600 U
231-B11-8-10	'8-10	9/19/2001	15.0 JNB	0.0216	0.00920 U	0.00920 U	0.00920 U		0.00920 U	0.00920 U	0.00920 U	0.00920 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001	18.0 JNB	0.00700 U	0.00700 U	0.00700 U	0.00700 U		0.00700 U	0.00700 U	0.00700 U	0.00700 U
231-B13-0-0.5	'0-0.5	9/19/2001	1.10 JNB	0.0140 U	0.0140 U	0.0140 U	0.0140 U		0.0140 U	0.0140 U	0.0140 U	0.0150
231-B13-8-10	'9-10	9/27/2001	12.0 JNB	12.0 U	12.0 U	12.0 U	12.0 U		12.0 U	12.0 U	12.0 U	12.0 U
231-B14-0-0.5	'0-0.5	9/19/2001	2.60 JNB	0.00890	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
231-B2-0.5-2	'0.5-2	8/22/2001		0.00560 U	0.00560 U	0.0175	0.00560 U		0.00560 U	0.00560 U	0.00560 U	0.00560 U
231-B2-0-0.5	'0-0.5	8/22/2001		0.00580 U	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
231-B3-0-0.5	'0-0.5	8/22/2001	1.60 JNB	0.00580 U	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
231-B4-0-0.5	'0-0.5	8/30/2001		0.00870 U	0.00870 U	0.00870 U	0.00870 U		0.00870 U	0.00870 U	0.00870 U	0.00870 U
231-B4-6-8	'6-8	9/27/2001	11.0 JNB	0.0267	0.00520 U	4.04	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
231-B5-0.5-2	'0.5-2	9/19/2001		0.00380 J	0.00540 U	0.00250 J	0.00540 U		0.00540 U	0.00540 U	0.00540 U	0.00120 J
231-B6-0-0.5	'0-0.5	9/27/2001	0.240 JNB	0.0162	0.00540 U	0.00610	0.00540 U		0.00540 U	0.0490	0.00540 U	0.00540 U
231-B6-4-6	'4-6	9/27/2001	12.0 JNB	0.0140 U	0.0140 U	0.0140 U	0.0140 U		0.0140 U	0.0140 U	0.0140 U	0.0140 U
231-B7-0-0.5	'0-0.5	9/13/2001	17.0 JNB	0.00810	0.0164	0.00570 U	0.00570 U		0.00570 U	0.0625	0.00570 U	0.00570 U
231-B8-0-0.5	'0-0.5	9/27/2001	0.970 JNB	0.0270 UJ	0.0270 UJ	0.0270 UJ	0.0270 UJ		0.0270 UJ	0.0270 UJ	0.0270 UJ	0.0270 UJ
231-B8-8-10	'8-10	9/27/2001	5.40 JNB	5.40	4.80 U	74.4	4.80 U		4.80 U	44.6	4.80 U	4.80 U
231-B9-0.5-2	'0.5-2	9/27/2001	2.00 JNB	0.00890	0.00860 U	0.00340 J	0.00860 U		0.00860 U	0.00860 U	0.00860 U	0.00580 J
231-B9-0-0.5	'0-0.5	9/27/2001	0.640 JN	0.00800 U	0.00800 U	0.00800 U	0.00800 U		0.00800 U	0.00800 U	0.00800 U	0.00800 U
240-1-0-0.5	'0-0.5	9/26/2001	8.60 JNB	0.0169	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
240-1-8-10	'8-10	10/1/2001	0.390 JNB	0.00600 U	0.00600 U	0.00600 U	0.00600 U		0.00600 U	0.00600 U	0.00600 U	0.00600 U
5K-B1-0-0.5	'0-0.5	10/1/2001	0.360 JNB	0.0163	0.00540 U	0.00540 U	0.00540 U		0.00540 U	0.00540 U	0.00540 U	0.00540 U
5K-B2-0-0.5	'0-0.5	8/31/2001		0.00710 U	0.00710 U	0.00710 U	0.00710 U		0.00710 U	0.00710 U	0.00710 U	0.00710 U
5K-B2-8-10	'8-10	8/31/2001	0.330 JNB	0.0230	0.00480 U	0.00490	0.00480 U		0.00480 U	0.00480 U	0.00480 U	0.00480 U
5K-B3-0-0.5	'0-0.5	9/26/2001		0.00460 J	0.00570 U	0.00570 U	0.00570 U		0.00570 U	0.00180 J	0.00570 U	0.00570 U
5K-B4-0-0.5	'0-0.5	10/1/2001	13.0 JNB	0.00650 U	0.00650 U	0.00650 U	0.00650 U		0.00650 U	0.00650 U	0.00650 U	0.00650 U
5K-B4-4-6	'4-6	10/1/2001	1.60 JNB	0.310 U	0.310 U	3.10	0.310 U		0.310 U	0.310 U	0.310 U	0.310 U
5K-B5-0-0.5	'0-0.5	8/31/2001		0.00530 J	0.00550 U	0.0184	0.00550 U		0.00550 U	0.00550 U	0.00550 U	0.00550 U
5K-B5-4-6	'4-6	9/26/2001	6.90 JNB	0.00990	0.00510 U	0.0726	0.00510 U		0.00510 U	0.00510 U	0.00510 U	0.00510 U
AB-1-0-0.5	'0-0.5	9/4/2001	2.70 JNB	0.0210 U	0.0210 U	0.0210 U	0.0210 U		0.0210 U	0.0210 U	0.0210 U	0.0210 U
AB-2-0.5-2	'0.5-2	9/4/2001		0.00760 U	0.00760 U	0.00760 U	0.00760 U		0.00760 U	0.0186	0.00760 U	0.00760 U
AB-2-0-0.5	'0-0.5	9/4/2001		0.00500 U	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.00500 U
ADN-1-0-0.5	'0-0.5	9/5/2001	1.10 JNB	0.00470 U	0.00470 U	0.00840	0.00470 U		0.00470 U	0.00470 U	0.00470 U	0.00470 U
ADN-1-8-10	'8-10	9/5/2001	2.00 JN	0.880 U	0.880 U	9.27	0.880 U		0.880 U	0.880 U	0.880 U	0.880 U
ADN-2-0-0.5	'0-0.5	9/5/2001	0.520 JNB	0.00480 U	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.00480 U	0.00480 U	0.00480 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
ADN-2-10-11	'10-11	9/27/2001	0.0840 JNB	0.00520 U	0.00520 U	0.219	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
ADS-1-0-.5	'0-0.5	7/17/2001		0.00760 U	0.00760 U	0.00760 U	0.00760 U		0.00760 U	0.00760 U	0.00760 U	0.00760 U
ADS-10-0-0.5	'0-2	7/18/2001		0.00590 U	0.00590 U	0.00590 U	0.00590 U		0.00590 U	0.00590 U	0.00590 U	0.00590 U
ADS-101-0-1	'0-1	12/5/2006		0.0320 U	0.0550 U	0.0274 J	0.0320 U		0.100 U	0.328	0.0270 U	0.0390 U
ADS-101-1-3	'1-3	12/5/2006		0.0260 U	0.0440 U	0.0200 U	0.0260 U		0.0810 U	0.0270 U	0.0210 U	0.0310 U
ADS-102-0-1.5	'0-2	12/5/2006		0.0270 U	0.0470 U	0.0210 U	0.0270 U		0.0860 U	0.0290 U	0.0230 U	0.0330 U
ADS-102-7-8	'4-8	12/6/2006		0.0320 U	0.0550 U	0.0297 J	0.0320 U		0.100 U	0.0340 U	0.0270 U	0.0390 U
ADS-10-4-6	'4-6	7/18/2001		0.00610 J	0.0120 U	0.0120 U	0.0120 U		0.0120 U	0.0120 U	0.0120 U	0.0120 U
ADS-11-0-0.5	'0-2	7/18/2001		0.00620 U	0.00620 U	0.00620 U	0.00620 U		0.00620 U	0.00620 U	0.00620 U	0.00620 U
ADS-12-0.5-2	'0.5-2	7/18/2001		0.00560 U	0.00560 U	0.00560 U	0.00560 U		0.00560 U	0.00560 U	0.00230 J	0.00560 U
ADS-12-0-0.5	'0-0.5	7/18/2001		0.00820 U	0.00820 U	0.00820 U	0.00820 U		0.00820 U	0.00820 U	0.00820 U	0.00820 U
ADS-2-0-0.5	'0-0.5	7/18/2001		0.00610 U	0.00610 U	0.00610 U	0.00610 U		0.00610 U	0.00910	0.00610 U	0.00610 U
ADS-2-4-6	'4-6	7/18/2001		0.00490 U	0.00490 U	0.00490 U	0.00490 U		0.00490 U	0.00490 U	0.00490 U	0.00490 U
ADS-3-0-0.5	'0-0.5	7/18/2001		0.00570 U	0.00570 U	0.00570 U	0.00570 U		0.00570 U	0.00570 U	0.00570 U	0.00570 U
ADS-4-0-0.5	'0-2	7/18/2001		0.00600 U	0.00600 U	0.00600 U	0.00600 U		0.00600 U	0.00600 U	0.00600 U	0.00600 U
ADS-4-12-14	'12-14	7/18/2001		0.00880 U	0.00880 U	0.147	0.00880 U		0.00880 U	0.00880 U	0.00880 U	0.00880 U
ADS-5-0-0.5	'0-0.5	7/18/2001		0.00530 U	0.00530 U	0.00530 U	0.00530 U		0.00530 U	0.00530 U	0.00530 U	0.00530 U
ADS-5-4-6	'4-6	9/27/2001	0.530 JNB	0.00500 U	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.00500 U
ADS-6-0.5-2	'0.5-2	7/18/2001		0.00350 J	0.00560 U	0.00670	0.00560 U		0.00560 U	0.00170 J	0.00560 U	0.0112
ADS-6-0-0.5	'0-0.5	7/18/2001		0.00230 J	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.00430 J	0.00480 U	0.00480 U
ADS-7-0-.5	'0-0.5	7/17/2001		0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.000920 J	0.00520 U	0.00190 J
ADS-8-0-0.5	'0-0.5	7/18/2001		0.00960 U	0.00960 U	0.00960 U	0.00960 U		0.00960 U	0.00440 J	0.00960 U	0.00960 U
ADS-8-4-6	'4-6	7/18/2001		0.00910 U	0.00910 U	0.00910 U	0.00910 U		0.00910 U	0.0140	0.00910 U	0.00910 U
ADS-9-0-0.5	'0-0.5	7/18/2001		0.00930 U	0.00930 U	0.00930 U	0.00930 U		0.00930 U	0.00330 J	0.00930 U	0.00930 U
BLIND DUP	'0-0	8/21/2001	0.550 JNB	0.00770	0.00620 U	0.00620 U	0.00620 U		0.00620 U	0.00620 U	0.00620 U	0.00620 U
BSL-10-0-1	'0-1	9/21/2001		0.00700	0.00700 U	0.00700 U	0.00700 U		0.00700 U	0.00360 J	0.00700 U	0.00700 U
BSL-1-0-1	'0-1	9/20/2001		0.00580 U	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.00120 J	0.00580 U	0.00580 U
BSL-11-0-1	'0-1	9/26/2001	0.580 JNB	0.00580 U	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
BSL-12-0-1	'0-1	9/26/2001	0.350 JNB	0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
BSL-1-4-6	'4-6	9/20/2001		0.00440 J	0.00720 U	0.00720 U	0.00720 U		0.00720 U	0.00720 U	0.00720 U	0.00720 U
BSL-2-0-1	'0-1	9/21/2001		0.0192	0.00760 U	0.00760 U	0.00760 U		0.00760 U	0.00760 U	0.00760 U	0.00760 U
BSL-3-0-0.5	'0-0.5	9/20/2001		0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
BSL-4-0-1	'0-0.5	9/21/2001		0.00480 J	0.00720 U	0.00720 U	0.00720 U		0.00720 U	0.00720 U	0.00720 U	0.00720 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
BSL-4-4-6	'4-6	9/21/2001		0.00690 J	0.0120 U	0.0120 U	0.0120 U		0.0120 U	0.0120 U	0.0120 U	0.0120 U
BSL-5-0-.5	'0-0.5	9/21/2001		0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
BSL-6-0-1	'0-1	9/26/2001	0.400 JNB	0.0100	0.00720 U	0.00720 U	0.00720 U		0.00720 U	0.00720 U	0.00720 U	0.00720 U
BSL-6-1-2	'1-2	9/26/2001	20.0 JNB	0.0187	0.0180 U	0.0180 U	0.0180 U		0.0180 U	0.0180 U	0.0180 U	0.0180 U
BSL-7-0-.5	'0-0.5	9/21/2001		0.00200 J	0.00640 U	0.00640 U	0.00640 U		0.00640 U	0.00640 U	0.00640 U	0.00640 U
BSL-8-0-1	'0-1	9/26/2001	1.00 JNB	0.0434	0.00940 U	0.00940 U	0.00940 U		0.00940 U	0.00940 U	0.00940 U	0.00940 U
BSL-9-.5-2	'0.5-2	9/21/2001		0.364	0.0100 U	0.0100 U	0.0100 U		0.0100 U	0.00600 J	0.0100 U	0.0100 U
BSL-9-0-.5	'0-0.5	9/21/2001		0.00570 U	0.00570 U	0.00570 U	0.00570 U		0.00570 U	0.00570 U	0.00570 U	0.00570 U
BT-B1-0-0.5	'0-0.5	9/18/2001		0.00560 U	0.00560 U	0.00560 U	0.00560 U		0.00560 U	0.00160 J	0.00560 U	0.00560 U
BT-B2-0.5-2	'0.5-2	9/18/2001		0.00420 U	0.00420 U	0.00420 U	0.00420 U		0.00420 U	0.000930 J	0.00420 U	0.00420 U
BT-B2-0-0.5	'0-0.5	9/18/2001		0.00460 U	0.00460 U	0.00460 U	0.00460 U		0.00460 U	0.00340 J	0.00460 U	0.00460 U
BT-B3-0-0.5	'0-0.5	9/18/2001		0.00580 U	0.00580 U	0.00580 U	0.00580 U	0.00650 JN	0.00580 U	0.00580 U	0.00580 U	0.00580 U
BT-B4-0.5-2	'0.5-2	8/30/2001	1.10 JNB	0.00490 U	0.00490 U	0.00490 U	0.00490 U		0.00490 U	0.00490 U	0.00490 U	0.00490 U
BT-B4-0-0.5	'0-0.5	8/30/2001		0.00660 U	0.00660 U	0.00660 U	0.00660 U		0.00660 U	0.00660 U	0.00660 U	0.00660 U
BT-B5-0-.5	'0-0.5	10/2/2001		0.00540 U	0.00540 U	0.00540 U	0.00540 U		0.00540 U	0.00220 J	0.00540 U	0.00540 U
BT-B6-0.5-2	'0.5-2	9/17/2001	16.0 JNB	0.00950 U	0.00950 U	0.00950 U	0.00950 U		0.00950 U	0.0123	0.00950 U	0.00950 U
BT-B6-0-0.5	'0-0.5	9/17/2001	3.40 JNB	0.00700 U	0.00700 U	0.00700 U	0.00700 U		0.00700 U	0.00700 U	0.00700 U	0.00700 U
CF-1-0-0.5	'0-0.5	8/31/2001	4.20 JNB	0.00300 J	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.00480 U	0.00480 U	0.00480 U
CF-1-2-4	'2-4	8/31/2001	0.830 JNB	0.0352	0.00800 U	0.0159	0.00800 U		0.00800 U	0.0383	0.0145	0.00800 U
CF-2-0-0.5	'0-0.5	8/28/2001		0.00650 U	0.00650 U	0.00650 U	0.00650 U		0.00650 U	0.00650 U	0.00650 U	0.00650 U
CF-3-0.5-2	'0.5-2	8/28/2001	0.530 JNB	0.469	0.0120 U	0.0120 U	0.0120 U		0.0120 U	0.0120 U	0.0120 U	0.0120 U
CF-3-0-0.5	'0-0.5	8/28/2001	1.90 JNB	0.00900 U	0.00900 U	0.00900 U	0.00900 U		0.00900 U	0.00900 U	0.00900 U	0.00900 U
CF-4-0-0.5	'0-0.5	8/28/2001	0.180 JNB	0.00640 U	0.00640 U	0.00640 U	0.00640 U		0.00640 U	0.00640 U	0.00640 U	0.00640 U
CF-5-0-0.5	'0-0.5	8/28/2001	1.00 JNB	0.00570 U	0.00570 U	0.00570 U	0.00570 U		0.00570 U	0.00570 U	0.00570 U	0.00570 U
CF-5-4-6	'4-6	8/28/2001	0.460 JNB	0.00500 U	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.00500 U
CF-6-0-0.5	'0-0.5	8/28/2001	1.70 JNB	0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
CF-7-0-0.5	'0-0.5	8/28/2001	2.30 JNB	0.00460 J	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
CF-7-4-6	'4-6	8/28/2001	0.530 JNB	0.00600 U	0.00600 U	0.00600 U	0.00600 U		0.00600 U	0.00600 U	0.00600 U	0.00600 U
CF-8-0-0.5	'0-0.5	8/28/2001	0.180 JNB	0.00540 U	0.00540 U	0.00540 U	0.00540 U		0.00540 U	0.00540 U	0.00540 U	0.00540 U
CF-9-0.5-2	'0.5-2	8/31/2001	0.630 JNB	0.00710 U	0.00710 U	0.00710 U	0.00710 U		0.00710 U	0.00710 U	0.00710 U	0.00710 U
CF-9-0-0.5	'0-0.5	8/31/2001	0.860 JNB	0.00480 U	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.00480 U	0.00480 U	0.00480 U
DC-B12-0-0.5	'0-0.5	10/3/2001		0.00980 U	0.00980 U	0.00670 J	0.00980 U		0.00980 U	0.00980 U	0.00980 U	0.00980 U
DC-B12-2-4	'2-4	10/3/2001		0.00390 J	0.00680 U	1.72	0.00680 U		0.00680 U	0.00660 J	0.00680 U	0.00680 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001		0.00480 U	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.00190 J	0.00480 U	0.00480 U
DC-SS11-0-0.5	'0-0.5	9/17/2001		0.00430 U	0.00430 U	0.000750 J	0.00430 U		0.00430 U	0.00430 U	0.00430 U	0.00430 U
DC-SS13-0-0.5	'0-0.5	9/17/2001		0.00850 U	0.00850 U	0.00850 U	0.00850 U		0.00850 U	0.00850 U	0.00850 U	0.00850 U
DC-SS15-0-0.5	'0-0.5	9/17/2001		0.00600 U	0.00600 U	0.00600 U	0.00600 U		0.00600 U	0.00600 U	0.00600 U	0.00600 U
DC-SS17-0-0.5	'0-0.5	9/17/2001	8.50 JNB	0.00550 J	0.00550 U	0.00550 U	0.00550 U		0.00550 U	0.00550 U	0.00550 U	0.00550 U
DC-SS2-0-0.5	'0-0.5	9/17/2001		0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00180 J	0.00520 U	0.00520 U
DC-SS3-0-0.5	'0-0.5	9/17/2001		0.00590 J	0.00590 U	0.00590 U	0.00590 U		0.00590 U	0.00210 J	0.00590 U	0.00590 U
DC-SS6-0-0.5	'0-0.5	9/17/2001		0.00780 J	0.00780 U	0.00780 U	0.00780 U		0.00780 U	0.00430 J	0.00780 U	0.00780 U
DC-SS7-0-0.5	'0-0.5	9/17/2001		0.00640 U	0.00640 U	0.00640 U	0.00640 U		0.00640 U	0.00100 J	0.00640 U	0.00640 U
DC-SS9-0-0.5	'0-0.5	9/17/2001		0.00470 U	0.00470 U	0.00510	0.00470 U		0.00470 U	0.00470 U	0.00470 U	0.00470 U
DSP-1-0-0.5	'0-0.5	10/3/2001		0.00720 U	0.00720 U	0.00720 U	0.00720 U		0.00720 U	0.00100 J	0.00720 U	0.00720 U
DSP-1-4-6	'4-6	11/19/2001	1.20 JNB	0.0114	0.00620 U	0.00620 U	0.00620 U		0.00620 U	0.00620 U	0.00620 U	0.00620 U
DSP-2-0-0.5	'0-0.5	9/4/2001	6.30 JNB	0.00580 U	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
DSP-3-0-0.5	'0-0.5	9/4/2001	0.180 JNB	0.00560 U	0.00560 U	0.00560 U	0.00560 U		0.00560 U	0.00560 U	0.00560 U	0.00560 U
DSP-3-2-4	'2-4	9/4/2001	0.930 JNB	0.00500 U	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.00500 U
DSP-4-0-0.5	'0-0.5	9/4/2001	2.50 JNB	0.00560 U	0.00560 U	0.00560 U	0.00560 U		0.00560 U	0.00560 U	0.00560 U	0.00560 U
DSP-4-4-6	'4-6	9/26/2001	0.650 JNB	0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
DUP-01-010824	'0-0.5	8/24/2001	0.430 JNB	0.00630 U	0.00630 U	0.00630 U	0.00630 U		0.00630 U	0.00630 U	0.00630 U	0.00630 U
DUP-01-010831	'2-4	8/31/2001	8.00 JNB	0.00880 U	0.00880 U	0.00880 U	0.00880 U		0.00880 U	0.00880 U	0.00880 U	0.00880 U
DUP-01-010904	'0-0.5	9/4/2001	1.20 JNB	0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
DUP-01-010905	'8-10	9/5/2001	0.140 JNB	0.00530 U	0.00530 U	3.87	0.00530 U		0.00530 U	0.0305	0.00530 U	0.00530 U
DUP-01-010906	'0-8	9/6/2001	1.60 JNB	0.0506	0.00880 U	0.147	0.00880 U		0.00880 U	0.00880 U	0.00880 U	0.00880 U
DUP-01-010913	'0-0.5	9/13/2001	1.40 JNB	0.00910 U	0.00910 U	0.00910 U	0.00910 U		0.00910 U	0.00230 J	0.00910 U	0.00910 U
DUP-01-010917	'0-0.5	9/17/2001		0.00580 U	0.00580 U	0.00160 J	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
DUP-01-010926	'1-2	9/26/2001	18.0 JNB	0.0120 U	0.0120 U	0.0120 U	0.0120 U		0.0120 U	0.0120 U	0.0120 U	0.0120 U
DUP-01-010927	'4-6	9/27/2001	1.30 JNB	0.00460 J	0.00760 U	0.00760 U	0.00760 U		0.00760 U	0.00760 U	0.00760 U	0.00760 U
DUP-01-021001	'0-0	10/2/2001		0.00430 U	0.00430 U	0.00430 U	0.00430 U	0.00790 JN	0.00430 U	0.00430 U	0.00430 U	0.00430 U
DUP-01-08 2201	'1.5-2	8/22/2001	1.30 JNB	0.00600 U	0.00600 U	0.00600 U	0.00600 U		0.00600 U	0.00600 U	0.00600 U	0.00600 U
DUP-01-121001	'0-0	10/12/2001	0.160 JNB	0.00700 U	0.00700 U	0.00700 U	0.00700 U		0.00700 U	0.00700 U	0.00700 U	0.00700 U
DUP-01-170402	'0-0	4/17/2002		1.40 U	1.40 U	1.40 U	1.40 U		1.40 U	1.40 U	1.40 U	1.40 U
DUP-02-010913	'0-0.5	9/13/2001		0.00520 U	0.00460 J	0.00520 U	0.00520 U		0.00520 U	0.0253	0.00520 U	0.00520 U
DUP-02-010921	'0-1	9/21/2001		0.00940	0.00630 U	0.00630 U	0.00630 U		0.00630 U	0.00370 J	0.00630 U	0.00630 U
DUP-02-010926	'4-6	9/26/2001	0.340 JNB	0.00540 U	0.00540 U	0.0177	0.00540 U		0.00540 U	0.00540 U	0.00540 U	0.00540 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
DUP060807	'0-0	6/8/2007		0.0180 U	0.0160 U	0.0350 U	0.0130 U		0.0330 U	0.0250 U	0.0330 U	0.0120 U
DUP-1-010828	'0-0.5	8/28/2001	0.180 JNB	0.00560 U	0.00560 U	0.00560 U	0.00560 U		0.00560 U	0.00560 U	0.00560 U	0.00560 U
DUP-1-010921	'0-0.5	9/21/2001		0.00680 U	0.00680 U	0.00680 U	0.00680 U		0.00680 U	0.00680 U	0.00680 U	0.00680 U
DUP110606	'15-17	11/6/2006		0.0591 J	0.0660 U	0.0300 U	0.0380 U		0.120 U	0.0400 U	0.0320 U	0.0470 U
DUP112006	'16-18	11/20/2006		0.0960 U	0.170 U	0.0750 U	0.0960 U		0.300 U	0.100 U	0.0800 U	0.120 U
DUP112106	'10-12	11/21/2006		0.150 J	0.180 U	0.0810 U	0.100 U		0.330 U	0.110 U	0.0870 U	0.130 U
DUP-120506	'0-4	12/5/2006		0.0270 U	0.0470 U	0.0210 U	0.0270 U		0.0850 U	0.0290 U	0.0230 U	0.0330 U
DUP-120606	'0-4	12/6/2006		0.0260 U	0.0440 U	0.0200 U	0.0260 U		0.0810 U	0.0270 U	0.0210 U	0.0310 U
DUPE071801	'0-0.5	7/18/2001		0.00660 U	0.00660 U	0.00660 U	0.00660 U		0.00660 U	0.0161	0.00660 U	0.00660 U
EC-1	'0-1	8/21/2001	0.890 JNB	0.00640 U	0.00640 U	0.00640 U	0.00640 U		0.00640 U	0.00640 U	0.00640 U	0.00640 U
EC-2	'0-1	8/21/2001	1.40 JNB	0.00850 U	0.00850 U	0.00850 U	0.00850 U		0.00850 U	0.00850 U	0.00850 U	0.00850 U
EC-3	'0-1	8/21/2001	0.460 JNB	0.00700 U	0.00700 U	0.00700 U	0.00700 U		0.00700 U	0.00700 U	0.00700 U	0.00700 U
EC-4	'0-1	8/21/2001	2.40 JNB	0.00880 U	0.00880 U	0.00880 U	0.00880 U		0.00880 U	0.00880 U	0.00880 U	0.00880 U
EC-5	'0-1	8/21/2001	0.510 JNB	0.00510 U	0.00510 U	0.00510 U	0.00510 U		0.00510 U	0.00510 U	0.00510 U	0.00510 U
EC-6	'0-1	8/21/2001	1.80 JNB	0.00650 U	0.00650 U	0.00650 U	0.00650 U		0.00650 U	0.00650 U	0.00650 U	0.00650 U
EC-7	'0-1	8/21/2001	2.00 JNB	0.00740 U	0.00740 U	0.00740 U	0.00740 U		0.00740 U	0.00740 U	0.00740 U	0.00740 U
EC-8	'0-1	8/21/2001	1.40 JNB	0.00670 U	0.00670 U	0.00670 U	0.00670 U		0.00670 U	0.00670 U	0.00670 U	0.00670 U
EC-9	'0-1	8/21/2001	1.40 JNB	0.00640 U	0.00640 U	0.00640 U	0.00640 U		0.00640 U	0.00640 U	0.00640 U	0.00640 U
ESR-1-0-1	'0-0.5	9/4/2001	1.80 JNB	0.00560 U	0.00560 U	0.00560 U	0.00560 U		0.00560 U	0.00560 U	0.00560 U	0.00560 U
ESR-1-4-6	'4-6	9/4/2001		0.00570 U	0.00570 U	0.00570 U	0.00570 U		0.00570 U	0.00570 U	0.00570 U	0.00570 U
HB-101A	'17-17	3/5/2007		0.0300 U	0.0520 U	0.0240 U	0.0300 U		0.0960 U	0.0320 U	0.0250 U	0.0370 U
HB-102A	'0-0	3/13/2007		0.0860 U	0.150 U	0.0670 U	0.0850 U		0.270 U	0.634 J	0.0720 U	0.100 U
HB-102B	'0-0	3/14/2007		0.0340 UJ	0.0580 U	0.121 J	0.0340 U		0.110 U	7.22	0.0280 U	0.0410 U
HB-102C	'0-0	3/14/2007		0.0290 UJ	0.0500 U	0.0230 U	0.0290 U		0.0910 U	1.06	0.0240 U	0.0350 U
H-B-103A	'17-17	2/20/2007		0.0500 U	0.0850 U	0.344 J	0.0490 U		0.160 U	0.0520 U	0.0410 U	0.0600 U
H-B-104A	'17-17	2/23/2007		0.0360 U	0.0620 U	0.683	0.0360 U		0.110 U	0.0380 U	0.0300 U	0.0440 U
H-B-104B	'17-17	2/23/2007		0.0300 U	0.0510 U	0.152 J	0.0300 U		0.0940 U	0.0310 U	0.0250 U	0.0360 U
H-B-104C	'17-17	2/23/2007		0.0390 U	0.0670 U	0.532	0.0390 U		0.120 U	0.0410 U	0.0320 U	0.0470 U
H-B-104D	'17-17	2/27/2007		0.0330 U	0.0560 U	0.105 J	0.0320 U		0.100 U	0.0340 U	0.0270 U	0.0400 U
H-B-104E	'17-17	2/27/2007		0.0300 U	0.0520 U	0.0240 U	0.0300 U		0.0950 U	0.0320 U	0.0250 U	0.0370 U
H-B-105C	'17-17	2/8/2007		0.0290 U	0.0500 U	0.0413 J	0.0290 U		0.0910 U	0.0310 U	0.0240 U	0.0350 U
H-B-105D	'17-17	2/8/2007		0.0330 U	0.0570 U	0.0260 U	0.0330 U		0.100 U	0.0350 U	0.0280 U	0.0400 U
H-B-105E	'0-0	2/8/2007		0.0340 U	0.0580 U	0.0270 U	0.0340 U		0.110 U	0.0360 U	0.0280 U	0.0410 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
HB-1A	'6.75-6.75	4/18/2002		0.108	0.0100 U	0.203	0.0100 U		0.0100 U	0.0598	0.0100 U	0.0100 U
HB-3A	'5.25-5.25	4/17/2002		1.80 U	1.80 U	1.80 U	1.80 U		1.80 U	1.80 U	1.80 U	1.80 U
HB-3B	'4.5-4.5	4/17/2002		0.00440 U	0.00440 U	0.00440 U	0.00440 U	0.00910 JN	0.00440 U	0.00440 U	0.00440 U	0.00440 U
HB-3C	'4.5-4.5	4/18/2002		0.00450 U	0.00450 U	0.00450 U	0.00450 U	0.00860 JN	0.00450 U	0.00450 U	0.00450 U	0.00450 U
HB-3D	'4.5-4.5	4/18/2002		0.00930	0.00670 U	0.00670 U	0.00670 U		0.00670 U	0.00670 U	0.00670 U	0.00670 U
HB-4A	'5.33-5.33	4/19/2002		0.00220 J	0.00510 U	0.00510 U	0.00510 U		0.00510 U	0.00510 U	0.00510 U	0.00510 U
HB-5A	'3-3	4/22/2002		0.00510 J	0.00510 U	0.00510 U	0.00510 U		0.00510 U	0.00510 U	0.00510 U	0.00510 U
HB-7A	'5-5	4/19/2002		0.0101	0.00600 U	0.00290 J	0.00600 U		0.00600 U	0.00600 U	0.00340 J	0.00450 J
HB-8A	'3-3	4/23/2002		0.00680 U	0.00680 U	0.00680 U	0.00680 U		0.00680 U	0.00680 U	0.00680 U	0.00680 U
HB-8B	'4.83-4.83	4/23/2002		0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00750 JN	0.00720 U	0.00720 U	0.00720 U	0.00720 U
HB-8C	'5.5-5.5	4/23/2002		0.0609	0.00620 U	1.34	0.00620 U		0.00620 U	0.00620 U	0.00620 U	0.00620 U
HB-9A	'4.75-4.75	4/24/2002		0.0155	0.00560 U	0.0226	0.00560 U		0.00560 U	0.00560 U	0.00560 U	0.00560 U
HF-B1-0-0.5	'0-0.5	9/10/2001	0.220 JNB	0.0120 U	0.0120 U	0.0120 U	0.0120 U		0.0120 U	0.0120 U	0.0120 U	0.0120 U
HF-B1-8-10	'8-10	9/10/2001	3.70 JNB	0.00240 J	0.00400 U	0.00400 U	0.00400 U		0.00400 U	0.00400 U	0.00400 U	0.0461
HF-B2-0-0.5	'0-0.5	9/4/2001	0.630 JNB	0.00480 U	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.00480 U	0.00480 U	0.00480 U
HF-B2-4-6	'4-6	9/4/2001	0.780 JNB	0.00600 U	0.00600 U	0.00600 U	0.00600 U		0.00600 U	0.00600 U	0.00600 U	0.00600 U
HF-B3-0-.5	'0-0.5	10/2/2001		0.00610 U	0.00610 U	0.00610 U	0.00610 U	0.0130 JN	0.00610 U	0.00300 J	0.00610 U	0.00610 U
HF-B3-8-10	'8-10	10/2/2001		0.00680 U	0.00680 U	0.00680 U	0.00680 U		0.00680 U	0.00360 J	0.00680 U	0.00680 U
IB-1-0-2	'0-2	4/8/2002		0.00640	0.00590 U	0.00590 U	0.00590 U		0.00590 U	0.00830	0.00590 U	0.00590 U
IB-1-4-6	'4-6	4/8/2002		0.00180 J	0.00600 U	0.00320 J	0.00600 U		0.00600 U	0.00150 J	0.00600 U	0.00600 U
IB-2-12-14	'12-14	4/8/2002		0.00400 J	0.00580 U	0.00120 J	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
IB-2-4-6	'4-6	4/8/2002		0.00500 J	0.00510 U	0.00510 U	0.00510 U		0.00510 U	0.00200 J	0.00510 U	0.00510 U
IB-3-4-6	'4-6	4/8/2002		0.00760	0.00560 U	0.0170	0.00560 U		0.00560 U	0.00560 U	0.00560 U	0.00560 U
IB-3-8-10	'8-10	4/8/2002		0.00620 J	0.00880 U	0.00880 U	0.00880 U		0.00880 U	0.00880 U	0.00880 U	0.00880 U
LB-101-0-1	'0-1	12/6/2006		0.0300 U	0.0510 U	0.0230 U	0.0300 U		0.0940 U	0.0310 U	0.0250 U	0.0360 U
LB-101-1-3	'1-3	12/6/2006		0.0240 U	0.0410 U	0.0190 U	0.0240 U		0.0750 U	0.0250 U	0.0200 U	0.0290 U
LB-102-0-1	'0-3	12/6/2006		0.0320 U	0.0560 U	0.0250 U	0.0320 U		0.100 U	0.0340 U	0.0270 U	0.0390 U
LB-102-1-3	'3-7	12/6/2006		0.0270 U	0.0460 U	0.0210 U	0.0270 U		0.0850 U	0.0280 U	0.0220 U	0.0330 U
LB-103-0-1	'0-1	12/6/2006		0.0310 U	0.0540 U	0.0250 U	0.0310 U		0.0980 U	0.0330 U	0.0260 U	0.0380 U
LB-103-5-7	'5-7	12/6/2006		0.0400 U	0.0690 U	0.0310 U	0.0400 U		0.130 U	0.0420 U	0.0330 U	0.0490 U
LHP-101-0-1	'0-1	12/4/2006		0.0360 U	0.0620 U	0.0280 U	0.0360 U		0.110 U	0.0380 U	0.0300 U	0.0440 U
LHP-101-5-8	'4-8	12/4/2006		0.0640 U	0.110 U	6.96	0.0640 U		0.200 U	0.0680 U	0.0540 U	0.0780 U
LHP-102-0-1	'0-1	12/5/2006		0.0370 U	0.0640 U	0.0290 U	0.0370 U		0.120 U	0.0390 U	0.0310 U	0.0450 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
LHP-102-7-9	'7-9	12/5/2006		0.00180 J	0.00130 U	0.00250 J	0.000730 U		0.00230 U	0.000780 U	0.000620 U	0.000900 U
LHP-102-7-9	'7-9	12/6/2006		0.0590 U	0.100 U	0.360 J	0.0580 U		0.190 U	0.0620 U	0.0490 U	0.0710 U
LHP-103-0-1	'0-1	12/5/2006		0.0310 U	0.0540 U	0.0250 U	0.0310 U		0.0990 U	0.0330 U	0.0260 U	0.0380 U
LHP-103-1-3	'1-3	12/5/2006		0.0350 U	0.0590 U	0.0270 U	0.0340 U		0.110 U	0.0360 U	0.0290 U	0.0420 U
LHP-104-0-1	'0-1	12/5/2006		0.0300 U	0.0520 U	0.0240 U	0.0300 U		0.0950 U	0.0320 U	0.0250 U	0.0370 U
LHP-104-7-9	'4-8	12/5/2006		0.0460 U	0.0780 U	0.993	0.0450 U		0.140 U	0.0480 U	0.0380 U	0.0550 U
LHP-105-0-1	'0-1	12/5/2006		0.0280 U	0.0480 U	0.0220 U	0.0280 U		0.0870 U	0.0290 U	0.0230 U	0.0340 U
LHP-105-1-3	'1-3	12/5/2006		0.0350 U	0.0600 U	0.0280 U	0.0350 U		0.110 U	0.0370 U	0.0290 U	0.0430 U
LHP-106-0-1	'0-1	12/4/2006		0.0270 U	0.0460 U	0.0210 U	0.0270 U		0.0840 U	0.0280 U	0.0220 U	0.0320 U
LHP-106-1-3	'1-3	12/4/2006		0.0390 U	0.0670 U	0.0310 U	0.0390 U		0.120 U	0.0410 U	0.0320 U	0.0470 U
LHP-107-0-1	'0-1	12/5/2006		0.0260 U	0.0440 U	0.0200 U	0.0250 U		0.0810 U	0.0270 U	0.0210 U	0.0310 U
LHP-107-5-7	'4-8	12/5/2006		0.0320 U	0.0540 U	0.0250 U	0.0310 U		0.100 U	0.0330 U	0.0260 U	0.0380 U
LHP-108-0-1	'0-1	12/6/2006		0.0330 U	0.0570 U	0.0260 U	0.0330 U		0.100 U	0.0350 U	0.0270 U	0.0400 U
LHP-108-3-7	'3-7	12/6/2006		0.0330 U	0.0570 U	0.0260 U	0.0330 U		0.110 U	0.0350 U	0.0280 U	0.0410 U
LHP-109-0-1	'0-1	12/6/2006		0.0340 U	0.0580 U	0.0260 U	0.0330 U		0.110 U	0.0350 U	0.0280 U	0.0410 U
LHP-109-7-9	'7-9	12/6/2006		0.0530 U	0.0920 U	0.575	0.0530 U		0.170 U	0.0560 U	0.0440 U	0.0650 U
LHP-110-0-1	'0-1	12/4/2006		0.0570 U	0.0990 U	0.0450 U	0.0570 U		0.180 U	0.0610 U	0.0480 U	0.0700 U
LHP-111-0-1	'0-1	12/4/2006		0.0270 U	0.0470 U	0.0210 U	0.0270 U		0.0850 U	0.0290 U	0.0230 U	0.0330 U
LHP-112-0-1	'0-1	12/4/2006		0.0280 U	0.0490 U	0.0220 U	0.0280 U		0.0890 U	0.0300 U	0.0240 U	0.0340 U
LHP-113-0-1	'0-1	12/4/2006		0.0270 U	0.0460 U	0.157 J	0.0270 U		0.0850 U	0.0280 U	0.0220 U	0.0330 U
LHP-114-0-1	'0-1	12/4/2006		0.0260 U	0.0450 U	0.0210 U	0.0260 U		0.0830 U	0.0280 U	0.0220 U	0.0320 U
LHP-115-0-1	'0-1	12/4/2006		0.0260 U	0.0440 U	0.0353 J	0.0260 U		0.0810 U	0.0270 U	0.0220 U	0.0310 U
LHP-116-0-1	'0-1	12/4/2006		0.0290 U	0.0490 U	0.0230 U	0.0290 U		0.0910 U	0.0300 U	0.0240 U	0.0350 U
LHP-117-0-1	'0-1	12/4/2006		0.0300 U	0.0520 U	0.0240 U	0.0300 U		0.0960 U	0.0320 U	0.0250 U	0.0370 U
LHP-118-0-1	'0-1	12/4/2006		0.0421 J	0.0670 U	0.0310 U	0.0390 U		0.120 U	0.0410 U	0.0330 U	0.0470 U
LHP-119-0-1	'0-1	12/4/2006		0.0380 U	0.0650 U	0.0290 U	0.0370 U		0.120 U	0.0400 U	0.0310 U	0.0460 U
LHP-120-0-1	'0-1	12/4/2006		0.0500 U	0.0870 U	0.0400 U	0.0500 U		0.160 U	0.0530 U	0.0420 U	0.0610 U
LHP-121-0-1	'0-1	12/6/2006		0.0370 U	0.0640 U	0.0290 U	0.0370 U		0.120 U	0.0390 U	0.0310 U	0.0450 U
LHP-122-0-1	'0-1	12/6/2006		0.0300 U	0.0510 U	0.0230 U	0.0300 U		0.0940 U	0.0320 U	0.0250 U	0.0360 U
LHP-123-0-1	'0-1	12/4/2006		0.0330 U	0.0570 U	0.0260 U	0.0330 U		0.100 U	0.0350 U	0.0280 U	0.0400 U
LHP-124-.5-2	'0.5-2	10/27/2006		0.0430 U	0.0730 U	0.0330 U	0.0420 U		0.130 U	0.0450 U	0.0360 U	0.0520 U
LHP-124-2-4	'2-4	10/27/2006		0.0300 U	0.0520 U	0.0240 U	0.0300 U		0.0960 U	0.0320 U	0.0250 U	0.0370 U
LHP-124-28-30	'28-30	10/31/2006		0.0420 U	0.0720 U	0.0330 U	0.0420 U		0.130 U	0.0440 U	0.0350 U	0.0510 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006		0.0340 U	0.0580 U	0.0270 U	0.0340 U		0.110 U	0.0360 U	0.0280 U	0.0410 U
LHP-125-10.5-12	'10.5-12	11/1/2006		0.0400 U	0.0690 U	0.0310 U	0.0400 U		0.130 U	0.0420 U	0.0330 U	0.0480 U
LHP-125-12-14	'12-14	11/1/2006		0.0310 U	0.0530 U	0.0240 U	0.0310 U		0.0980 U	0.0330 U	0.0260 U	0.0380 U
LHP-125-4-6	'4-6	10/27/2006		0.0360 U	0.0610 U	0.0280 U	0.0350 U		0.110 U	0.0380 U	0.0300 U	0.0430 U
LHP-126-10.5-12	'10.5-12	11/1/2006		0.270 UJ	0.460 UJ	0.210 UJ	0.270 UJ		0.840 UJ	0.280 UJ	0.220 UJ	0.320 UJ
LHP-126-14-16	'14-16	11/1/2006		0.0330 U	0.0570 U	0.0260 U	0.0330 U		0.100 U	0.0350 U	0.0270 U	0.0400 U
LHP-126-2-4	'2-4	10/26/2006		0.0340 U	0.0580 U	0.0270 U	0.0340 U		0.110 U	0.0360 U	0.0280 U	0.0410 U
LHP-126-8-10	'9-10	10/26/2006		0.0500 U	0.0860 U	0.0667 J	0.0500 U		0.160 U	0.0530 U	0.0420 U	0.0610 U
LHP-127-0-1	'0-1	12/6/2006		0.0390 U	0.0670 U	0.0300 U	0.0390 U		0.120 U	0.0410 U	0.0320 U	0.0470 U
LHP-127-3-5	'3-5	12/6/2006		0.0300 U	0.0510 U	0.0230 U	0.0300 U		0.0940 U	0.0320 U	0.0250 U	0.0360 U
LHP-128-0-1	'0-4	12/6/2006		0.0250 U	0.0430 U	0.0200 U	0.0250 U		0.0790 U	0.0260 U	0.0210 U	0.0310 U
LHP-128-7-8	'17-17	12/6/2006		0.0530 U	0.0910 U	1.53	0.0530 U		0.170 U	0.0560 U	0.0440 U	0.0650 U
LP-1-0-0.5	'0-0.5	8/27/2001	0.180 JNB	0.00620 U	0.00620 U	0.00620 U	0.00620 U		0.00620 U	0.00620 U	0.00620 U	0.00620 U
LP-10-0.5-2	'0.5-2	8/27/2001		0.00510 U	0.00510 U	0.00510 U	0.00510 U		0.00510 U	0.0164	0.00510 U	0.00510 U
LP-10-0-0.5	'0-0.5	8/27/2001		0.00620 U	0.00620 U	0.00620 U	0.00620 U		0.00620 U	0.00620 U	0.00620 U	0.00620 U
LP-101-11-13	'11-13	11/2/2006		0.0950 U	0.160 U	0.0740 U	0.0940 U		0.300 U	0.100 U	0.0790 U	0.120 U
LP-101-14-16	'14-16	11/2/2006		0.0860 U	0.150 U	0.0670 U	0.0850 U		0.270 U	0.0900 U	0.0720 U	0.100 U
LP-101-26-28	'26-28	11/2/2006		0.0310 U	0.0530 U	0.0240 U	0.0300 U		0.0970 U	0.0320 U	0.0260 U	0.0370 U
LP-101-50-52	'50-52	11/2/2006		0.0310 U	0.0530 U	0.0240 U	0.0310 U		0.0980 U	0.0330 U	0.0260 U	0.0380 U
LP-11-0-0.5	'0-0.5	8/27/2001		0.00670 U	0.00670 U	0.00670 U	0.00670 U		0.00670 U	0.00670 U	0.00670 U	0.00670 U
LP-12-0-0.5	'0-0.5	8/27/2001	0.530 JNB	0.00720 U	0.00720 U	0.00720 U	0.00720 U		0.00720 U	0.00720 U	0.00720 U	0.00720 U
LP-12-4-6	'4-6	8/27/2001	0.180 JNB	0.00580 U	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
LP-13-0-0.5	'0-0.5	8/24/2001		0.00500 U	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.00500 U
LP-14-0.5-2	'0.5-2	8/24/2001		0.00540 U	0.00540 U	0.00540 U	0.00540 U		0.00540 U	0.00540 U	0.00540 U	0.00540 U
LP-14-0-0.5	'0-0.5	8/24/2001		0.00530 J	0.00640 U	0.00640 U	0.00640 U		0.00640 U	0.00640 U	0.00640 U	0.00640 U
LP-15-0-0.5	'0-0.5	8/24/2001	0.420 JNB	0.00680 U	0.00680 U	0.00680 U	0.00680 U		0.00680 U	0.00680 U	0.00680 U	0.00680 U
LP-16-0.5-2	'0.5-2	8/27/2001		0.00440 U	0.00440 U	0.00440 U	0.00440 U		0.00440 U	0.00440 U	0.00440 U	0.00440 U
LP-16-0-0.5	'0-0.5	8/27/2001		0.00730 U	0.00730 U	0.00730 U	0.00730 U		0.00730 U	0.00730 U	0.00730 U	0.00730 U
LP-2-0.5-2	'0.5-2	8/28/2001		0.00480 U	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.0112	0.00480 U	0.00480 U
LP-2-0-0.5	'0-0.5	8/28/2001	0.930 JNB	0.00690 U	0.00690 U	0.00690 U	0.00690 U		0.00690 U	0.00690 U	0.00690 U	0.00690 U
LP-3-0-0.5	'0-0.5	8/27/2001		0.00570 U	0.00570 U	0.00570 U	0.00570 U		0.00570 U	0.00570 U	0.00570 U	0.00570 U
LP-4 .5-2	'0.5-2	8/21/2001	1.60 JNB	0.640 U	0.640 U	0.640 U	0.640 U		0.640 U	0.416 J	0.640 U	0.640 U
LP-4 0-.5	'0-0.5	8/21/2001	1.50 JNB	0.580 U	0.580 U	0.580 U	0.580 U		0.580 U	0.802	0.580 U	0.580 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001		0.00620 U	0.00620 U	0.00620 U	0.00620 U		0.00620 U	0.00620 U	0.00620 U	0.00620 U
LP-6-0-0.5	'0-0.5	8/27/2001	1.20 JNB	0.00640 U	0.00640 U	0.00640 U	0.00640 U		0.00640 U	0.00640 U	0.00640 U	0.00640 U
LP-6-4-6	'4-6	8/27/2001	0.480 JNB	0.00660 U	0.00660 U	0.00660 U	0.00660 U		0.00660 U	0.00660 U	0.00660 U	0.00660 U
LP-7-0-0.5	'0-0.5	8/24/2001		0.00500 U	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.00500 U
LP-8-0-0.5	'0-0.5	8/24/2001	0.170 JNB	0.00620 U	0.00620 U	0.00620 U	0.00620 U		0.00620 U	0.00620 U	0.00620 U	0.00620 U
LP-8-10-12	'10-12	8/24/2001	0.420 JNB	0.0490	0.0120 U	0.0120 U	0.0120 U		0.0120 U	0.0120 U	0.0120 U	0.0120 U
LP-9-0-0.5	'0-0.5	8/24/2001		0.00640 J	0.00700 U	0.00700 U	0.00700 U		0.00700 U	0.00700 U	0.00700 U	0.00700 U
MW-11D-12-14	'12-14	12/14/2006		0.633 J	0.795 J	0.117 J	0.110 U		0.330 U	20.0	0.0880 U	0.130 U
MW-11D-14-16	'14-16	12/14/2006		0.870	0.0640 U	0.0290 U	0.0370 U		0.120 U	0.757	0.0310 U	0.0450 U
MW-11D-16-18	'16-18	12/14/2006		1.28	0.648	0.130 J	0.0350 U		0.110 U	2.65	0.0290 U	0.0430 U
MW-14D-13-15	'13-15	11/14/2006		0.0410 U	0.0700 U	0.0320 U	0.0410 U		0.130 U	0.0430 U	0.0340 U	0.0500 U
MW-14D-17-19	'17-19	11/14/2006		0.0330 U	0.0570 U	0.0260 U	0.0330 U		0.100 U	0.0350 U	0.0280 U	0.0400 U
MW-16D-13-15	'13-15	11/17/2006		0.202 J	0.0500 U	0.0230 U	0.0290 U		0.0930 U	0.0310 U	0.0250 U	0.0360 U
MW-16D-17-19	'17-19	11/20/2006		0.0290 U	0.0490 U	0.0400 J	0.0290 U		0.0900 U	0.0300 U	0.0240 U	0.0350 U
MW-17D-15-17	'15-17	11/10/2006		0.0632 J	0.0660 U	0.0300 U	0.0380 U		0.120 U	0.0410 U	0.0320 U	0.0470 U
MW-17D-17-19	'17-19	11/10/2006		0.0300 U	0.0510 U	0.0230 U	0.0300 U		0.0940 U	0.0310 U	0.0250 U	0.0360 U
MW-18D-13-15	'13-15	11/13/2006		0.0450 U	0.0770 U	0.468	0.0450 U		0.140 U	0.0470 U	0.0380 U	0.0550 U
MW-18D-17-19	'17-19	11/13/2006		0.0310 U	0.0530 U	0.198 J	0.0310 U		0.0970 U	0.0320 U	0.0260 U	0.0370 U
MW-20D-12-14	'12-14	11/9/2006		0.0470 U	0.0810 U	0.0370 U	0.0470 U		0.150 U	0.0500 U	0.0390 U	0.0570 U
MW-20D-32-34	'32-32.9	11/10/2006		0.0280 U	0.0480 U	0.107 J	0.0280 U		0.0870 U	0.0290 U	0.0230 U	0.0340 U
MW-20D-36-38	'36-38	11/10/2006		0.0330 U	0.0570 U	0.384	0.0330 U		0.110 U	0.0350 U	0.0280 U	0.0410 U
MW-21D-13-15	'13-13.7	11/16/2006		0.0450 U	0.0780 U	0.0350 U	0.0450 U		0.140 U	0.0480 U	0.0380 U	0.0550 U
MW-21D-15-17	'15-17	11/16/2006		0.0310 U	0.0540 U	0.0250 U	0.0310 U		0.0990 U	0.0330 U	0.0260 U	0.0380 U
MW-23D-15-17	'15-16	11/15/2006		0.0410 U	0.0710 U	0.0320 U	0.0410 U		0.130 U	0.0430 U	0.0340 U	0.0500 U
MW-23D-37-39	'37-37.9	11/15/2006		0.0390 U	0.0670 U	0.0310 U	0.0390 U		0.120 U	0.0410 U	0.0330 U	0.0480 U
MW-25D-10-12	'10-12	11/21/2006		0.346 J	0.180 U	0.0800 U	0.100 U		0.320 U	0.110 U	0.0860 U	0.120 U
MW-25D-33-35	'33-35	12/18/2006		0.0370 U	0.0640 U	0.0290 U	0.0370 U		0.120 U	0.0390 U	0.0310 U	0.0450 U
MW-26S-8-10	'8-10	10/26/2006		0.0410 U	0.0710 U	0.168 J	0.0410 U		0.130 U	0.0430 U	0.0340 U	0.0500 U
MW-6D-0-2	'0-2	11/8/2006		0.0300 U	0.0520 U	0.0240 U	0.0300 U		0.0950 U	0.0320 U	0.0250 U	0.0370 U
MW-6D-12-14	'12-14	11/8/2006		0.130 U	0.230 U	7.64	0.130 U		0.430 U	0.140 U	0.110 U	0.160 U
MW-6D-16-18	'16-18	11/20/2006		0.0860 U	0.150 U	0.0670 U	0.0850 U		0.270 U	0.0910 U	0.0720 U	0.100 U
MW-6D-30-32	'30-32	11/21/2006		0.0400 U	0.0680 U	0.0310 U	0.0400 U		0.130 U	0.0420 U	0.0330 U	0.0480 U
PCA-1-0-.5	'0-2	7/17/2001		0.0390 U	0.0390 U	0.0390 U	0.0390 U		0.0390 U	0.0390 U	0.0390 U	0.0390 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
PCA-1-4-6	'4-6	7/17/2001		0.00700 U	0.00700 U	0.00700 U	0.00700 U		0.00700 U	0.00700 U	0.00700 U	0.00700 U
PCA-2-0-.5	'0-0.5	7/17/2001		0.00490 U	0.00490 U	0.00490 U	0.00490 U		0.00490 U	0.00430 J	0.00490 U	0.00490 U
PCA-3-0-0.5	'0-0.5	9/13/2001		0.00600 U	0.00600 U	0.00600 U	0.00600 U		0.00600 U	0.00600 U	0.00600 U	0.00600 U
PCA-3-4-6	'4-6	9/13/2001	1.80 JNB	0.0100 U	0.0100 U	0.0100 U	0.0100 U		0.0100 U	0.0100 U	0.0100 U	0.0100 U
PCA-4-0-0.5	'0-0.5	9/13/2001	0.650 JNB	0.00560 U	0.00560 U	0.00560 U	0.00560 U		0.00560 U	0.00230 J	0.00560 U	0.00560 U
PCA-4-4-6	'4-6	9/26/2001	0.140 JNB	0.0155	0.00770 U	0.00770 U	0.00770 U		0.00770 U	0.00770 U	0.00770 U	0.00770 U
PCA-5-0.5-2	'0.5-2	9/7/2001	0.300 JNB	0.00430 U	0.00430 U	0.00430 U	0.00430 U		0.00430 U	0.00430 U	0.00430 U	0.00430 U
PCA-5-0-0.5	'0-0.5	9/7/2001		0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.0473	0.00520 U	0.00530
PCA-6-0-0.5	'0-0.5	9/7/2001	1.90 JNB	0.00630 U	0.00630 U	0.00630 U	0.00630 U		0.00630 U	0.0375	0.00630 U	0.00630 U
RR-1 0-0.5	'0-0.5	8/22/2001	0.410 JNB	0.00480 U	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.00480 U	0.00480 U	0.00480 U
RR-1 14-16	'14-16	8/22/2001	1.20 JNB	0.290 U	0.290 U	4.27	0.290 U		0.290 U	0.290 U	0.290 U	0.290 U
RR-10 0-.5	'0-0.5	10/12/2001	0.990 JNB	0.00640 U	0.00640 U	0.00640 U	0.00640 U		0.00640 U	0.00640 U	0.00640 U	0.00640 U
RR-11 0-.5	'0-0.5	10/12/2001	2.40 JNB	0.00630 U	0.00630 U	0.00630 U	0.00630 U		0.00630 U	0.00630 U	0.00630 U	0.00630 U
RR-12 0-.5	'0-0.5	10/12/2001	11.0 JNB	0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00520 U
RR-2-0-0.5	'0-0.5	9/13/2001	1.80 JNB	0.00500 U	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.00500 U
RR-2-8-10	'8-10	9/13/2001	0.230 JNB	0.00730 U	0.00730 U	0.00730 U	0.00730 U		0.00730 U	0.00730 U	0.00730 U	0.00730 U
RR-3-0-0.5	'0-0.5	9/13/2001	1.10 JNB	0.00560 U	0.00560 U	0.00560 U	0.00560 U		0.00560 U	0.00560 U	0.00560 U	0.00200 J
RR-4-0-0.5	'0-0.5	9/10/2001	1.90 JNB	0.00820 U	0.00820 U	0.00820 U	0.00820 U		0.00820 U	0.00820 U	0.00820 U	0.00820 U
RR-4-6-8	'6-8	9/13/2001	2.10 JNB	0.0100 U	0.0100 U	0.0100 U	0.0100 U		0.0100 U	0.00880 J	0.0100 U	0.0100 U
RR-5-0-0.5	'0-0.5	9/10/2001	1.80 JNB	0.00720 U	0.00720 U	0.00720 U	0.00720 U		0.00720 U	0.00720 U	0.00720 U	0.00720 U
RR-6-0-0.5	'0-0.5	9/10/2001	0.270 JNB	0.00630 U	0.00630 U	0.00630 U	0.00630 U		0.00630 U	0.00630 U	0.00630 U	0.00630 U
RR-6-8-10	'8-10	9/10/2001	0.320 JNB	0.00270 J	0.00400 U	0.0130	0.00400 U		0.00400 U	0.00400 U	0.00400 U	0.00400 U
RR-7-0-0.5	'0-0.5	9/10/2001		0.00510 U	0.00510 U	0.00510 U	0.00510 U		0.00510 U	0.00350 J	0.00510 U	0.00370 J
RR-8-0-0.5	'0-0.5	9/26/2001	0.120 JNB	0.00740 U	0.00740 U	0.00740 U	0.00740 U		0.00740 U	0.00740 U	0.00740 U	0.00740 U
RR-8-6-8	'6-8	9/26/2001	1.60 JNB	0.0117 J	0.0240 U	0.481	0.0240 U		0.0240 U	0.0240 U	0.0240 U	0.0240 U
RR-9 0-.5	'0-0.5	10/12/2001	0.550 JNB	0.00660 U	0.00660 U	0.00660 U	0.00660 U		0.00660 U	0.00660 U	0.00660 U	0.00660 U
SC-1	'0-1	8/21/2001	0.810 JNB	0.00760 U	0.00760 U	0.00760 U	0.00760 U		0.00760 U	0.00760 U	0.00760 U	0.00760 U
SC-2	'0-1	8/22/2001	2.00 JNB	0.00660 U	0.00660 U	0.00660 U	0.00660 U		0.00660 U	0.00660 U	0.00660 U	0.00660 U
SC-3	'0-1	8/22/2001	0.180 JNB	0.00690 U	0.00690 U	0.00690 U	0.00690 U		0.00690 U	0.00690 U	0.00690 U	0.00690 U
SILO-B1-0-0.5	'0-0.5	9/6/2001	1.70 JNB	0.00530 U	0.00530 U	0.00530 U	0.00530 U		0.00530 U	0.00530 U	0.00530 U	0.00530 U
SILO-B1-6-8	'6-8	9/6/2001	13.0 JNB	0.0835	0.0210 U	0.396	0.0210 U		0.0210 U	0.0210 U	0.0210 U	0.0210 U
SILO-B2-0-0.5	'0-0.5	9/6/2001		0.00520	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.0208	0.00520 U	0.00520 U
SILO-B3-0-0.5	'0-0.5	9/6/2001		0.0208	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.00500 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
SILO-B3-6-8	'6-8	9/6/2001	0.970 JNB	0.0146	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.00480 U	0.00480 U	0.00480 U
SILO-B4-0-0.5	'0-0.5	9/6/2001	1.30 JNB	0.00800 U	0.00800 U	0.00800 U	0.00800 U		0.00800 U	0.00800 U	0.00800 U	0.00800 U
SPR-1-0-0.5	'0-0.5	9/5/2001		0.00570 U	0.00570 U	0.00570 U	0.00570 U		0.00570 U	0.00570 U	0.00570 U	0.00570 U
SPR-1-8-10	'8-10	9/5/2001	2.20 JNB	0.0120 U	0.0120 U	0.0120 U	0.0120 U		0.0120 U	0.0120 U	0.0120 U	0.0120 U
SPR-2A-0-0.5	'0-0.5	7/19/2001		0.00900 U	0.00900 U	0.00900 U	0.00900 U		0.00900 U	0.00160 J	0.00900 U	0.00900 U
SPR-2A-8-10	'8-10	7/19/2001	3.20 JNB	0.980 U	0.980 U	0.980 U	0.980 U		0.980 U	2.55	0.980 U	0.980 U
SPR-2B-0-0.5	'0-0.5	7/19/2001		0.0120 U	0.0120 U	0.0120 U	0.0120 U		0.0120 U	0.0120 U	0.0120 U	0.0120 U
SPR-2B-10-12	'10-12	7/19/2001	4.60 JNB	1.10 U	1.10 U	2.63	1.10 U		1.10 U	6.70	1.10 U	1.10 U
SPR-3 0-.5	'0-0.5	8/21/2001	1.10 JNB	0.430 U	0.430 U	0.430 U	0.430 U		0.430 U	0.201 J	0.430 U	0.430 U
SPR-3 4-6	'4-6	8/21/2001	2.00 JNB	0.540 U	0.540 U	0.540 U	0.540 U		0.540 U	3.62	0.540 U	0.540 U
SPR-4A-0-0.5	'0-0.5	7/19/2001		0.00500 U	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00500 U	0.00500 U	0.00500 U
SPR-4A-8-10	'8-10	7/19/2001	6.30 JNB	1.10 U	1.10 U	1.10 U	1.10 U		1.10 U	0.644 J	1.10 U	1.10 U
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.660 JNB	0.00840	0.00660 U	0.00550 J	0.00660 U		0.00660 U	0.106	0.00660 U	0.00740
SPR-4B-4-6	'4-6	8/23/2001	7.30 JNB	0.00770 U	0.00770 U	0.00770 U	0.00770 U		0.00770 U	0.00720 J	0.00770 U	0.00770 U
SPR-4C-0-0.5	'0-0.5	8/23/2001		0.00580 U	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.0116	0.00580 U	0.00580 U
SPR-4C-4-6	'4-6	8/23/2001		0.360 U	0.360 U	0.360 U	0.360 U		0.360 U	0.242 J	0.360 U	0.360 U
SPR-5-0-0.5	'0-0.5	9/5/2001		0.00600 U	0.00600 U	0.00600 U	0.00600 U		0.00600 U	0.00600 U	0.00600 U	0.00600 U
SPR-5-2-4	'2-4	9/5/2001	0.430 JNB	0.00820 U	0.00820 U	0.108	0.00820 U		0.00820 U	0.00820 U	0.00820 U	0.00820 U
SPR-6-0.5-2	'0.5-2	9/13/2001	2.00 JNB	0.00580 U	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
SPR-6-0-0.5	'0-0.5	9/13/2001	0.210 JNB	0.00530 U	0.00530 U	0.00530 U	0.00530 U		0.00530 U	0.00530 U	0.00530 U	0.00530 U
SR-1-0-.5	'0-0.5	7/17/2001		0.00230 J	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
SR-2-0-.5	'0-0.5	7/17/2001		0.00300 J	0.00670 U	0.00670 U	0.00670 U		0.00670 U	0.00670 U	0.00670 U	0.00670 U
ST-1-0-0.5	'0-0.5	9/5/2001		0.00500 U	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.0189	0.00500 U	0.00500 U
ST-2-0-0.5	'0-0.5	9/5/2001	0.470 JNB	0.00480 U	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.0148	0.00480 U	0.00480 U
ST-3-0-0.5	'0-0.5	9/4/2001	0.580 JNB	0.00590 U	0.00590 U	0.00590 U	0.00590 U		0.00590 U	0.00590 U	0.00590 U	0.00590 U
ST-3-4-6	'4-6	9/4/2001	0.390 JNB	0.00770 U	0.00770 U	0.00770 U	0.00770 U		0.00770 U	0.00770 U	0.00770 U	0.00770 U
TES-1-0-1	'0-1	12/5/2006		0.0390 U	0.0670 U	0.0310 U	0.0390 U		0.120 U	0.0825 J	0.0330 U	0.0480 U
TES-2-0-1	'0-1	12/4/2006		0.0450 U	0.0770 U	0.0350 U	0.0450 U		0.140 U	0.0470 U	0.0380 U	0.0550 U
TES-3-0-1	'0-1	12/4/2006		0.0380 U	0.0660 U	0.0300 U	0.0380 U		0.120 U	0.140 J	0.0320 U	0.0460 U
TES-4-0-1	'0-1	12/5/2006		0.0450 U	0.0780 U	0.0360 U	0.0450 U		0.140 U	0.0480 U	0.0380 U	0.0550 U
TLN-1 .5-2	'0.5-2	8/20/2001	0.180 JNB	0.00590 U	0.00590 U	0.00590 U	0.00590 U		0.00590 U	0.0158	0.00590 U	0.00590 U
TLN-1 0-.5	'0-0.5	8/20/2001	2.00 JNB	0.00560 U	0.00560 U	0.00560 U	0.00560 U		0.00560 U	0.0128	0.00560 U	0.00560 U
TLN-2-0-0.5	'0-0.5	7/19/2001		0.00760 U	0.00760 U	0.00760 U	0.00760 U		0.00760 U	0.00260 J	0.00760 U	0.00760 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001		0.00580 U	0.00580 U	0.00230 J	0.00580 U		0.00580 U	0.00120 J	0.00580 U	0.00280 J
TLN-3-2-4	'2-4	7/17/2001		0.00500 U	0.00500 U	0.00500 U	0.00500 U		0.00500 U	0.00250 J	0.00500 U	0.00500 U
TLN-4 0-.5	'0-0.5	8/20/2001	0.930 JNB	0.00540 U	0.00540 U	0.00540 U	0.00540 U		0.00540 U	0.00540 U	0.00540 U	0.00540 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.330 JNB	0.00480 U	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.00480 U	0.00480 U	0.00480 U
TLN-5 .5-2	'0.5-2	8/20/2001	10.0 JNB	0.0120 U	0.0120 U	0.0120 U	0.0120 U		0.0120 U	0.0120 U	0.0120 U	0.0120 U
TLN-5 0-.5	'0-0.5	8/20/2001	0.400 JNB	0.00660 U	0.00660 U	0.00660 U	0.00660 U		0.00660 U	0.00660 U	0.00660 U	0.00660 U
TLN-5-4-6	'4-6	8/30/2001		0.00510 U	0.00510 U	0.00510 U	0.00510 U		0.00510 U	0.00510 U	0.00510 U	0.00510 U
TLN-6 0-.5	'0-0.5	8/20/2001	2.00 JNB	0.00480 U	0.00480 U	0.00480 U	0.00480 U		0.00480 U	0.00480 U	0.00480 U	0.00480 U
TLS-10 0-.5	'0-0.5	8/21/2001	1.10 JNB	0.520 U	0.520 U	0.520 U	0.520 U		0.520 U	0.520 U	0.520 U	0.520 U
TLS-10 8-10	'8-10	8/21/2001	1.00 JNB	0.620 U	0.620 U	0.620 U	0.620 U		0.620 U	1.78	0.620 U	0.620 U
TLS-1-0-0.5	'0-0.5	9/5/2001	0.730 JNB	0.0120 U	0.0120 U	0.0120 U	0.0120 U		0.0120 U	0.0120 U	0.0120 U	0.0120 U
TLS-11-0-0.5	'0-0.5	9/7/2001	2.20 JNB	0.00700 J	0.00700 U	0.00700 U	0.00700 U		0.00700 U	0.0814	0.00700 U	0.00700 U
TLS-2-0-0.5	'0-0.5	9/7/2001		0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.00860	0.00520 U	0.00520 U
TLS-2-6-8	'6-8	9/7/2001	14.0 JNB	0.0283	0.0180 U	0.0180 U	0.0180 U		0.0180 U	0.0501	0.0180 U	0.0180 U
TLS-3 0-.5	'0-0.5	8/21/2001	0.960 JNB	0.460 U	0.460 U	0.460 U	0.460 U		0.460 U	0.788	0.460 U	0.460 U
TLS-4-0-0.5	'0-0.5	9/7/2001	2.40 JNB	0.00520 U	0.00520 U	0.00520 U	0.00520 U		0.00520 U	0.0274	0.00520 U	0.00520 U
TLS-4-8-10	'8-10	9/7/2001		0.0381	0.0100 U	0.0100 U	0.0100 U		0.0100 U	0.0785	0.0100 U	0.0100 U
TLS-5 0-0.5	'0-0.5	8/21/2001		0.00530 U	0.00530 U	0.00530 U	0.00530 U		0.00530 U	0.00530 U	0.00530 U	0.00530 U
TLS-5-8-10	'8-10	9/26/2001	1.30 JNB	0.00980 U	0.00980 U	0.00980 U	0.00980 U		0.00980 U	0.0764	0.00980 U	0.00980 U
TLS-6 0-.5	'0-0.5	8/21/2001	1.10 JNB	0.470 U	0.470 U	0.470 U	0.470 U		0.470 U	0.114 J	0.470 U	0.470 U
TLS-6-3-5	'3-5	9/26/2001	0.910 JNB	0.00240 J	0.00530 U	0.00530 U	0.00530 U		0.00530 U	0.00530 U	0.00530 U	0.00530 U
TLS-7 0-.5	'0-0.5	8/21/2001	1.40 JNB	0.550 U	0.550 U	0.550 U	0.550 U		0.550 U	2.98	0.550 U	0.550 U
TLS-8-0-0.5	'0-0.5	9/7/2001		0.00570 U	0.00570 U	0.00570 U	0.00570 U		0.00570 U	0.0419	0.00570 U	0.00570 U
TLS-8-6-8	'6-8	9/7/2001	8.50 JNB	0.0110 U	0.0110 U	0.0110 U	0.0110 U		0.0110 U	0.0110 U	0.0110 U	0.0110 U
TLS-9 0-.5	'0-0.5	8/21/2001	1.10 JNB	0.450 U	0.450 U	0.450 U	0.450 U		0.450 U	0.579	0.450 U	0.450 U
TP-105	'0-0	6/8/2007		0.0210 U	0.0180 U	0.0400 U	0.0150 U		0.0370 U	0.0290 U	0.0380 U	0.0140 U
TP-105A	'0-0	6/8/2007		0.0180 U	0.0150 U	0.0340 U	0.0130 U		0.0320 U	0.0240 U	0.0320 U	0.0120 U
TP-106-A	'0-0	6/8/2007		0.0210 U	0.0180 U	0.0410 U	0.0150 U		0.0380 U	0.0290 U	0.0390 U	0.0140 U
TP-106-B	'0-0	6/8/2007		0.0140 U	0.0120 U	0.0260 U	0.0100 U		0.0250 U	0.0190 U	0.0250 U	0.00910 U
WWT-1-0-0.5	'0-0.5	7/19/2001		0.00740 U	0.00740 U	0.00740 U	0.00740 U		0.00740 U	0.00740 U	0.00740 U	0.00740 U
WWT-101-15-17	'15-17	11/6/2006		0.125 J	0.0640 U	0.0290 U	0.0370 U		0.120 U	0.0390 U	0.0310 U	0.0450 U
WWT-101-21-23	'21-23	11/6/2006		0.0310 U	0.0540 U	0.0240 U	0.0310 U		0.0980 U	0.0330 U	0.0260 U	0.0380 U
WWT-1-12-14	'12-14	8/23/2001		0.00640 U	0.00640 U	3.35 J	0.00640 U		0.00640 U	0.00640 U	0.00640 U	0.0127

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloro-difluoromethane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloro-methane mg/kg	Cis-1,2-Dichloroethene mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001	0.610 JNB	0.00580 U	0.00580 U	0.00580 U	0.00580 U		0.00580 U	0.00580 U	0.00580 U	0.00580 U
WWT-2-12-14	'12-14	8/23/2001	0.920 JNB	0.00920 U	0.00920 U	20.2	0.00920 U		0.00920 U	0.00920 U	0.0364	0.00920 U
WWT-3-0-0.5	'0-0.5	8/23/2001		0.00640 U	0.00640 U	0.00640 U	0.00640 U		0.00640 U	0.00640 U	0.00640 U	0.00640 U
WWT-3-12-14	'12-14	8/23/2001		0.00550	0.00520 U	0.0141	0.00520 U		0.00520 U	0.00520 U	0.00520 U	0.00420 J

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
SRS			6		0_2		230000					
12K-B1-0.5-2	'0.5-2	9/6/2001	0.00480 U									
12K-B1-0-0.5	'0-0.5	9/6/2001	0.00540 U									
12K-B2-0.5-2	'0.5-2	9/6/2001	0.00460 U									
12K-B2-0-0.5	'0-0.5	9/6/2001	0.00500 U									
150K-1-0.5-2	'0.5-2	9/10/2001	0.00420 U									
150K-1-0-0.5	'0-0.5	9/10/2001	0.00450 U									
230-B1-0.5	'0-0.5	10/2/2001	0.00540 U									
230-B10-0-0.5	'0-0.5	8/30/2001	0.0310 U									
230-B10-1.5-2	'1.5-2	8/30/2001	0.00650 U									
230-B11-0-0.5	'0-0.5	8/30/2001	0.00540 U									
230-B11-1.5-2	'1.5-2	8/30/2001	0.00660 U									
230-B1-4-6	'4-6	10/2/2001	3.00 U									
230-B2-0-0.5	'0-0.5	8/30/2001	0.00540 U									
230-B2-1.5-2	'1.5-2	8/30/2001	0.00440 U									
230-B3-0-0.5	'0-0.5	8/30/2001	0.00700 U									
230-B3-1.5-2	'1.5-2	8/30/2001	0.00480 U									
230-B4-0-0.5	'0-0.5	8/30/2001	0.00500 U									
230-B4-1.5-2	'1.5-2	8/30/2001	0.00580 U									
230-B5-0-0.5	'0-0.5	9/13/2001	0.00580 U	0.0150 JN								
230-B5-1.5-2	'1.5-2	9/13/2001	0.00610 U									
230-B6 0-0.5	'0-0.5	8/22/2001	0.00500 U									
230-B6 1.5-2	'1.5-2	8/22/2001	0.00490 U									
230-B7 0-0.5	'0-0.5	8/22/2001	0.00760 U									
230-B7 1.5-2	'1.5-2	8/22/2001	0.00520 U									
230-B8 1.5-2	'1.5-2	8/22/2001	0.00640 U									
230-B9 0-0.5	'0-0.5	8/22/2001	0.00560 U									
230-B9 0-0.5	'0-0.5	8/22/2001	0.00510 U									
230-B9 1.5-2	'1.5-2	8/22/2001	0.00520 U									
231-B1-0-0.5	'0-0.5	10/5/2001	0.00620 U									
231-B10-0-0.5	'0-0.5	9/17/2001	0.00960 U									
231-B11-0-0.5	'0-0.5	9/19/2001	0.00600 U									
231-B11-8-10	'8-10	9/19/2001	0.00920 U					0.0370 JN				

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001	0.00700 U									
231-B13-0-0.5	'0-0.5	9/19/2001	0.0140 U									
231-B13-8-10	'9-10	9/27/2001	12.0 U									
231-B14-0-0.5	'0-0.5	9/19/2001	0.00520 U	0.00670 JN								
231-B2-0.5-2	'0.5-2	8/22/2001	0.00560 U									
231-B2-0-0.5	'0-0.5	8/22/2001	0.00580 U									
231-B3-0-0.5	'0-0.5	8/22/2001	0.00580 U									
231-B4-0-0.5	'0-0.5	8/30/2001	0.00870 U									
231-B4-6-8	'6-8	9/27/2001	0.00520 U									
231-B5-0.5-2	'0.5-2	9/19/2001	0.00540 U									
231-B6-0-0.5	'0-0.5	9/27/2001	0.00540 U					0.120 JN				0.0180 JN
231-B6-4-6	'4-6	9/27/2001	0.0140 U									
231-B7-0-0.5	'0-0.5	9/13/2001	0.00570 U					0.250 JN				
231-B8-0-0.5	'0-0.5	9/27/2001	0.0270 UJ									
231-B8-8-10	'8-10	9/27/2001	4.80 U									
231-B9-0.5-2	'0.5-2	9/27/2001	0.00860 U									
231-B9-0-0.5	'0-0.5	9/27/2001	0.00800 U									
240-1-0-0.5	'0-0.5	9/26/2001	0.00520 U									
240-1-8-10	'8-10	10/1/2001	0.00600 U									
5K-B1-0-0.5	'0-0.5	10/1/2001	0.00540 U									
5K-B2-0-0.5	'0-0.5	8/31/2001	0.00710 U									
5K-B2-8-10	'8-10	8/31/2001	0.00480 U									
5K-B3-0-0.5	'0-0.5	9/26/2001	0.00570 U									
5K-B4-0-0.5	'0-0.5	10/1/2001	0.00650 U									
5K-B4-4-6	'4-6	10/1/2001	0.310 U									
5K-B5-0-0.5	'0-0.5	8/31/2001	0.00550 U									
5K-B5-4-6	'4-6	9/26/2001	0.00510 U									
AB-1-0-0.5	'0-0.5	9/4/2001	0.0210 U									
AB-2-0.5-2	'0.5-2	9/4/2001	0.00760 U									
AB-2-0-0.5	'0-0.5	9/4/2001	0.00500 U									
ADN-1-0-0.5	'0-0.5	9/5/2001	0.00470 U									
ADN-1-8-10	'8-10	9/5/2001	0.880 U									
ADN-2-0-0.5	'0-0.5	9/5/2001	0.00480 U									

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
ADN-2-10-11	'10-11	9/27/2001	0.00520 U									
ADS-1-0-.5	'0-0.5	7/17/2001	0.00760 U									
ADS-10-0-0.5	'0-2	7/18/2001	0.00590 U									
ADS-101-0-1	'0-1	12/5/2006	0.0240 U	0.0740 U	0.120 U		0.0460 U					
ADS-101-1-3	'1-3	12/5/2006	0.0190 U	0.0600 U	0.100 U		0.0370 U					
ADS-102-0-1.5	'0-2	12/5/2006	0.0200 U	0.0630 U	0.110 U		0.0390 U					
ADS-102-7-8	'4-8	12/6/2006	0.0240 U	0.0750 U	0.130 U		0.0460 U					
ADS-10-4-6	'4-6	7/18/2001	0.0120 U									
ADS-11-0-0.5	'0-2	7/18/2001	0.00620 U									
ADS-12-0.5-2	'0.5-2	7/18/2001	0.00560 U									
ADS-12-0-0.5	'0-0.5	7/18/2001	0.00820 U									
ADS-2-0-0.5	'0-0.5	7/18/2001	0.00610 U									
ADS-2-4-6	'4-6	7/18/2001	0.00490 U									
ADS-3-0-0.5	'0-0.5	7/18/2001	0.00570 U									
ADS-4-0-0.5	'0-2	7/18/2001	0.00600 U									
ADS-4-12-14	'12-14	7/18/2001	0.00880 U									
ADS-5-0-0.5	'0-0.5	7/18/2001	0.00530 U									
ADS-5-4-6	'4-6	9/27/2001	0.00500 U									
ADS-6-0.5-2	'0.5-2	7/18/2001	0.00560 U									
ADS-6-0-0.5	'0-0.5	7/18/2001	0.00480 U									
ADS-7-0-.5	'0-0.5	7/17/2001	0.00520 U									
ADS-8-0-0.5	'0-0.5	7/18/2001	0.00960 U									
ADS-8-4-6	'4-6	7/18/2001	0.00910 U									
ADS-9-0-0.5	'0-0.5	7/18/2001	0.00930 U									
BLIND DUP	'0-0	8/21/2001	0.00620 U									
BSL-10-0-1	'0-1	9/21/2001	0.00700 U									
BSL-1-0-1	'0-1	9/20/2001	0.00580 U									
BSL-11-0-1	'0-1	9/26/2001	0.00580 U									
BSL-12-0-1	'0-1	9/26/2001	0.00520 U									
BSL-1-4-6	'4-6	9/20/2001	0.00720 U									
BSL-2-0-1	'0-1	9/21/2001	0.00760 U									
BSL-3-0-0.5	'0-0.5	9/20/2001	0.00520 U									
BSL-4-0-1	'0-0.5	9/21/2001	0.00720 U									

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
BSL-4-4-6	'4-6	9/21/2001	0.0120 U									
BSL-5-0-.5	'0-0.5	9/21/2001	0.00520 U									
BSL-6-0-1	'0-1	9/26/2001	0.00720 U							0.0240 JN		
BSL-6-1-2	'1-2	9/26/2001	0.0180 U									
BSL-7-0-.5	'0-0.5	9/21/2001	0.00640 U									
BSL-8-0-1	'0-1	9/26/2001	0.00940 U									
BSL-9-.5-2	'0.5-2	9/21/2001	0.0100 U									
BSL-9-0-.5	'0-0.5	9/21/2001	0.00570 U									
BT-B1-0-0.5	'0-0.5	9/18/2001	0.00560 U									
BT-B2-0.5-2	'0.5-2	9/18/2001	0.00420 U									
BT-B2-0-0.5	'0-0.5	9/18/2001	0.00460 U									
BT-B3-0-0.5	'0-0.5	9/18/2001	0.00580 U									
BT-B4-0.5-2	'0.5-2	8/30/2001	0.00490 U									
BT-B4-0-0.5	'0-0.5	8/30/2001	0.00660 U									
BT-B5-0-.5	'0-0.5	10/2/2001	0.00540 U									
BT-B6-0.5-2	'0.5-2	9/17/2001	0.00950 U									
BT-B6-0-0.5	'0-0.5	9/17/2001	0.00700 U									
CF-1-0-0.5	'0-0.5	8/31/2001	0.00480 U									
CF-1-2-4	'2-4	8/31/2001	0.00800 U									
CF-2-0-0.5	'0-0.5	8/28/2001	0.00650 U									
CF-3-0.5-2	'0.5-2	8/28/2001	0.0120 U									
CF-3-0-0.5	'0-0.5	8/28/2001	0.00900 U									
CF-4-0-0.5	'0-0.5	8/28/2001	0.00640 U									
CF-5-0-0.5	'0-0.5	8/28/2001	0.00570 U									
CF-5-4-6	'4-6	8/28/2001	0.00500 U									
CF-6-0-0.5	'0-0.5	8/28/2001	0.00520 U									
CF-7-0-0.5	'0-0.5	8/28/2001	0.00520 U									
CF-7-4-6	'4-6	8/28/2001	0.00600 U									
CF-8-0-0.5	'0-0.5	8/28/2001	0.00540 U									
CF-9-0.5-2	'0.5-2	8/31/2001	0.00710 U									
CF-9-0-0.5	'0-0.5	8/31/2001	0.00480 U									
DC-B12-0-0.5	'0-0.5	10/3/2001	0.00980 U									
DC-B12-2-4	'2-4	10/3/2001	0.00680 U									

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.00480 U									
DC-SS11-0-0.5	'0-0.5	9/17/2001	0.00430 U									
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.00850 U									
DC-SS15-0-0.5	'0-0.5	9/17/2001	0.00600 U									
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.00550 U									
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.00520 U									
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.00590 U									
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.00780 U									
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.00640 U									
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.00470 U									
DSP-1-0-0.5	'0-0.5	10/3/2001	0.00720 U									
DSP-1-4-6	'4-6	11/19/2001	0.00620 U									
DSP-2-0-0.5	'0-0.5	9/4/2001	0.00580 U									
DSP-3-0-0.5	'0-0.5	9/4/2001	0.00560 U									
DSP-3-2-4	'2-4	9/4/2001	0.00500 U					0.0100 JN				
DSP-4-0-0.5	'0-0.5	9/4/2001	0.00560 U									
DSP-4-4-6	'4-6	9/26/2001	0.00520 U					0.00900 JN				
DUP-01-010824	'0-0.5	8/24/2001	0.00630 U									
DUP-01-010831	'2-4	8/31/2001	0.00880 U									
DUP-01-010904	'0-0.5	9/4/2001	0.00520 U									
DUP-01-010905	'8-10	9/5/2001	0.00530 U								0.00810 JN	
DUP-01-010906	'0-8	9/6/2001	0.00880 U			0.110 JN						
DUP-01-010913	'0-0.5	9/13/2001	0.00910 U									
DUP-01-010917	'0-0.5	9/17/2001	0.00580 U									
DUP-01-010926	'1-2	9/26/2001	0.0120 U									
DUP-01-010927	'4-6	9/27/2001	0.00760 U									
DUP-01-021001	'0-0	10/2/2001	0.00430 U									
DUP-01-08 2201	'1.5-2	8/22/2001	0.00600 U									
DUP-01-121001	'0-0	10/12/2001	0.00700 U									
DUP-01-170402	'0-0	4/17/2002	1.40 U									
DUP-02-010913	'0-0.5	9/13/2001	0.00520 U					0.0820 JN				
DUP-02-010921	'0-1	9/21/2001	0.00630 U									
DUP-02-010926	'4-6	9/26/2001	0.00540 U									

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
DUP060807	'0-0	6/8/2007	0.0320 U	0.0250 U	0.0590 U		0.0260 U					
DUP-1-010828	'0-0.5	8/28/2001	0.00560 U									
DUP-1-010921	'0-0.5	9/21/2001	0.00680 U									
DUP110606	'15-17	11/6/2006	0.0290 U	0.0890 U	0.150 U		0.0550 U					
DUP112006	'16-18	11/20/2006	0.0720 U	0.220 U	0.370 U		0.140 U					
DUP112106	'10-12	11/21/2006	0.0780 U	0.240 U	0.400 U		0.150 U					
DUP-120506	'0-4	12/5/2006	0.0200 U	0.0630 U	0.110 U		0.0390 U					
DUP-120606	'0-4	12/6/2006	0.0190 U	0.0590 U	0.100 U		0.0370 U					
DUPE071801	'0-0.5	7/18/2001	0.00660 U									
EC-1	'0-1	8/21/2001	0.00640 U									
EC-2	'0-1	8/21/2001	0.00850 U									
EC-3	'0-1	8/21/2001	0.00700 U									
EC-4	'0-1	8/21/2001	0.00880 U									
EC-5	'0-1	8/21/2001	0.00510 U									
EC-6	'0-1	8/21/2001	0.00650 U									
EC-7	'0-1	8/21/2001	0.00740 U									
EC-8	'0-1	8/21/2001	0.00670 U									
EC-9	'0-1	8/21/2001	0.00640 U									
ESR-1-0-1	'0-0.5	9/4/2001	0.00560 U									
ESR-1-4-6	'4-6	9/4/2001	0.00570 U									
HB-101A	'17-17	3/5/2007	0.0230 U	0.0700 U	0.120 U		0.0440 U					
HB-102A	'0-0	3/13/2007	0.0640 U	0.200 U	0.330 U		0.120 U					
HB-102B	'0-0	3/14/2007	0.0250 U	0.0780 U	0.130 U		0.0490 U					
HB-102C	'0-0	3/14/2007	0.0220 U	0.0670 U	0.110 U		0.0420 U					
H-B-103A	'17-17	2/20/2007	0.0370 U	0.120 U	0.190 U		0.0710 U					
H-B-104A	'17-17	2/23/2007	0.0270 U	0.0830 U	0.140 U		0.0520 U					
H-B-104B	'17-17	2/23/2007	0.0220 U	0.0690 U	0.120 U		0.0430 U					
H-B-104C	'17-17	2/23/2007	0.0290 U	0.0900 U	0.150 U		0.0560 U					
H-B-104D	'17-17	2/27/2007	0.0240 U	0.0760 U	0.130 U		0.0470 U					
H-B-104E	'17-17	2/27/2007	0.0230 U	0.0700 U	0.120 U		0.0440 U					
H-B-105C	'17-17	2/8/2007	0.0220 U	0.0670 U	0.110 U		0.0420 U					
H-B-105D	'17-17	2/8/2007	0.0250 U	0.0770 U	0.130 U		0.0480 U					
H-B-105E	'0-0	2/8/2007	0.0250 U	0.0790 U	0.130 U		0.0490 U					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
HB-1A	'6.75-6.75	4/18/2002	0.0100 U							0.380 JN		
HB-3A	'5.25-5.25	4/17/2002	1.80 U									
HB-3B	'4.5-4.5	4/17/2002	0.00440 U									
HB-3C	'4.5-4.5	4/18/2002	0.00450 U									
HB-3D	'4.5-4.5	4/18/2002	0.00670 U									
HB-4A	'5.33-5.33	4/19/2002	0.00510 U									
HB-5A	'3-3	4/22/2002	0.00510 U									
HB-7A	'5-5	4/19/2002	0.00600 U									
HB-8A	'3-3	4/23/2002	0.00680 U									
HB-8B	'4.83-4.83	4/23/2002	0.00720 U									
HB-8C	'5.5-5.5	4/23/2002	0.00620 U									
HB-9A	'4.75-4.75	4/24/2002	0.00560 U									
HF-B1-0-0.5	'0-0.5	9/10/2001	0.0120 U									
HF-B1-8-10	'8-10	9/10/2001	0.00400 U									
HF-B2-0-0.5	'0-0.5	9/4/2001	0.00480 U									
HF-B2-4-6	'4-6	9/4/2001	0.00600 U									
HF-B3-0-.5	'0-0.5	10/2/2001	0.00610 U									
HF-B3-8-10	'8-10	10/2/2001	0.00680 U									
IB-1-0-2	'0-2	4/8/2002	0.00590 U									
IB-1-4-6	'4-6	4/8/2002	0.00600 U									
IB-2-12-14	'12-14	4/8/2002	0.00580 U									
IB-2-4-6	'4-6	4/8/2002	0.00510 U									
IB-3-4-6	'4-6	4/8/2002	0.00560 U									
IB-3-8-10	'8-10	4/8/2002	0.00880 U									
LB-101-0-1	'0-1	12/6/2006	0.0220 U	0.0690 U	0.120 U		0.0430 U					
LB-101-1-3	'1-3	12/6/2006	0.0180 U	0.0550 U	0.0930 U		0.0340 U					
LB-102-0-1	'0-3	12/6/2006	0.0240 U	0.0750 U	0.130 U		0.0470 U					
LB-102-1-3	'3-7	12/6/2006	0.0200 U	0.0620 U	0.100 U		0.0390 U					
LB-103-0-1	'0-1	12/6/2006	0.0230 U	0.0720 U	0.120 U		0.0450 U					
LB-103-5-7	'5-7	12/6/2006	0.0300 U	0.0930 U	0.160 U		0.0570 U					
LHP-101-0-1	'0-1	12/4/2006	0.0270 U	0.0830 U	0.140 U		0.0520 U					
LHP-101-5-8	'4-8	12/4/2006	0.0480 U	0.150 U	0.250 U		0.0920 U					
LHP-102-0-1	'0-1	12/5/2006	0.0280 U	0.0870 U	0.150 U		0.0540 U					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
LHP-102-7-9	'7-9	12/5/2006	0.000550 U	0.00170 U	0.00290 U		0.00110 U					
LHP-102-7-9	'7-9	12/6/2006	0.0440 U	0.140 U	0.230 U		0.0850 U					
LHP-103-0-1	'0-1	12/5/2006	0.0240 U	0.0730 U	0.120 U		0.0450 U					
LHP-103-1-3	'1-3	12/5/2006	0.0260 U	0.0800 U	0.130 U		0.0500 U					
LHP-104-0-1	'0-1	12/5/2006	0.0230 U	0.0700 U	0.120 U		0.0430 U					
LHP-104-7-9	'4-8	12/5/2006	0.0340 U	0.110 U	0.180 U		0.0660 U					
LHP-105-0-1	'0-1	12/5/2006	0.0210 U	0.0640 U	0.110 U		0.0400 U					
LHP-105-1-3	'1-3	12/5/2006	0.0260 U	0.0810 U	0.140 U		0.0500 U					
LHP-106-0-1	'0-1	12/4/2006	0.0200 U	0.0620 U	0.100 U		0.0380 U					
LHP-106-1-3	'1-3	12/4/2006	0.0290 U	0.0900 U	0.150 U		0.0560 U					
LHP-107-0-1	'0-1	12/5/2006	0.0190 U	0.0590 U	0.100 U		0.0370 U					
LHP-107-5-7	'4-8	12/5/2006	0.0240 U	0.0730 U	0.120 U		0.0450 U					
LHP-108-0-1	'0-1	12/6/2006	0.0250 U	0.0760 U	0.130 U		0.0470 U					
LHP-108-3-7	'3-7	12/6/2006	0.0250 U	0.0780 U	0.130 U		0.0480 U					
LHP-109-0-1	'0-1	12/6/2006	0.0250 U	0.0780 U	0.130 U		0.0480 U					
LHP-109-7-9	'7-9	12/6/2006	0.0400 U	0.120 U	0.210 U		0.0770 U					
LHP-110-0-1	'0-1	12/4/2006	0.0430 U	0.130 U	0.220 U		0.0830 U					
LHP-111-0-1	'0-1	12/4/2006	0.0200 U	0.0630 U	0.110 U		0.0390 U					
LHP-112-0-1	'0-1	12/4/2006	0.0210 U	0.0660 U	0.110 U		0.0410 U					
LHP-113-0-1	'0-1	12/4/2006	0.0200 U	0.0620 U	0.100 U		0.0390 U					
LHP-114-0-1	'0-1	12/4/2006	0.0200 U	0.0610 U	0.100 U		0.0380 U					
LHP-115-0-1	'0-1	12/4/2006	0.0190 U	0.0600 U	0.100 U		0.0370 U					
LHP-116-0-1	'0-1	12/4/2006	0.0220 U	0.0670 U	0.110 U		0.0410 U					
LHP-117-0-1	'0-1	12/4/2006	0.0230 U	0.0710 U	0.120 U		0.0440 U					
LHP-118-0-1	'0-1	12/4/2006	0.0290 U	0.0900 U	0.150 U		0.0560 U					
LHP-119-0-1	'0-1	12/4/2006	0.0280 U	0.0870 U	0.150 U		0.0540 U					
LHP-120-0-1	'0-1	12/4/2006	0.0380 U	0.120 U	0.200 U		0.0730 U					
LHP-121-0-1	'0-1	12/6/2006	0.0280 U	0.0860 U	0.140 U		0.0540 U					
LHP-122-0-1	'0-1	12/6/2006	0.0220 U	0.0690 U	0.120 U		0.0430 U					
LHP-123-0-1	'0-1	12/4/2006	0.0250 U	0.0760 U	0.130 U		0.0470 U					
LHP-124-.5-2	'0.5-2	10/27/2006	0.0320 U	0.0990 U	0.170 U		0.0610 U					
LHP-124-2-4	'2-4	10/27/2006	0.0230 U	0.0710 U	0.120 U		0.0440 U					
LHP-124-28-30	'28-30	10/31/2006	0.0320 U	0.0970 U	0.160 U		0.0600 U					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006	0.0250 U	0.0790 U	0.130 U		0.0490 U					
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0300 U	0.0930 U	0.160 U		0.0570 U					
LHP-125-12-14	'12-14	11/1/2006	0.0230 U	0.0720 U	0.120 U		0.0450 U					
LHP-125-4-6	'4-6	10/27/2006	0.0270 U	0.0830 U	0.140 U		0.0510 U					
LHP-126-10.5-12	'10.5-12	11/1/2006	0.200 UJ	0.620 UJ	1.00 UJ		0.380 UJ					
LHP-126-14-16	'14-16	11/1/2006	0.0250 U	0.0760 U	0.130 U		0.0470 U					
LHP-126-2-4	'2-4	10/26/2006	0.0260 U	0.0790 U	0.130 U		0.0490 U					
LHP-126-8-10	'9-10	10/26/2006	0.0380 U	0.120 U	0.200 U		0.0720 U					
LHP-127-0-1	'0-1	12/6/2006	0.0290 U	0.0900 U	0.150 U		0.0560 U					
LHP-127-3-5	'3-5	12/6/2006	0.0220 U	0.0690 U	0.120 U		0.0430 U					
LHP-128-0-1	'0-4	12/6/2006	0.0190 U	0.0580 U	0.0980 U		0.0360 U					
LHP-128-7-8	'17-17	12/6/2006	0.0400 U	0.120 U	0.210 U		0.0770 U					
LP-1-0-0.5	'0-0.5	8/27/2001	0.00620 U									
LP-10-0.5-2	'0.5-2	8/27/2001	0.00510 U									
LP-10-0-0.5	'0-0.5	8/27/2001	0.00620 U									
LP-101-11-13	'11-13	11/2/2006	0.0710 U	0.220 U	0.370 U		0.140 U					
LP-101-14-16	'14-16	11/2/2006	0.0640 U	0.200 U	0.330 U		0.120 U					
LP-101-26-28	'26-28	11/2/2006	0.0230 U	0.0710 U	0.120 U		0.0440 U					
LP-101-50-52	'50-52	11/2/2006	0.0230 U	0.0720 U	0.120 U		0.0450 U					
LP-11-0-0.5	'0-0.5	8/27/2001	0.00670 U									
LP-12-0-0.5	'0-0.5	8/27/2001	0.00720 U									
LP-12-4-6	'4-6	8/27/2001	0.00580 U									
LP-13-0-0.5	'0-0.5	8/24/2001	0.00500 U									
LP-14-0.5-2	'0.5-2	8/24/2001	0.00540 U									
LP-14-0-0.5	'0-0.5	8/24/2001	0.00640 U									
LP-15-0-0.5	'0-0.5	8/24/2001	0.00680 U									
LP-16-0.5-2	'0.5-2	8/27/2001	0.00440 U									
LP-16-0-0.5	'0-0.5	8/27/2001	0.00730 U									
LP-2-0.5-2	'0.5-2	8/28/2001	0.00480 U									
LP-2-0-0.5	'0-0.5	8/28/2001	0.00690 U									
LP-3-0-0.5	'0-0.5	8/27/2001	0.00570 U									
LP-4 .5-2	'0.5-2	8/21/2001	0.640 U									
LP-4 0-.5	'0-0.5	8/21/2001	0.580 U									

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001	0.00620 U									
LP-6-0-0.5	'0-0.5	8/27/2001	0.00640 U									
LP-6-4-6	'4-6	8/27/2001	0.00660 U									
LP-7-0-0.5	'0-0.5	8/24/2001	0.00500 U									
LP-8-0-0.5	'0-0.5	8/24/2001	0.00620 U									
LP-8-10-12	'10-12	8/24/2001	0.0120 U									
LP-9-0-0.5	'0-0.5	8/24/2001	0.00700 U									
MW-11D-12-14	'12-14	12/14/2006	0.0790 U	0.250 U	0.410 U		0.150 U					
MW-11D-14-16	'14-16	12/14/2006	0.0280 U	0.0870 U	0.150 U		0.0540 U					
MW-11D-16-18	'16-18	12/14/2006	0.0260 U	0.0820 U	0.140 U		0.0510 U					
MW-14D-13-15	'13-15	11/14/2006	0.0310 U	0.0950 U	0.160 U		0.0590 U					
MW-14D-17-19	'17-19	11/14/2006	0.0250 U	0.0770 U	0.130 U		0.0480 U					
MW-16D-13-15	'13-15	11/17/2006	0.0220 U	0.0680 U	0.110 U		0.0420 U					
MW-16D-17-19	'17-19	11/20/2006	0.0220 U	0.0670 U	0.110 U		0.0410 U					
MW-17D-15-17	'15-17	11/10/2006	0.0290 U	0.0900 U	0.150 U		0.0560 U					
MW-17D-17-19	'17-19	11/10/2006	0.0220 U	0.0690 U	0.120 U		0.0430 U					
MW-18D-13-15	'13-15	11/13/2006	0.0340 U	0.100 U	0.180 U		0.0650 U					
MW-18D-17-19	'17-19	11/13/2006	0.0230 U	0.0710 U	0.120 U		0.0440 U					
MW-20D-12-14	'12-14	11/9/2006	0.0350 U	0.110 U	0.180 U		0.0680 U					
MW-20D-32-34	'32-32.9	11/10/2006	0.0210 U	0.0640 U	0.110 U		0.0400 U					
MW-20D-36-38	'36-38	11/10/2006	0.0250 U	0.0780 U	0.130 U		0.0480 U					
MW-21D-13-15	'13-13.7	11/16/2006	0.0340 U	0.100 U	0.180 U		0.0650 U					
MW-21D-15-17	'15-17	11/16/2006	0.0240 U	0.0730 U	0.120 U		0.0450 U					
MW-23D-15-17	'15-16	11/15/2006	0.0310 U	0.0960 U	0.160 U		0.0590 U					
MW-23D-37-39	'37-37.9	11/15/2006	0.0290 U	0.0910 U	0.150 U		0.0560 U					
MW-25D-10-12	'10-12	11/21/2006	0.0770 U	0.240 U	0.400 U		0.150 U					
MW-25D-33-35	'33-35	12/18/2006	0.0280 U	0.0860 U	0.140 U		0.0530 U					
MW-26S-8-10	'8-10	10/26/2006	0.0310 U	0.0950 U	0.160 U		0.0590 U					
MW-6D-0-2	'0-2	11/8/2006	0.0230 U	0.0700 U	0.120 U		0.0430 U					
MW-6D-12-14	'12-14	11/8/2006	0.100 U	0.310 U	0.530 U		0.190 U					
MW-6D-16-18	'16-18	11/20/2006	0.0640 U	0.200 U	0.330 U		0.120 U					
MW-6D-30-32	'30-32	11/21/2006	0.0300 U	0.0920 U	0.150 U		0.0570 U					
PCA-1-0-.5	'0-2	7/17/2001	0.0390 U									

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
PCA-1-4-6	'4-6	7/17/2001	0.00700 U									
PCA-2-0-.5	'0-0.5	7/17/2001	0.00490 U									
PCA-3-0-0.5	'0-0.5	9/13/2001	0.00600 U									
PCA-3-4-6	'4-6	9/13/2001	0.0100 U									
PCA-4-0-0.5	'0-0.5	9/13/2001	0.00560 U									
PCA-4-4-6	'4-6	9/26/2001	0.00770 U									
PCA-5-0.5-2	'0.5-2	9/7/2001	0.00430 U									
PCA-5-0-0.5	'0-0.5	9/7/2001	0.00520 U									
PCA-6-0-0.5	'0-0.5	9/7/2001	0.00630 U									
RR-1 0-0.5	'0-0.5	8/22/2001	0.00480 U									
RR-1 14-16	'14-16	8/22/2001	0.290 U									
RR-10 0-.5	'0-0.5	10/12/2001	0.00640 U									
RR-11 0-.5	'0-0.5	10/12/2001	0.00630 U									
RR-12 0-.5	'0-0.5	10/12/2001	0.00520 U									
RR-2-0-0.5	'0-0.5	9/13/2001	0.00500 U									
RR-2-8-10	'8-10	9/13/2001	0.00730 U									
RR-3-0-0.5	'0-0.5	9/13/2001	0.00560 U									
RR-4-0-0.5	'0-0.5	9/10/2001	0.00820 U									
RR-4-6-8	'6-8	9/13/2001	0.0100 U									
RR-5-0-0.5	'0-0.5	9/10/2001	0.00720 U									
RR-6-0-0.5	'0-0.5	9/10/2001	0.00630 U									
RR-6-8-10	'8-10	9/10/2001	0.00400 U									
RR-7-0-0.5	'0-0.5	9/10/2001	0.00510 U					0.0110 JN				
RR-8-0-0.5	'0-0.5	9/26/2001	0.00740 U									
RR-8-6-8	'6-8	9/26/2001	0.0240 U									
RR-9 0-.5	'0-0.5	10/12/2001	0.00660 U									
SC-1	'0-1	8/21/2001	0.00760 U									
SC-2	'0-1	8/22/2001	0.00660 U									
SC-3	'0-1	8/22/2001	0.00690 U									
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.00530 U									
SILO-B1-6-8	'6-8	9/6/2001	0.0210 U			0.260 JN						
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.00520 U									
SILO-B3-0-0.5	'0-0.5	9/6/2001	0.00500 U									

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
SILO-B3-6-8	'6-8	9/6/2001	0.00480 U									
SILO-B4-0-0.5	'0-0.5	9/6/2001	0.00800 U									
SPR-1-0-0.5	'0-0.5	9/5/2001	0.00570 U									
SPR-1-8-10	'8-10	9/5/2001	0.0120 U									
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.00900 U									
SPR-2A-8-10	'8-10	7/19/2001	0.980 U									
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.0120 U									
SPR-2B-10-12	'10-12	7/19/2001	1.10 U									
SPR-3 0-.5	'0-0.5	8/21/2001	0.430 U									
SPR-3 4-6	'4-6	8/21/2001	0.540 U									
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.00500 U									
SPR-4A-8-10	'8-10	7/19/2001	1.10 U									
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.00660 U									
SPR-4B-4-6	'4-6	8/23/2001	0.00770 U									
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.00580 U									
SPR-4C-4-6	'4-6	8/23/2001	0.360 U									
SPR-5-0-0.5	'0-0.5	9/5/2001	0.00600 U									
SPR-5-2-4	'2-4	9/5/2001	0.00820 U									
SPR-6-0.5-2	'0.5-2	9/13/2001	0.00580 U									
SPR-6-0-0.5	'0-0.5	9/13/2001	0.00530 U									
SR-1-0-.5	'0-0.5	7/17/2001	0.00580 U									
SR-2-0-.5	'0-0.5	7/17/2001	0.00670 U									
ST-1-0-0.5	'0-0.5	9/5/2001	0.00500 U									
ST-2-0-0.5	'0-0.5	9/5/2001	0.00480 U									
ST-3-0-0.5	'0-0.5	9/4/2001	0.00590 U									
ST-3-4-6	'4-6	9/4/2001	0.00770 U									
TES-1-0-1	'0-1	12/5/2006	0.0290 U									
TES-2-0-1	'0-1	12/4/2006	0.0340 U	0.100 U	0.170 U		0.0650 U					
TES-3-0-1	'0-1	12/4/2006	0.0290 U	0.0890 U	0.150 U		0.0550 U					
TES-4-0-1	'0-1	12/5/2006	0.0340 U									
TLN-1 .5-2	'0.5-2	8/20/2001	0.00590 U									
TLN-1 0-.5	'0-0.5	8/20/2001	0.00560 U									
TLN-2-0-0.5	'0-0.5	7/19/2001	0.00760 U									

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001	0.00580 U									
TLN-3-2-4	'2-4	7/17/2001	0.00500 U									
TLN-4 0-.5	'0-0.5	8/20/2001	0.00540 U									
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.00480 U									
TLN-5 .5-2	'0.5-2	8/20/2001	0.0120 U									
TLN-5 0-.5	'0-0.5	8/20/2001	0.00660 U									
TLN-5-4-6	'4-6	8/30/2001	0.00510 U									
TLN-6 0-.5	'0-0.5	8/20/2001	0.00480 U									
TLS-10 0-.5	'0-0.5	8/21/2001	0.520 U									
TLS-10 8-10	'8-10	8/21/2001	0.620 U									
TLS-1-0-0.5	'0-0.5	9/5/2001	0.0120 U									
TLS-11-0-0.5	'0-0.5	9/7/2001	0.00700 U									
TLS-2-0-0.5	'0-0.5	9/7/2001	0.00520 U									
TLS-2-6-8	'6-8	9/7/2001	0.0180 U						0.0210 JN			
TLS-3 0-.5	'0-0.5	8/21/2001	0.460 U									
TLS-4-0-0.5	'0-0.5	9/7/2001	0.00520 U									
TLS-4-8-10	'8-10	9/7/2001	0.0100 U									
TLS-5 0-0.5	'0-0.5	8/21/2001	0.00530 U									
TLS-5-8-10	'8-10	9/26/2001	0.00980 U									
TLS-6 0-.5	'0-0.5	8/21/2001	0.470 U									
TLS-6-3-5	'3-5	9/26/2001	0.00530 U									
TLS-7 0-.5	'0-0.5	8/21/2001	0.550 U									
TLS-8-0-0.5	'0-0.5	9/7/2001	0.00570 U									
TLS-8-6-8	'6-8	9/7/2001	0.0110 U									
TLS-9 0-.5	'0-0.5	8/21/2001	0.450 U									
TP-105	'0-0	6/8/2007	0.0360 U	0.0280 U	0.0670 U		0.0290 U					
TP-105A	'0-0	6/8/2007	0.0310 U	0.0240 U	0.0570 U		0.0250 U					
TP-106-A	'0-0	6/8/2007	0.0370 U	0.0290 U	0.0690 U		0.0300 U					
TP-106-B	'0-0	6/8/2007	0.0240 U	0.0190 U	0.0440 U		0.0190 U					
WWT-1-0-0.5	'0-0.5	7/19/2001	0.00740 U									
WWT-101-15-17	'15-17	11/6/2006	0.0280 U	0.0860 U	0.140 U		0.0530 U					
WWT-101-21-23	'21-23	11/6/2006	0.0230 U	0.0720 U	0.120 U		0.0450 U					
WWT-1-12-14	'12-14	8/23/2001	0.00640 U	0.250 JN								

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Decahydro-2-Methyl-Naphthalene mg/kg	Dichloro-difluoromethane mg/kg	Dichloro-fluoromethane mg/kg	Diisopropyl Ether (DIPE) mg/kg	Dimethyl Sulfide mg/kg	Diphenyl Ether mg/kg	Dodecane mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001	0.00580 U									
WWT-2-12-14	'12-14	8/23/2001	0.00920 U	0.750 JN						0.380 JN		
WWT-3-0-0.5	'0-0.5	8/23/2001	0.00640 U									
WWT-3-12-14	'12-14	8/23/2001	0.00520 U									

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
SRS					110000	25	140					
12K-B1-0.5-2	'0.5-2	9/6/2001			0.000950 U							
12K-B1-0-0.5	'0-0.5	9/6/2001			0.00110 U							
12K-B2-0.5-2	'0.5-2	9/6/2001			0.000920 U							
12K-B2-0-0.5	'0-0.5	9/6/2001			0.00100 U							
150K-1-0.5-2	'0.5-2	9/10/2001			0.000830 U							
150K-1-0-0.5	'0-0.5	9/10/2001			0.00120							
230-B1-0.5	'0-0.5	10/2/2001			0.00110 U			0.0140 JN				
230-B10-0-0.5	'0-0.5	8/30/2001			0.0257 J					0.0690 JN	0.0620 JN	
230-B10-1.5-2	'1.5-2	8/30/2001			0.00130 U							
230-B11-0-0.5	'0-0.5	8/30/2001			0.00140 J							
230-B11-1.5-2	'1.5-2	8/30/2001			0.00660 U				0.00680 JNB			
230-B1-4-6	'4-6	10/2/2001			0.610 U							
230-B2-0-0.5	'0-0.5	8/30/2001			0.00540 U							
230-B2-1.5-2	'1.5-2	8/30/2001			0.000880 U							
230-B3-0-0.5	'0-0.5	8/30/2001			0.00700 U							
230-B3-1.5-2	'1.5-2	8/30/2001			0.00480 U							
230-B4-0-0.5	'0-0.5	8/30/2001			0.00120 J							
230-B4-1.5-2	'1.5-2	8/30/2001			0.00120 U							
230-B5-0-0.5	'0-0.5	9/13/2001			0.00120 U			0.0150 JN				
230-B5-1.5-2	'1.5-2	9/13/2001			0.00120 U							
230-B6 0-0.5	'0-0.5	8/22/2001			0.00500 U			0.140 JN				
230-B6 1.5-2	'1.5-2	8/22/2001			0.00490 U							
230-B7 0-0.5	'0-0.5	8/22/2001			0.00760 U			0.0730 JN				
230-B7 1.5-2	'1.5-2	8/22/2001			0.00520 U							
230-B8 1.5-2	'1.5-2	8/22/2001			0.00640 U							
230-B9 0-0.5	'0-0.5	8/22/2001			0.00560 U							
230-B9 0-0.5	'0-0.5	8/22/2001			0.00510 U			0.0420 JN				
230-B9 1.5-2	'1.5-2	8/22/2001			0.00520 U							
231-B1-0-0.5	'0-0.5	10/5/2001			0.00120 U							
231-B10-0-0.5	'0-0.5	9/17/2001			0.00190 U			0.0390 JN				
231-B11-0-0.5	'0-0.5	9/19/2001			0.00120 U							
231-B11-8-10	'8-10	9/19/2001			0.00180 U				0.00950 JN			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001			0.00140 U							
231-B13-0-0.5	'0-0.5	9/19/2001			0.00280 U							
231-B13-8-10	'9-10	9/27/2001			2.30 U							
231-B14-0-0.5	'0-0.5	9/19/2001			0.00100 U			0.00520 JN	0.00820 JN			
231-B2-0.5-2	'0.5-2	8/22/2001			0.00560 U							
231-B2-0-0.5	'0-0.5	8/22/2001			0.00580 U			0.00590 JN				
231-B3-0-0.5	'0-0.5	8/22/2001			0.00580 U							
231-B4-0-0.5	'0-0.5	8/30/2001			0.00870 U			0.0160 JN				
231-B4-6-8	'6-8	9/27/2001			0.00480							
231-B5-0.5-2	'0.5-2	9/19/2001			0.00110 U							
231-B6-0-0.5	'0-0.5	9/27/2001			0.00130							
231-B6-4-6	'4-6	9/27/2001			0.00270 U							
231-B7-0-0.5	'0-0.5	9/13/2001			0.00110 U				0.00680 JN			
231-B8-0-0.5	'0-0.5	9/27/2001			0.00540 UJ			0.150 JN	0.0320 JN			
231-B8-8-10	'8-10	9/27/2001			0.960 U							
231-B9-0.5-2	'0.5-2	9/27/2001			0.00170 U							
231-B9-0-0.5	'0-0.5	9/27/2001			0.00160 U							
240-1-0-0.5	'0-0.5	9/26/2001			0.00100 U							
240-1-8-10	'8-10	10/1/2001			0.00120 U							
5K-B1-0-0.5	'0-0.5	10/1/2001			0.00110 U							
5K-B2-0-0.5	'0-0.5	8/31/2001			0.00140 U							
5K-B2-8-10	'8-10	8/31/2001			0.000950 U							
5K-B3-0-0.5	'0-0.5	9/26/2001			0.00110 U							
5K-B4-0-0.5	'0-0.5	10/1/2001			0.00130 U							
5K-B4-4-6	'4-6	10/1/2001			0.0620 U							
5K-B5-0-0.5	'0-0.5	8/31/2001			0.00180							
5K-B5-4-6	'4-6	9/26/2001			0.00170							
AB-1-0-0.5	'0-0.5	9/4/2001			0.00420 U			0.0840 JN				
AB-2-0.5-2	'0.5-2	9/4/2001			0.00150 U							
AB-2-0-0.5	'0-0.5	9/4/2001			0.00100 U							
ADN-1-0-0.5	'0-0.5	9/5/2001			0.000940 U			0.0170 JN				
ADN-1-8-10	'8-10	9/5/2001			0.180 U							
ADN-2-0-0.5	'0-0.5	9/5/2001			0.000950 U			0.00720 JN				

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
ADN-2-10-11	'10-11	9/27/2001		0.00940 JN	0.000990 J							
ADS-1-0-.5	'0-0.5	7/17/2001			0.00760 U							
ADS-10-0-0.5	'0-2	7/18/2001			0.00590 U							
ADS-101-0-1	'0-1	12/5/2006			0.0260 U							
ADS-101-1-3	'1-3	12/5/2006			0.0210 U							
ADS-102-0-1.5	'0-2	12/5/2006			0.0220 U							
ADS-102-7-8	'4-8	12/6/2006			0.0260 U							
ADS-10-4-6	'4-6	7/18/2001			0.0120 U							
ADS-11-0-0.5	'0-2	7/18/2001			0.00620 U							
ADS-12-0.5-2	'0.5-2	7/18/2001			0.00560 U							
ADS-12-0-0.5	'0-0.5	7/18/2001			0.00820 U							
ADS-2-0-0.5	'0-0.5	7/18/2001			0.00610 U			0.0290 JN				
ADS-2-4-6	'4-6	7/18/2001			0.00490 U							0.00570 JN
ADS-3-0-0.5	'0-0.5	7/18/2001			0.00570 U			0.00910 JN				
ADS-4-0-0.5	'0-2	7/18/2001			0.00600 U							
ADS-4-12-14	'12-14	7/18/2001			0.00880 U							
ADS-5-0-0.5	'0-0.5	7/18/2001			0.00530 U							
ADS-5-4-6	'4-6	9/27/2001			0.00100 U							
ADS-6-0.5-2	'0.5-2	7/18/2001			0.00300 J							
ADS-6-0-0.5	'0-0.5	7/18/2001			0.00480 U							
ADS-7-0-.5	'0-0.5	7/17/2001			0.00520 U							
ADS-8-0-0.5	'0-0.5	7/18/2001			0.00960 U							
ADS-8-4-6	'4-6	7/18/2001			0.00910 U							
ADS-9-0-0.5	'0-0.5	7/18/2001			0.00930 U							
BLIND DUP	'0-0	8/21/2001			0.00620 U							
BSL-10-0-1	'0-1	9/21/2001			0.00140 U							
BSL-1-0-1	'0-1	9/20/2001			0.00120 U							
BSL-11-0-1	'0-1	9/26/2001			0.00120 U			0.00740 JN				
BSL-12-0-1	'0-1	9/26/2001			0.00100 U							
BSL-1-4-6	'4-6	9/20/2001			0.00140 U							
BSL-2-0-1	'0-1	9/21/2001			0.00150 U							
BSL-3-0-0.5	'0-0.5	9/20/2001			0.00100 U							
BSL-4-0-1	'0-0.5	9/21/2001			0.00140 U			0.0310 JN				

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
BSL-4-4-6	'4-6	9/21/2001			0.00240 U							
BSL-5-0-.5	'0-0.5	9/21/2001			0.00100 U			0.0150 JN				
BSL-6-0-1	'0-1	9/26/2001			0.00140 U			0.0130 JN	0.0140 JN			
BSL-6-1-2	'1-2	9/26/2001			0.00350 U							
BSL-7-0-.5	'0-0.5	9/21/2001			0.00130 U			0.00740 JN				
BSL-8-0-1	'0-1	9/26/2001			0.00190 U							
BSL-9-.5-2	'0.5-2	9/21/2001			0.00200 U							
BSL-9-0-.5	'0-0.5	9/21/2001			0.00110 U			0.0230 JN				
BT-B1-0-0.5	'0-0.5	9/18/2001			0.00110 U			0.140 JN				
BT-B2-0.5-2	'0.5-2	9/18/2001			0.000830 U			0.00620 JN				
BT-B2-0-0.5	'0-0.5	9/18/2001			0.000920 U							
BT-B3-0-0.5	'0-0.5	9/18/2001			0.00120 U							
BT-B4-0.5-2	'0.5-2	8/30/2001			0.00490 U				0.00850 JN			
BT-B4-0-0.5	'0-0.5	8/30/2001			0.00800							
BT-B5-0-.5	'0-0.5	10/2/2001			0.00110 U			0.0310 JN				
BT-B6-0.5-2	'0.5-2	9/17/2001			0.00190 U							
BT-B6-0-0.5	'0-0.5	9/17/2001			0.00140 U							
CF-1-0-0.5	'0-0.5	8/31/2001			0.000950 U			0.0350 JN				
CF-1-2-4	'2-4	8/31/2001			0.00160 U							
CF-2-0-0.5	'0-0.5	8/28/2001			0.00650 U							
CF-3-0.5-2	'0.5-2	8/28/2001			0.0120 U							
CF-3-0-0.5	'0-0.5	8/28/2001			0.00900 U			0.0180 JN				
CF-4-0-0.5	'0-0.5	8/28/2001			0.00640 U							
CF-5-0-0.5	'0-0.5	8/28/2001			0.00570 U			0.0200 JN				
CF-5-4-6	'4-6	8/28/2001			0.00500 U							
CF-6-0-0.5	'0-0.5	8/28/2001			0.00520 U			0.00970 JN				
CF-7-0-0.5	'0-0.5	8/28/2001			0.00520 U			0.0190 JN				
CF-7-4-6	'4-6	8/28/2001			0.00600 U							
CF-8-0-0.5	'0-0.5	8/28/2001			0.00540 U			0.0430 JN				
CF-9-0.5-2	'0.5-2	8/31/2001			0.00140 U							
CF-9-0-0.5	'0-0.5	8/31/2001			0.000960 U			0.0180 JN				
DC-B12-0-0.5	'0-0.5	10/3/2001			0.00170 J				0.0190 JN			
DC-B12-2-4	'2-4	10/3/2001			0.0282				0.00990 JN			

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001			0.000950 U							
DC-SS11-0-0.5	'0-0.5	9/17/2001			0.000860 U							
DC-SS13-0-0.5	'0-0.5	9/17/2001			0.00170 U			0.0170 JN				
DC-SS15-0-0.5	'0-0.5	9/17/2001			0.00120 U							
DC-SS17-0-0.5	'0-0.5	9/17/2001			0.00110 U							
DC-SS2-0-0.5	'0-0.5	9/17/2001			0.00100 U			0.0120 JN				
DC-SS3-0-0.5	'0-0.5	9/17/2001			0.00120 U			0.0400 JN				
DC-SS6-0-0.5	'0-0.5	9/17/2001			0.00160 U			0.0110 JN				
DC-SS7-0-0.5	'0-0.5	9/17/2001			0.00130 U			0.0130 JN				
DC-SS9-0-0.5	'0-0.5	9/17/2001			0.000940 U							
DSP-1-0-0.5	'0-0.5	10/3/2001			0.00140 U			0.0440 JN	0.0160 JN			
DSP-1-4-6	'4-6	11/19/2001			0.00120 U							
DSP-2-0-0.5	'0-0.5	9/4/2001			0.00120 U							
DSP-3-0-0.5	'0-0.5	9/4/2001			0.00110 U			0.00940 JN				
DSP-3-2-4	'2-4	9/4/2001			0.00100 U							
DSP-4-0-0.5	'0-0.5	9/4/2001			0.00110 U			0.00610 JN				
DSP-4-4-6	'4-6	9/26/2001			0.00100 U							
DUP-01-010824	'0-0.5	8/24/2001			0.00630 U			0.0500 JN				
DUP-01-010831	'2-4	8/31/2001			0.00180 U							
DUP-01-010904	'0-0.5	9/4/2001			0.00100 U							
DUP-01-010905	'8-10	9/5/2001			0.00410							
DUP-01-010906	'0-8	9/6/2001			0.0324					0.220 JN		
DUP-01-010913	'0-0.5	9/13/2001			0.00180 U							
DUP-01-010917	'0-0.5	9/17/2001			0.00120 U							
DUP-01-010926	'1-2	9/26/2001			0.00240 U							
DUP-01-010927	'4-6	9/27/2001			0.00150 U							
DUP-01-021001	'0-0	10/2/2001			0.000860 U			0.0130 JN				
DUP-01-08 2201	'1.5-2	8/22/2001			0.00600 U			0.0120 JN				
DUP-01-121001	'0-0	10/12/2001			0.00140 U			0.0180 JN				
DUP-01-170402	'0-0	4/17/2002			0.280 U							
DUP-02-010913	'0-0.5	9/13/2001			0.00100 U							
DUP-02-010921	'0-1	9/21/2001			0.00130 U							
DUP-02-010926	'4-6	9/26/2001			0.00110 U							

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
DUP060807	'0-0	6/8/2007			0.0300 U							
DUP-1-010828	'0-0.5	8/28/2001			0.00560 U			0.00820 JN				
DUP-1-010921	'0-0.5	9/21/2001			0.00140 U			0.0350 JN				
DUP110606	'15-17	11/6/2006			0.0310 U							
DUP112006	'16-18	11/20/2006			0.0780 U							
DUP112106	'10-12	11/21/2006			0.0840 U							
DUP-120506	'0-4	12/5/2006			0.0220 U							
DUP-120606	'0-4	12/6/2006			0.0823							
DUPE071801	'0-0.5	7/18/2001			0.00660 U							
EC-1	'0-1	8/21/2001			0.00640 U			0.0320 JN				
EC-2	'0-1	8/21/2001			0.00850 U			0.0130 JN				
EC-3	'0-1	8/21/2001			0.00700 U			0.0120 JN				
EC-4	'0-1	8/21/2001			0.00880 U			0.0210 JN				
EC-5	'0-1	8/21/2001			0.00510 U			0.0300 JN				
EC-6	'0-1	8/21/2001			0.00650 U			0.120 JN				
EC-7	'0-1	8/21/2001			0.00740 U			0.0330 JN				
EC-8	'0-1	8/21/2001			0.00670 U			0.0400 JN				
EC-9	'0-1	8/21/2001			0.00640 U			0.0710 JN	0.00680 JN			
ESR-1-0-1	'0-0.5	9/4/2001			0.00110 U							
ESR-1-4-6	'4-6	9/4/2001			0.00110 U							
HB-101A	'17-17	3/5/2007			0.0250 U							
HB-102A	'0-0	3/13/2007			0.0700 U							
HB-102B	'0-0	3/14/2007			0.0270 U							
HB-102C	'0-0	3/14/2007			0.0240 U							
H-B-103A	'17-17	2/20/2007			0.0400 U							
H-B-104A	'17-17	2/23/2007			0.0290 U							
H-B-104B	'17-17	2/23/2007			0.0240 U							
H-B-104C	'17-17	2/23/2007			0.157					0.550 JN	1.90 JN	
H-B-104D	'17-17	2/27/2007			0.0270 U							
H-B-104E	'17-17	2/27/2007			0.0250 U							
H-B-105C	'17-17	2/8/2007			0.0240 U							
H-B-105D	'17-17	2/8/2007			0.0270 U							
H-B-105E	'0-0	2/8/2007			0.0280 U							

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
HB-1A	'6.75-6.75	4/18/2002			0.00270							
HB-3A	'5.25-5.25	4/17/2002			0.370 U							
HB-3B	'4.5-4.5	4/17/2002			0.00120							
HB-3C	'4.5-4.5	4/18/2002			0.00110							
HB-3D	'4.5-4.5	4/18/2002			0.00130 U							
HB-4A	'5.33-5.33	4/19/2002		0.0170 JN	0.00160							
HB-5A	'3-3	4/22/2002			0.00110							
HB-7A	'5-5	4/19/2002			0.00100 J							
HB-8A	'3-3	4/23/2002			0.00140 U							
HB-8B	'4.83-4.83	4/23/2002			0.00140 U							
HB-8C	'5.5-5.5	4/23/2002			0.122							
HB-9A	'4.75-4.75	4/24/2002			0.00590						0.0240 JN	
HF-B1-0-0.5	'0-0.5	9/10/2001			0.00230 U							
HF-B1-8-10	'8-10	9/10/2001			0.00150							
HF-B2-0-0.5	'0-0.5	9/4/2001			0.000970 U							
HF-B2-4-6	'4-6	9/4/2001			0.00120 U							
HF-B3-0-.5	'0-0.5	10/2/2001			0.00120 U							
HF-B3-8-10	'8-10	10/2/2001			0.00140 U			0.0120 JN				
IB-1-0-2	'0-2	4/8/2002			0.00120 U							
IB-1-4-6	'4-6	4/8/2002			0.000780 J							
IB-2-12-14	'12-14	4/8/2002			0.0122							
IB-2-4-6	'4-6	4/8/2002			0.00430					0.0690 JN		
IB-3-4-6	'4-6	4/8/2002			0.00620							
IB-3-8-10	'8-10	4/8/2002			0.0164					0.200 J		
LB-101-0-1	'0-1	12/6/2006			0.0240 U							
LB-101-1-3	'1-3	12/6/2006			0.0190 U							
LB-102-0-1	'0-3	12/6/2006			0.0260 U							
LB-102-1-3	'3-7	12/6/2006			0.0220 U							
LB-103-0-1	'0-1	12/6/2006			0.0250 U							
LB-103-5-7	'5-7	12/6/2006			0.0330 U							
LHP-101-0-1	'0-1	12/4/2006			0.0290 U							
LHP-101-5-8	'4-8	12/4/2006			0.0585 J							
LHP-102-0-1	'0-1	12/5/2006			0.0300 U							

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
LHP-102-7-9	'7-9	12/5/2006			0.000600 U							
LHP-102-7-9	'7-9	12/6/2006			0.0606 J							
LHP-103-0-1	'0-1	12/5/2006			0.0260 U							
LHP-103-1-3	'1-3	12/5/2006			0.0280 U							
LHP-104-0-1	'0-1	12/5/2006			0.0250 U							
LHP-104-7-9	'4-8	12/5/2006			0.0435 J							
LHP-105-0-1	'0-1	12/5/2006			0.0230 U							
LHP-105-1-3	'1-3	12/5/2006			0.0290 U							
LHP-106-0-1	'0-1	12/4/2006			0.0220 U							
LHP-106-1-3	'1-3	12/4/2006			0.0320 U							
LHP-107-0-1	'0-1	12/5/2006			0.0210 U							
LHP-107-5-7	'4-8	12/5/2006			0.0260 U							
LHP-108-0-1	'0-1	12/6/2006			0.0270 U							
LHP-108-3-7	'3-7	12/6/2006			0.0270 U							
LHP-109-0-1	'0-1	12/6/2006			0.0270 U							
LHP-109-7-9	'7-9	12/6/2006			0.0430 U							
LHP-110-0-1	'0-1	12/4/2006			0.0470 U							
LHP-111-0-1	'0-1	12/4/2006			0.0220 U							
LHP-112-0-1	'0-1	12/4/2006			0.0230 U							
LHP-113-0-1	'0-1	12/4/2006			0.0220 U							
LHP-114-0-1	'0-1	12/4/2006			0.0210 U							
LHP-115-0-1	'0-1	12/4/2006			0.0210 U							
LHP-116-0-1	'0-1	12/4/2006			0.0230 U							
LHP-117-0-1	'0-1	12/4/2006			0.0250 U							
LHP-118-0-1	'0-1	12/4/2006			0.0404 J							
LHP-119-0-1	'0-1	12/4/2006			0.0310 U							
LHP-120-0-1	'0-1	12/4/2006			0.0410 U							
LHP-121-0-1	'0-1	12/6/2006			0.0874							
LHP-122-0-1	'0-1	12/6/2006			0.0240 U							
LHP-123-0-1	'0-1	12/4/2006			0.0270 U							
LHP-124-.5-2	'0.5-2	10/27/2006			0.0350 U							
LHP-124-2-4	'2-4	10/27/2006			0.0250 U							
LHP-124-28-30	'28-30	10/31/2006			0.0340 U							

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006			0.0280 U							
LHP-125-10.5-12	'10.5-12	11/1/2006			0.0330 U							
LHP-125-12-14	'12-14	11/1/2006			0.0250 U							
LHP-125-4-6	'4-6	10/27/2006			0.0290 U							
LHP-126-10.5-12	'10.5-12	11/1/2006			0.220 UJ							
LHP-126-14-16	'14-16	11/1/2006			0.0270 U							
LHP-126-2-4	'2-4	10/26/2006			0.0280 U							
LHP-126-8-10	'9-10	10/26/2006			0.0410 U							
LHP-127-0-1	'0-1	12/6/2006			0.0320 U							
LHP-127-3-5	'3-5	12/6/2006			0.0240 U							
LHP-128-0-1	'0-4	12/6/2006			0.121							
LHP-128-7-8	'17-17	12/6/2006			0.0456 J							
LP-1-0-0.5	'0-0.5	8/27/2001			0.00620 U			0.0190 JN				
LP-10-0.5-2	'0.5-2	8/27/2001			0.00510 U				0.00900 JNB			
LP-10-0-0.5	'0-0.5	8/27/2001			0.00620 U							
LP-101-11-13	'11-13	11/2/2006			0.0770 U							
LP-101-14-16	'14-16	11/2/2006			0.0700 U							
LP-101-26-28	'26-28	11/2/2006			0.0250 U							
LP-101-50-52	'50-52	11/2/2006			0.0250 U							
LP-11-0-0.5	'0-0.5	8/27/2001			0.00670 U				0.00780 JNB			
LP-12-0-0.5	'0-0.5	8/27/2001			0.00720 U							
LP-12-4-6	'4-6	8/27/2001			0.00580 U							
LP-13-0-0.5	'0-0.5	8/24/2001			0.00500 U							
LP-14-0.5-2	'0.5-2	8/24/2001			0.00540 U				0.00780 JNB			
LP-14-0-0.5	'0-0.5	8/24/2001			0.00640 U							
LP-15-0-0.5	'0-0.5	8/24/2001			0.00680 U							
LP-16-0.5-2	'0.5-2	8/27/2001			0.00440 U							
LP-16-0-0.5	'0-0.5	8/27/2001			0.00730 U							
LP-2-0.5-2	'0.5-2	8/28/2001			0.00480 U							
LP-2-0-0.5	'0-0.5	8/28/2001			0.00690 U			0.0160 JN				
LP-3-0-0.5	'0-0.5	8/27/2001			0.00570 U							
LP-4 .5-2	'0.5-2	8/21/2001			0.640 U							
LP-4 0-.5	'0-0.5	8/21/2001			0.580 U							

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001			0.00620 U							
LP-6-0-0.5	'0-0.5	8/27/2001			0.00640 U							
LP-6-4-6	'4-6	8/27/2001			0.00660 U			0.0310 JN				
LP-7-0-0.5	'0-0.5	8/24/2001			0.00500 U							
LP-8-0-0.5	'0-0.5	8/24/2001			0.00620 U			0.00720 JN				
LP-8-10-12	'10-12	8/24/2001			0.0120 U							
LP-9-0-0.5	'0-0.5	8/24/2001			0.00700 U							
MW-11D-12-14	'12-14	12/14/2006			0.0860 U	4.70 JN						
MW-11D-14-16	'14-16	12/14/2006			0.0300 U	1.70 J						
MW-11D-16-18	'16-18	12/14/2006			0.0290 U	3.30 JN						
MW-14D-13-15	'13-15	11/14/2006			0.0330 U							
MW-14D-17-19	'17-19	11/14/2006			0.0270 U							
MW-16D-13-15	'13-15	11/17/2006			0.0900							
MW-16D-17-19	'17-19	11/20/2006			0.0405 J							
MW-17D-15-17	'15-17	11/10/2006			0.0320 U							
MW-17D-17-19	'17-19	11/10/2006			0.0240 U							
MW-18D-13-15	'13-15	11/13/2006			0.0370 U							
MW-18D-17-19	'17-19	11/13/2006			0.0250 U							
MW-20D-12-14	'12-14	11/9/2006			0.0390 U							
MW-20D-32-34	'32-32.9	11/10/2006			0.0230 U							
MW-20D-36-38	'36-38	11/10/2006			0.0270 U							
MW-21D-13-15	'13-13.7	11/16/2006			0.0370 U							
MW-21D-15-17	'15-17	11/16/2006			0.0260 U							
MW-23D-15-17	'15-16	11/15/2006			0.0340 U							
MW-23D-37-39	'37-37.9	11/15/2006			0.0320 U							
MW-25D-10-12	'10-12	11/21/2006			0.0840 U							
MW-25D-33-35	'33-35	12/18/2006			0.0300 U							
MW-26S-8-10	'8-10	10/26/2006			0.0340 U							
MW-6D-0-2	'0-2	11/8/2006			0.0250 U							
MW-6D-12-14	'12-14	11/8/2006			0.110 U							
MW-6D-16-18	'16-18	11/20/2006			0.0700 U							
MW-6D-30-32	'30-32	11/21/2006			0.0320 U							
PCA-1-0-.5	'0-2	7/17/2001			0.0390 U							

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
PCA-1-4-6	'4-6	7/17/2001			0.00700 U							
PCA-2-0-.5	'0-0.5	7/17/2001			0.00490 U							
PCA-3-0-0.5	'0-0.5	9/13/2001			0.00120 U			0.00840 JN	0.00660 JN			
PCA-3-4-6	'4-6	9/13/2001			0.00210 U							
PCA-4-0-0.5	'0-0.5	9/13/2001			0.00110 U							
PCA-4-4-6	'4-6	9/26/2001			0.00150 U							
PCA-5-0.5-2	'0.5-2	9/7/2001			0.000860 U							
PCA-5-0-0.5	'0-0.5	9/7/2001			0.00100 U							
PCA-6-0-0.5	'0-0.5	9/7/2001			0.00130 U							
RR-1 0-0.5	'0-0.5	8/22/2001			0.00480 U			0.0680 JN				
RR-1 14-16	'14-16	8/22/2001			0.290 U							
RR-10 0-.5	'0-0.5	10/12/2001			0.00130 U							
RR-11 0-.5	'0-0.5	10/12/2001			0.00130 U			0.0230 JN				
RR-12 0-.5	'0-0.5	10/12/2001			0.00100 U							
RR-2-0-0.5	'0-0.5	9/13/2001			0.000990 U				0.00620 JNB			
RR-2-8-10	'8-10	9/13/2001			0.00150 U							
RR-3-0-0.5	'0-0.5	9/13/2001			0.00110 U							
RR-4-0-0.5	'0-0.5	9/10/2001			0.00160 U							
RR-4-6-8	'6-8	9/13/2001			0.00210 U							
RR-5-0-0.5	'0-0.5	9/10/2001			0.00140 U				0.00920 JN			
RR-6-0-0.5	'0-0.5	9/10/2001			0.00130 U							
RR-6-8-10	'8-10	9/10/2001			0.000810 U			0.00410 JN				
RR-7-0-0.5	'0-0.5	9/10/2001			0.00100 U							
RR-8-0-0.5	'0-0.5	9/26/2001			0.00150 U							
RR-8-6-8	'6-8	9/26/2001			0.00480 U							
RR-9 0-.5	'0-0.5	10/12/2001			0.00130 U			0.0340 JN				
SC-1	'0-1	8/21/2001			0.00760 U			0.0230 JN				
SC-2	'0-1	8/22/2001			0.00660 U			0.0520 JN				
SC-3	'0-1	8/22/2001			0.00690 U			0.0220 JN				
SILO-B1-0-0.5	'0-0.5	9/6/2001			0.00110 U							
SILO-B1-6-8	'6-8	9/6/2001			0.0760							
SILO-B2-0-0.5	'0-0.5	9/6/2001			0.00100 U				0.00680 JN			
SILO-B3-0-0.5	'0-0.5	9/6/2001			0.000990 U							

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
SILO-B3-6-8	'6-8	9/6/2001		0.00940 JN	0.000960 U							
SILO-B4-0-0.5	'0-0.5	9/6/2001			0.00160 U							
SPR-1-0-0.5	'0-0.5	9/5/2001			0.00110 U							
SPR-1-8-10	'8-10	9/5/2001			0.00250 U							
SPR-2A-0-0.5	'0-0.5	7/19/2001			0.00900 U			0.0400 JN				
SPR-2A-8-10	'8-10	7/19/2001			7.11							
SPR-2B-0-0.5	'0-0.5	7/19/2001			0.0120 U							
SPR-2B-10-12	'10-12	7/19/2001			20.6							
SPR-3 0-.5	'0-0.5	8/21/2001			0.430 U							
SPR-3 4-6	'4-6	8/21/2001			0.540 U							
SPR-4A-0-0.5	'0-0.5	7/19/2001			0.00500 U							
SPR-4A-8-10	'8-10	7/19/2001			13.3							
SPR-4B-0-0.5	'0-0.5	8/22/2001			0.0898							
SPR-4B-4-6	'4-6	8/23/2001	0.0150 JN		0.00310 J							
SPR-4C-0-0.5	'0-0.5	8/23/2001			0.00580 U			0.0240 JN				
SPR-4C-4-6	'4-6	8/23/2001			0.211 J							
SPR-5-0-0.5	'0-0.5	9/5/2001			0.00120 U			0.0220 JN				
SPR-5-2-4	'2-4	9/5/2001			0.00720							
SPR-6-0.5-2	'0.5-2	9/13/2001			0.00120 U				0.00660 JN			
SPR-6-0-0.5	'0-0.5	9/13/2001			0.00110 U				0.00540 JN			
SR-1-0-.5	'0-0.5	7/17/2001			0.00580 U			0.0180 JN				
SR-2-0-.5	'0-0.5	7/17/2001			0.00670 U							
ST-1-0-0.5	'0-0.5	9/5/2001			0.00100 U							
ST-2-0-0.5	'0-0.5	9/5/2001			0.000960 U							
ST-3-0-0.5	'0-0.5	9/4/2001			0.00120 U							
ST-3-4-6	'4-6	9/4/2001			0.00150 U							
TES-1-0-1	'0-1	12/5/2006			0.0320 U							
TES-2-0-1	'0-1	12/4/2006			0.0370 U							
TES-3-0-1	'0-1	12/4/2006			0.0310 U							
TES-4-0-1	'0-1	12/5/2006			0.0662 J							
TLN-1 .5-2	'0.5-2	8/20/2001			0.00590 U							
TLN-1 0-.5	'0-0.5	8/20/2001			0.00560 U							
TLN-2-0-0.5	'0-0.5	7/19/2001			0.00760 U							

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001			0.00580 U							
TLN-3-2-4	'2-4	7/17/2001	0.0180 JN		0.00500 U							
TLN-4 0-.5	'0-0.5	8/20/2001			0.00540 U							
TLN-4 0-.5 DUP	'0-0.5	8/20/2001			0.00480 U							
TLN-5 .5-2	'0.5-2	8/20/2001			0.0120 U							
TLN-5 0-.5	'0-0.5	8/20/2001			0.00530 J							
TLN-5-4-6	'4-6	8/30/2001			0.00100 U							
TLN-6 0-.5	'0-0.5	8/20/2001			0.00480 U							
TLS-10 0-.5	'0-0.5	8/21/2001			0.520 U							
TLS-10 8-10	'8-10	8/21/2001			0.620 U							
TLS-1-0-0.5	'0-0.5	9/5/2001			0.00230 U							
TLS-11-0-0.5	'0-0.5	9/7/2001			0.00140 U							
TLS-2-0-0.5	'0-0.5	9/7/2001			0.00100 U							
TLS-2-6-8	'6-8	9/7/2001	0.0440 JN		0.00360 U							
TLS-3 0-.5	'0-0.5	8/21/2001			0.460 U							
TLS-4-0-0.5	'0-0.5	9/7/2001			0.00100 U							
TLS-4-8-10	'8-10	9/7/2001			0.00200 U							
TLS-5 0-0.5	'0-0.5	8/21/2001			0.00530 U							
TLS-5-8-10	'8-10	9/26/2001			0.00200 U					0.0160 JN		
TLS-6 0-.5	'0-0.5	8/21/2001			0.470 U							
TLS-6-3-5	'3-5	9/26/2001			0.00110 U							
TLS-7 0-.5	'0-0.5	8/21/2001			0.550 U		0.820 JN					
TLS-8-0-0.5	'0-0.5	9/7/2001			0.00110 U							
TLS-8-6-8	'6-8	9/7/2001			0.00210 U							
TLS-9 0-.5	'0-0.5	8/21/2001			0.450 U							
TP-105	'0-0	6/8/2007			0.0350 U							
TP-105A	'0-0	6/8/2007			0.0300 U							
TP-106-A	'0-0	6/8/2007			0.0350 U							
TP-106-B	'0-0	6/8/2007			0.0230 U							
WWT-1-0-0.5	'0-0.5	7/19/2001			0.00740 U							
WWT-101-15-17	'15-17	11/6/2006			0.0300 U							
WWT-101-21-23	'21-23	11/6/2006			0.0250 U							
WWT-1-12-14	'12-14	8/23/2001			0.00610 J							

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethane, 2-Chloro-1,1-Dimethoxy- mg/kg	Ether mg/kg	Ethylbenzene mg/kg	Hexa-chlorobutadiene mg/kg	Hexa-chloroethane mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Indane mg/kg	Indene mg/kg	Isopropanol mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001			0.00580 U							
WWT-2-12-14	'12-14	8/23/2001			0.0990							
WWT-3-0-0.5	'0-0.5	8/23/2001			0.00640 U							
WWT-3-12-14	'12-14	8/23/2001			0.00460 J							

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
SRS							87			16		
12K-B1-0.5-2	'0.5-2	9/6/2001					0.00480 JB					
12K-B1-0-0.5	'0-0.5	9/6/2001					0.00980 B					
12K-B2-0.5-2	'0.5-2	9/6/2001					0.00470 B					
12K-B2-0-0.5	'0-0.5	9/6/2001					0.00500 JB					
150K-1-0.5-2	'0.5-2	9/10/2001					0.00460 B					
150K-1-0-0.5	'0-0.5	9/10/2001					0.00450 JB					
230-B1-0.5	'0-0.5	10/2/2001					0.00540 JB					
230-B10-0-0.5	'0-0.5	8/30/2001					0.0310 JB			0.340 JN		
230-B10-1.5-2	'1.5-2	8/30/2001					0.0110 B			0.0770 JN		
230-B11-0-0.5	'0-0.5	8/30/2001					0.00540 JB					
230-B11-1.5-2	'1.5-2	8/30/2001					0.00660 JB					
230-B1-4-6	'4-6	10/2/2001					1.89 J					
230-B2-0-0.5	'0-0.5	8/30/2001					0.00590 B		0.00700 JN	0.0270 JN		
230-B2-1.5-2	'1.5-2	8/30/2001					0.00460 B					
230-B3-0-0.5	'0-0.5	8/30/2001					0.00770 B					
230-B3-1.5-2	'1.5-2	8/30/2001					0.00480 JB					
230-B4-0-0.5	'0-0.5	8/30/2001					0.00500 JB					
230-B4-1.5-2	'1.5-2	8/30/2001					0.00920 B					
230-B5-0-0.5	'0-0.5	9/13/2001				0.0360 JN	0.00580 JB					
230-B5-1.5-2	'1.5-2	9/13/2001					0.00610 JB					
230-B6 0-0.5	'0-0.5	8/22/2001					0.0106 B					
230-B6 1.5-2	'1.5-2	8/22/2001					0.0109 B					
230-B7 0-0.5	'0-0.5	8/22/2001					0.0158 B					
230-B7 1.5-2	'1.5-2	8/22/2001					0.0120 B					
230-B8 1.5-2	'1.5-2	8/22/2001					0.0136 B					
230-B9 0-0.5	'0-0.5	8/22/2001					0.00560 U					
230-B9 0-0.5	'0-0.5	8/22/2001					0.0126 B				0.00540 JN	
230-B9 1.5-2	'1.5-2	8/22/2001					0.0120 B					
231-B1-0-0.5	'0-0.5	10/5/2001					0.0110 B					
231-B10-0-0.5	'0-0.5	9/17/2001					0.0139 B					
231-B11-0-0.5	'0-0.5	9/19/2001					0.00600 JB					
231-B11-8-10	'8-10	9/19/2001					0.00920 JB					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001					0.00860					
231-B13-0-0.5	'0-0.5	9/19/2001					0.153 B					
231-B13-8-10	'9-10	9/27/2001					690.					
231-B14-0-0.5	'0-0.5	9/19/2001					0.00520 JB					
231-B2-0.5-2	'0.5-2	8/22/2001					0.0111 B					
231-B2-0-0.5	'0-0.5	8/22/2001					0.0129 B					
231-B3-0-0.5	'0-0.5	8/22/2001					0.00950 B					
231-B4-0-0.5	'0-0.5	8/30/2001					0.00870 JB					
231-B4-6-8	'6-8	9/27/2001					0.0168 B			0.0450 JN		
231-B5-0.5-2	'0.5-2	9/19/2001					0.00540 JB					
231-B6-0-0.5	'0-0.5	9/27/2001					0.0195 B					
231-B6-4-6	'4-6	9/27/2001					0.0140 JB					
231-B7-0-0.5	'0-0.5	9/13/2001					0.0135 B					
231-B8-0-0.5	'0-0.5	9/27/2001					0.0103 JB					
231-B8-8-10	'8-10	9/27/2001					10.8					
231-B9-0.5-2	'0.5-2	9/27/2001					0.00860 JB					
231-B9-0-0.5	'0-0.5	9/27/2001					0.00800 J					
240-1-0-0.5	'0-0.5	9/26/2001					0.00520 JB					
240-1-8-10	'8-10	10/1/2001					0.00600 JB					
5K-B1-0-0.5	'0-0.5	10/1/2001					0.00540 JB			0.00780 JN		
5K-B2-0-0.5	'0-0.5	8/31/2001					0.00710 U					
5K-B2-8-10	'8-10	8/31/2001					0.00480 JB			0.0250 JN		
5K-B3-0-0.5	'0-0.5	9/26/2001					0.00650 B					
5K-B4-0-0.5	'0-0.5	10/1/2001					0.00650 JB					
5K-B4-4-6	'4-6	10/1/2001					0.310 U			1.20 JN		
5K-B5-0-0.5	'0-0.5	8/31/2001					0.00550 U			0.0110 JN		
5K-B5-4-6	'4-6	9/26/2001					0.00510 JB	0.0120 JN		0.250 JN		
AB-1-0-0.5	'0-0.5	9/4/2001					0.0210 B					
AB-2-0.5-2	'0.5-2	9/4/2001					0.00760 U					
AB-2-0-0.5	'0-0.5	9/4/2001					0.00500 U					
ADN-1-0-0.5	'0-0.5	9/5/2001					0.00720 B					
ADN-1-8-10	'8-10	9/5/2001					0.880 U			0.980 JN		
ADN-2-0-0.5	'0-0.5	9/5/2001					0.00580 B					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
ADN-2-10-11	'10-11	9/27/2001					0.0367 B					
ADS-1-0-.5	'0-0.5	7/17/2001					0.00760 JB					
ADS-10-0-0.5	'0-2	7/18/2001					0.00590 JB					
ADS-101-0-1	'0-1	12/5/2006	0.0270 U	0.0510 U		0.0370 U	0.0400 U					
ADS-101-1-3	'1-3	12/5/2006	0.0220 U	0.0410 U		0.0300 U	0.0320 U					
ADS-102-0-1.5	'0-2	12/5/2006	0.0230 U	0.0430 U		0.0320 U	0.0340 U					
ADS-102-7-8	'4-8	12/6/2006	0.0270 U	0.0510 U		0.0380 U	0.0400 U					
ADS-10-4-6	'4-6	7/18/2001					0.0120 JB					
ADS-11-0-0.5	'0-2	7/18/2001					0.00620 JB					
ADS-12-0.5-2	'0.5-2	7/18/2001					0.00560 JB					
ADS-12-0-0.5	'0-0.5	7/18/2001					0.00820 JB					
ADS-2-0-0.5	'0-0.5	7/18/2001					0.00610 JB					
ADS-2-4-6	'4-6	7/18/2001			0.0220 JN		0.00490 JB					
ADS-3-0-0.5	'0-0.5	7/18/2001					0.00570 JB					
ADS-4-0-0.5	'0-2	7/18/2001					0.00600 JB					
ADS-4-12-14	'12-14	7/18/2001					0.00880 JB			0.0240 JN		
ADS-5-0-0.5	'0-0.5	7/18/2001					0.00530 JB					
ADS-5-4-6	'4-6	9/27/2001					0.0100 B					
ADS-6-0.5-2	'0.5-2	7/18/2001					0.00560 JB			0.0120 JN		
ADS-6-0-0.5	'0-0.5	7/18/2001					0.00480 JB					0.00830 JN
ADS-7-0-.5	'0-0.5	7/17/2001					0.00520 JB					
ADS-8-0-0.5	'0-0.5	7/18/2001					0.0361 B					
ADS-8-4-6	'4-6	7/18/2001					0.0448 B					
ADS-9-0-0.5	'0-0.5	7/18/2001					0.00930 JB					
BLIND DUP	'0-0	8/21/2001					0.00890 B					
BSL-10-0-1	'0-1	9/21/2001					0.00800 B					
BSL-1-0-1	'0-1	9/20/2001					0.00580 JB					
BSL-11-0-1	'0-1	9/26/2001					0.00580 B					
BSL-12-0-1	'0-1	9/26/2001					0.00520 JB					
BSL-1-4-6	'4-6	9/20/2001					0.00720 JB					
BSL-2-0-1	'0-1	9/21/2001					0.00760 JB					
BSL-3-0-0.5	'0-0.5	9/20/2001					0.00560 B					
BSL-4-0-1	'0-0.5	9/21/2001					0.00720 JB					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
BSL-4-4-6	'4-6	9/21/2001					0.0120 JB					
BSL-5-0-.5	'0-0.5	9/21/2001					0.00520 JB					
BSL-6-0-1	'0-1	9/26/2001					0.00720 JB					
BSL-6-1-2	'1-2	9/26/2001					0.0180 JB					
BSL-7-0-.5	'0-0.5	9/21/2001					0.00880 B					
BSL-8-0-1	'0-1	9/26/2001					0.00940 JB					
BSL-9-.5-2	'0.5-2	9/21/2001					0.0100 JB					
BSL-9-0-.5	'0-0.5	9/21/2001					0.00570 JB					
BT-B1-0-0.5	'0-0.5	9/18/2001					0.00560 JB				0.0200 JN	
BT-B2-0.5-2	'0.5-2	9/18/2001					0.00430 B					
BT-B2-0-0.5	'0-0.5	9/18/2001					0.00610 B					
BT-B3-0-0.5	'0-0.5	9/18/2001					0.00600 B					
BT-B4-0.5-2	'0.5-2	8/30/2001					0.00560 B					
BT-B4-0-0.5	'0-0.5	8/30/2001				0.0150 JN	0.00660 JB					
BT-B5-0-.5	'0-0.5	10/2/2001					0.00540 JB					
BT-B6-0.5-2	'0.5-2	9/17/2001					0.00640 J					
BT-B6-0-0.5	'0-0.5	9/17/2001					0.00870					
CF-1-0-0.5	'0-0.5	8/31/2001					0.00480 JB					
CF-1-2-4	'2-4	8/31/2001			0.0220 JN		0.00800 JB					
CF-2-0-0.5	'0-0.5	8/28/2001					0.00650 JB					
CF-3-0.5-2	'0.5-2	8/28/2001					0.0123 B					
CF-3-0-0.5	'0-0.5	8/28/2001					0.0101 B					
CF-4-0-0.5	'0-0.5	8/28/2001					0.00640 JB					
CF-5-0-0.5	'0-0.5	8/28/2001					0.00620 B					
CF-5-4-6	'4-6	8/28/2001					0.00910 B					
CF-6-0-0.5	'0-0.5	8/28/2001					0.00520 JB					
CF-7-0-0.5	'0-0.5	8/28/2001					0.00660 B					0.0100 JN
CF-7-4-6	'4-6	8/28/2001					0.00600 JB					
CF-8-0-0.5	'0-0.5	8/28/2001					0.00550 B					
CF-9-0.5-2	'0.5-2	8/31/2001					0.00710 JB					
CF-9-0-0.5	'0-0.5	8/31/2001					0.00480 U					
DC-B12-0-0.5	'0-0.5	10/3/2001					0.00980 JB			0.0170 JN		
DC-B12-2-4	'2-4	10/3/2001					0.00880 B			0.0460 JN		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001					0.00610 B					
DC-SS11-0-0.5	'0-0.5	9/17/2001					0.00430 JB					
DC-SS13-0-0.5	'0-0.5	9/17/2001					0.00850 JB					
DC-SS15-0-0.5	'0-0.5	9/17/2001					0.00630 B			0.0260 JN		
DC-SS17-0-0.5	'0-0.5	9/17/2001					0.00550 J			0.0310 JN		
DC-SS2-0-0.5	'0-0.5	9/17/2001					0.00520 JB				0.00770 JN	
DC-SS3-0-0.5	'0-0.5	9/17/2001					0.00600 B				0.00600 JN	
DC-SS6-0-0.5	'0-0.5	9/17/2001					0.00780 JB					
DC-SS7-0-0.5	'0-0.5	9/17/2001					0.00640 JB				0.00840 JN	
DC-SS9-0-0.5	'0-0.5	9/17/2001					0.00710 B					
DSP-1-0-0.5	'0-0.5	10/3/2001					0.00720 JB				0.0110 JN	
DSP-1-4-6	'4-6	11/19/2001					0.00620 U					
DSP-2-0-0.5	'0-0.5	9/4/2001					0.00690 B					
DSP-3-0-0.5	'0-0.5	9/4/2001					0.0226 B					
DSP-3-2-4	'2-4	9/4/2001					0.00500 B					
DSP-4-0-0.5	'0-0.5	9/4/2001					0.00850 B					
DSP-4-4-6	'4-6	9/26/2001					0.00520 B					
DUP-01-010824	'0-0.5	8/24/2001					0.00630 JB					
DUP-01-010831	'2-4	8/31/2001					0.00880 U					
DUP-01-010904	'0-0.5	9/4/2001					0.00540 B					
DUP-01-010905	'8-10	9/5/2001				0.00790 JN	0.0156 B			0.0180 JN		
DUP-01-010906	'0-8	9/6/2001					0.00880 JB			0.120 JN		
DUP-01-010913	'0-0.5	9/13/2001					0.00910 JB					
DUP-01-010917	'0-0.5	9/17/2001					0.00650 B					
DUP-01-010926	'1-2	9/26/2001					0.0120 JB					
DUP-01-010927	'4-6	9/27/2001					0.0152 B					
DUP-01-021001	'0-0	10/2/2001					0.00540 B					
DUP-01-08 2201	'1.5-2	8/22/2001					0.0138 B					
DUP-01-121001	'0-0	10/12/2001					0.00700 U					
DUP-01-170402	'0-0	4/17/2002					1.40 U					
DUP-02-010913	'0-0.5	9/13/2001					0.0476 B					
DUP-02-010921	'0-1	9/21/2001					0.00920 B					
DUP-02-010926	'4-6	9/26/2001					0.00950 B	0.0250 JN		0.450 JN		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
DUP060807	'0-0	6/8/2007	0.0190 U	0.0310 U		0.0320 U	0.0300 U					
DUP-1-010828	'0-0.5	8/28/2001					0.00560 JB					
DUP-1-010921	'0-0.5	9/21/2001					0.00680 JB					
DUP110606	'15-17	11/6/2006	0.0320 U	0.0610 U		0.0450 U	0.402 J					
DUP112006	'16-18	11/20/2006	0.0810 U	0.150 U		0.110 U	0.120 U					
DUP112106	'10-12	11/21/2006	0.0870 U	0.160 U		0.120 U	0.130 U					
DUP-120506	'0-4	12/5/2006	0.0230 U	0.0430 U		0.0870 J	0.0340 U					
DUP-120606	'0-4	12/6/2006	0.0220 U	0.307		0.131 J	0.0320 U					
DUPE071801	'0-0.5	7/18/2001					0.00660 JB					
EC-1	'0-1	8/21/2001					0.0107 B					
EC-2	'0-1	8/21/2001					0.0113 B					
EC-3	'0-1	8/21/2001					0.00820 B					
EC-4	'0-1	8/21/2001					0.0100 B					
EC-5	'0-1	8/21/2001					0.00760 B					
EC-6	'0-1	8/21/2001					0.0100 B				0.00790 JN	
EC-7	'0-1	8/21/2001					0.00980 B					
EC-8	'0-1	8/21/2001					0.0106 B				0.00760 JN	
EC-9	'0-1	8/21/2001					0.0102 B					
ESR-1-0-1	'0-0.5	9/4/2001					0.00600 UJ					
ESR-1-4-6	'4-6	9/4/2001					0.00570 JB					
HB-101A	'17-17	3/5/2007	0.0260 U	0.0480 U		0.0350 U	0.0380 U					
HB-102A	'0-0	3/13/2007	0.0720 U	0.140 U		0.100 U	0.110 U					
HB-102B	'0-0	3/14/2007	0.0280 U	0.0540 U		0.0390 U	0.201 J					
HB-102C	'0-0	3/14/2007	0.0240 U	0.0460 U		0.0340 U	0.0430 J					
H-B-103A	'17-17	2/20/2007	0.0420 U	0.0790 U		0.0580 U	0.0620 U					
H-B-104A	'17-17	2/23/2007	0.0300 U	0.0570 U		0.0420 U	0.0450 U					
H-B-104B	'17-17	2/23/2007	0.0250 U	0.0470 U		0.0350 U	0.0370 U					
H-B-104C	'17-17	2/23/2007	0.0330 U	0.268		0.0450 U	0.0490 U			6.50 JN		
H-B-104D	'17-17	2/27/2007	0.0280 U	0.0520 U		0.0380 U	0.0410 U					
H-B-104E	'17-17	2/27/2007	0.0260 U	0.0480 U		0.0350 U	0.0380 U					
H-B-105C	'17-17	2/8/2007	0.0240 U	0.0460 U		0.0340 U	0.0360 U					
H-B-105D	'17-17	2/8/2007	0.0280 U	0.0530 U		0.0390 U	0.0420 U					
H-B-105E	'0-0	2/8/2007	0.0290 U	0.0540 U		0.0400 U	0.0420 U					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
HB-1A	'6.75-6.75	4/18/2002					0.0679 B			0.280 JN		
HB-3A	'5.25-5.25	4/17/2002					1.80 U					
HB-3B	'4.5-4.5	4/17/2002					0.00440 BJ					
HB-3C	'4.5-4.5	4/18/2002					0.00450 BJ					
HB-3D	'4.5-4.5	4/18/2002					0.00670 BJ					
HB-4A	'5.33-5.33	4/19/2002					0.00510 BJ			0.0180 JN		
HB-5A	'3-3	4/22/2002					0.00880 B			0.0340 JN		
HB-7A	'5-5	4/19/2002					0.00460 J			0.0680 JN		
HB-8A	'3-3	4/23/2002					0.00680 BJ					
HB-8B	'4.83-4.83	4/23/2002					0.00720 BJ			0.00980 JN		
HB-8C	'5.5-5.5	4/23/2002				0.0660 JN	0.00620 BJ			0.160 JN		
HB-9A	'4.75-4.75	4/24/2002					0.00560 BJ			0.340 JN		
HF-B1-0-0.5	'0-0.5	9/10/2001					0.0120 JB					
HF-B1-8-10	'8-10	9/10/2001					0.00630 B					
HF-B2-0-0.5	'0-0.5	9/4/2001					0.00490 B					
HF-B2-4-6	'4-6	9/4/2001					0.00600 JB					
HF-B3-0-.5	'0-0.5	10/2/2001					0.00610 JB					
HF-B3-8-10	'8-10	10/2/2001					0.00680 JB					
IB-1-0-2	'0-2	4/8/2002					0.00590 J			0.00870 JN		
IB-1-4-6	'4-6	4/8/2002					0.00600 UJ			0.0210 JN		
IB-2-12-14	'12-14	4/8/2002					0.00580 U			0.0660 JN		
IB-2-4-6	'4-6	4/8/2002					0.00510 U			0.0260 JN		
IB-3-4-6	'4-6	4/8/2002					0.00560 U			0.180 JN		
IB-3-8-10	'8-10	4/8/2002					0.00880 J			1.30 JN		
LB-101-0-1	'0-1	12/6/2006	0.0250 U	0.0470 U		0.0350 U	0.0370 U					
LB-101-1-3	'1-3	12/6/2006	0.0200 U	0.0380 U		0.0280 U	0.0300 U					
LB-102-0-1	'0-3	12/6/2006	0.0270 U	0.0510 U		0.0380 U	0.0400 U					
LB-102-1-3	'3-7	12/6/2006	0.0230 U	0.0430 U		0.0310 U	0.0340 U					
LB-103-0-1	'0-1	12/6/2006	0.0260 U	0.0500 U		0.0360 U	0.0390 U					
LB-103-5-7	'5-7	12/6/2006	0.0340 U	0.0999 J		0.148 J	0.0500 U					
LHP-101-0-1	'0-1	12/4/2006	0.0300 U	0.0792 J		0.110 J	0.0450 U					
LHP-101-5-8	'4-8	12/4/2006	0.0540 U	0.568		0.0750 U	0.0800 U					
LHP-102-0-1	'0-1	12/5/2006	0.0320 U	0.169		0.239 J	0.0470 U					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
LHP-102-7-9	'7-9	12/5/2006	0.000620 U	0.00120 U		0.000860 U	0.000920 U					
LHP-102-7-9	'7-9	12/6/2006	0.0500 U	0.203 J		0.284 J	0.0740 U					
LHP-103-0-1	'0-1	12/5/2006	0.0260 U	0.0500 U		0.0370 U	0.0390 U					
LHP-103-1-3	'1-3	12/5/2006	0.0290 U	0.0550 U		0.0400 U	0.0430 U					
LHP-104-0-1	'0-1	12/5/2006	0.0250 U	0.0480 U		0.0350 U	0.0380 U					
LHP-104-7-9	'4-8	12/5/2006	0.0380 U	0.204		0.127 J	0.0570 U					
LHP-105-0-1	'0-1	12/5/2006	0.0230 U	0.0440 U		0.0320 U	0.0350 U					
LHP-105-1-3	'1-3	12/5/2006	0.0300 U	0.0560 U		0.0410 U	0.0440 U					
LHP-106-0-1	'0-1	12/4/2006	0.0220 U	0.0420 U		0.0704 J	0.0330 U					
LHP-106-1-3	'1-3	12/4/2006	0.0330 U	0.0620 U		0.0450 U	0.0490 U					
LHP-107-0-1	'0-1	12/5/2006	0.0220 U	0.0410 U		0.0300 U	0.0320 U					
LHP-107-5-7	'4-8	12/5/2006	0.0270 U	0.0500 U		0.0370 U	0.0400 U					
LHP-108-0-1	'0-1	12/6/2006	0.0280 U	0.0520 U		0.0380 U	0.0410 U					
LHP-108-3-7	'3-7	12/6/2006	0.0280 U	0.0530 U		0.0390 U	0.0420 U					
LHP-109-0-1	'0-1	12/6/2006	0.0280 U	0.0530 U		0.0390 U	0.0420 U					
LHP-109-7-9	'7-9	12/6/2006	0.0450 U	0.161 J		0.0620 U	0.0670 U					
LHP-110-0-1	'0-1	12/4/2006	0.0480 U	0.0910 U		0.0670 U	0.0720 U					
LHP-111-0-1	'0-1	12/4/2006	0.0230 U	0.0430 U		0.0320 U	0.0340 U					
LHP-112-0-1	'0-1	12/4/2006	0.0240 U	0.0450 U		0.0330 U	0.0350 U					
LHP-113-0-1	'0-1	12/4/2006	0.0230 U	0.0430 U		0.0310 U	0.0340 U					
LHP-114-0-1	'0-1	12/4/2006	0.0220 U	0.0420 U		0.0310 U	0.0330 U					
LHP-115-0-1	'0-1	12/4/2006	0.0220 U	0.0410 U		0.0300 U	0.0320 U					
LHP-116-0-1	'0-1	12/4/2006	0.0240 U	0.0460 U		0.0340 U	0.0360 U					
LHP-117-0-1	'0-1	12/4/2006	0.0260 U	0.0480 U		0.0360 U	0.0380 U					
LHP-118-0-1	'0-1	12/4/2006	0.0330 U	0.204		0.0450 U	0.0490 U					
LHP-119-0-1	'0-1	12/4/2006	0.0320 U	0.0600 U		0.0440 U	0.0470 U					
LHP-120-0-1	'0-1	12/4/2006	0.0420 U	0.0800 U		0.165 J	0.0630 U					
LHP-121-0-1	'0-1	12/6/2006	0.0377 J	0.316		0.408	0.0470 U					
LHP-122-0-1	'0-1	12/6/2006	0.0250 U	0.0480 U		0.0350 U	0.0370 U					
LHP-123-0-1	'0-1	12/4/2006	0.0280 U	0.0520 U		0.0380 U	0.0410 U					
LHP-124-.5-2	'0.5-2	10/27/2006	0.0360 U	0.0680 U		0.0500 U	0.0530 U					
LHP-124-2-4	'2-4	10/27/2006	0.0260 U	0.0480 U		0.0360 U	0.0380 U					
LHP-124-28-30	'28-30	10/31/2006	0.0350 U	0.0670 U		0.0490 U	0.0530 U					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006	0.0290 U	0.0540 U		0.0400 U	0.0420 U					
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0340 U	0.0630 U		0.0470 U	0.0500 U					
LHP-125-12-14	'12-14	11/1/2006	0.0260 U	0.0490 U		0.0360 U	0.0390 U					
LHP-125-4-6	'4-6	10/27/2006	0.0300 U	0.0570 U		0.0420 U	0.0450 U					
LHP-126-10.5-12	'10.5-12	11/1/2006	0.220 UJ	0.420 UJ		0.310 UJ	0.330 UJ					
LHP-126-14-16	'14-16	11/1/2006	0.0280 U	0.0520 U		0.0380 U	0.0410 U					
LHP-126-2-4	'2-4	10/26/2006	0.0290 U	0.0540 U		0.0400 U	0.0430 U					
LHP-126-8-10	'9-10	10/26/2006	0.0420 U	0.0800 U		0.0590 U	0.0630 U					
LHP-127-0-1	'0-1	12/6/2006	0.0330 U	0.187		0.442	0.0490 U					
LHP-127-3-5	'3-5	12/6/2006	0.0250 U	0.0607 J		0.0978 J	0.0370 U					
LHP-128-0-1	'0-4	12/6/2006	0.0247 J	0.449		0.0290 U	0.0310 U					
LHP-128-7-8	'17-17	12/6/2006	0.0450 U	0.202		0.151 J	0.0670 U					
LP-1-0-0.5	'0-0.5	8/27/2001					0.00780 B					
LP-10-0.5-2	'0.5-2	8/27/2001					0.00510 JB					
LP-10-0-0.5	'0-0.5	8/27/2001					0.00830 B					
LP-101-11-13	'11-13	11/2/2006	0.0800 U	0.150 U		0.110 U	0.120 U					
LP-101-14-16	'14-16	11/2/2006	0.0720 U	0.140 U		0.100 U	0.110 U					
LP-101-26-28	'26-28	11/2/2006	0.0260 U	0.0490 U		0.0360 U	0.0380 U					
LP-101-50-52	'50-52	11/2/2006	0.0260 U	0.0490 U		0.0360 U	0.0390 U					
LP-11-0-0.5	'0-0.5	8/27/2001					0.0123 B					
LP-12-0-0.5	'0-0.5	8/27/2001					0.00830 B					
LP-12-4-6	'4-6	8/27/2001					0.0108 B					
LP-13-0-0.5	'0-0.5	8/24/2001					0.00500 U					
LP-14-0.5-2	'0.5-2	8/24/2001					0.00540 U					
LP-14-0-0.5	'0-0.5	8/24/2001					0.00640 JB					
LP-15-0-0.5	'0-0.5	8/24/2001					0.0126 B					
LP-16-0.5-2	'0.5-2	8/27/2001					0.0143 B					
LP-16-0-0.5	'0-0.5	8/27/2001					0.00730 JB					
LP-2-0.5-2	'0.5-2	8/28/2001					0.0104 B			0.0140 JN		
LP-2-0-0.5	'0-0.5	8/28/2001					0.00810 B					
LP-3-0-0.5	'0-0.5	8/27/2001					0.0183 B					
LP-4 .5-2	'0.5-2	8/21/2001					0.640 U					
LP-4 0-.5	'0-0.5	8/21/2001					0.580 U					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001					0.00620 JB					
LP-6-0-0.5	'0-0.5	8/27/2001					0.00990 B					
LP-6-4-6	'4-6	8/27/2001					0.00980 B					
LP-7-0-0.5	'0-0.5	8/24/2001					0.00500 U					
LP-8-0-0.5	'0-0.5	8/24/2001					0.00720 B					
LP-8-10-12	'10-12	8/24/2001					0.0120 JB					
LP-9-0-0.5	'0-0.5	8/24/2001					0.00700 JB					
MW-11D-12-14	'12-14	12/14/2006	0.0890 U	0.170 U		0.120 U	5.89			1.00 JN		
MW-11D-14-16	'14-16	12/14/2006	0.0310 U	0.0590 U		0.0440 U	0.139 J					
MW-11D-16-18	'16-18	12/14/2006	0.0300 U	0.0560 U		0.0410 U	0.0975 J			1.60 JN		
MW-14D-13-15	'13-15	11/14/2006	0.0340 U	0.0650 U		0.0480 U	0.0510 U					
MW-14D-17-19	'17-19	11/14/2006	0.0280 U	0.0530 U		0.0390 U	0.0420 U					
MW-16D-13-15	'13-15	11/17/2006	0.0250 U	0.0470 U		0.0340 U	0.0370 U					
MW-16D-17-19	'17-19	11/20/2006	0.0240 U	0.0460 U		0.0330 U	0.0360 U					
MW-17D-15-17	'15-17	11/10/2006	0.0330 U	0.0610 U		0.0450 U	0.0480 U					
MW-17D-17-19	'17-19	11/10/2006	0.0250 U	0.0470 U		0.0350 U	0.0370 U					
MW-18D-13-15	'13-15	11/13/2006	0.0380 U	0.0720 U		0.0530 U	0.0560 U					
MW-18D-17-19	'17-19	11/13/2006	0.0260 U	0.0490 U		0.0360 U	0.0380 U					
MW-20D-12-14	'12-14	11/9/2006	0.0400 U	0.0750 U		0.0550 U	0.0590 U					
MW-20D-32-34	'32-32.9	11/10/2006	0.0230 U	0.0440 U		0.0320 U	0.0350 U					
MW-20D-36-38	'36-38	11/10/2006	0.0280 U	0.0530 U		0.0390 U	0.0420 U					
MW-21D-13-15	'13-13.7	11/16/2006	0.0380 U	0.0720 U		0.0530 U	0.0570 U					
MW-21D-15-17	'15-17	11/16/2006	0.0260 U	0.0500 U		0.0370 U	0.0390 U					
MW-23D-15-17	'15-16	11/15/2006	0.0350 U	0.0660 U		0.0480 U	0.0520 U					
MW-23D-37-39	'37-37.9	11/15/2006	0.0330 U	0.0620 U		0.0460 U	0.0490 U					
MW-25D-10-12	'10-12	11/21/2006	0.0860 U	0.160 U		0.120 U	0.130 U					
MW-25D-33-35	'33-35	12/18/2006	0.0310 U	0.0590 U		0.0430 U	0.0460 U					
MW-26S-8-10	'8-10	10/26/2006	0.0350 U	0.0650 U		0.0480 U	0.0510 U			13.0 JN		
MW-6D-0-2	'0-2	11/8/2006	0.0250 U	0.0480 U		0.0350 U	0.0380 U					
MW-6D-12-14	'12-14	11/8/2006	0.110 U	0.210 U		0.160 U	0.170 U					
MW-6D-16-18	'16-18	11/20/2006	0.0720 U	0.140 U		0.100 U	0.110 U					
MW-6D-30-32	'30-32	11/21/2006	0.0330 U	0.0630 U		0.0460 U	0.0500 U					
PCA-1-0-.5	'0-2	7/17/2001					0.0390 JB					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
PCA-1-4-6	'4-6	7/17/2001					0.00700 JB					
PCA-2-0-.5	'0-0.5	7/17/2001					0.00490 JB					
PCA-3-0-0.5	'0-0.5	9/13/2001					0.00600 JB					
PCA-3-4-6	'4-6	9/13/2001					0.0100 JB					
PCA-4-0-0.5	'0-0.5	9/13/2001					0.00560 JB					
PCA-4-4-6	'4-6	9/26/2001					0.00770 JB					
PCA-5-0.5-2	'0.5-2	9/7/2001					0.00430 JB					
PCA-5-0-0.5	'0-0.5	9/7/2001					0.00520 JB					
PCA-6-0-0.5	'0-0.5	9/7/2001					0.00630 U					
RR-1 0-0.5	'0-0.5	8/22/2001					0.00940 B				0.00680 JN	
RR-1 14-16	'14-16	8/22/2001					0.290 U			2.40 JN		
RR-10 0-.5	'0-0.5	10/12/2001					0.00640 U					
RR-11 0-.5	'0-0.5	10/12/2001					0.00630 JB					
RR-12 0-.5	'0-0.5	10/12/2001					0.00720 B					
RR-2-0-0.5	'0-0.5	9/13/2001					0.0137 B					
RR-2-8-10	'8-10	9/13/2001					0.0440 B					
RR-3-0-0.5	'0-0.5	9/13/2001					0.0169 B					
RR-4-0-0.5	'0-0.5	9/10/2001					0.0182 B					
RR-4-6-8	'6-8	9/13/2001					0.0100 JB					
RR-5-0-0.5	'0-0.5	9/10/2001					0.00720 JB					
RR-6-0-0.5	'0-0.5	9/10/2001					0.00630 JB					
RR-6-8-10	'8-10	9/10/2001					0.00520 B					
RR-7-0-0.5	'0-0.5	9/10/2001					0.00510 JB					
RR-8-0-0.5	'0-0.5	9/26/2001					0.00740 JB					
RR-8-6-8	'6-8	9/26/2001					0.0240 JB					
RR-9 0-.5	'0-0.5	10/12/2001					0.0165 B					
SC-1	'0-1	8/21/2001					0.0126 B					
SC-2	'0-1	8/22/2001					0.00660 U					
SC-3	'0-1	8/22/2001					0.00690 U					
SILO-B1-0-0.5	'0-0.5	9/6/2001					0.00530 JB					
SILO-B1-6-8	'6-8	9/6/2001					0.0210 JB			0.260 JN		
SILO-B2-0-0.5	'0-0.5	9/6/2001				0.0100 JN	0.00520 U					
SILO-B3-0-0.5	'0-0.5	9/6/2001					0.00500 JB					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
SILO-B3-6-8	'6-8	9/6/2001					0.00500 B					
SILO-B4-0-0.5	'0-0.5	9/6/2001					0.00800 B					
SPR-1-0-0.5	'0-0.5	9/5/2001					0.00660 B					
SPR-1-8-10	'8-10	9/5/2001					0.0134 B					
SPR-2A-0-0.5	'0-0.5	7/19/2001					0.00900 JB					
SPR-2A-8-10	'8-10	7/19/2001					0.305 J					
SPR-2B-0-0.5	'0-0.5	7/19/2001					0.0120 JB					
SPR-2B-10-12	'10-12	7/19/2001					1.10 U					
SPR-3 0-.5	'0-0.5	8/21/2001					0.430 U					
SPR-3 4-6	'4-6	8/21/2001					1.32					
SPR-4A-0-0.5	'0-0.5	7/19/2001					0.00500 JB					
SPR-4A-8-10	'8-10	7/19/2001					1.10 U					
SPR-4B-0-0.5	'0-0.5	8/22/2001					0.0332					
SPR-4B-4-6	'4-6	8/23/2001					0.00770 U					
SPR-4C-0-0.5	'0-0.5	8/23/2001					0.00830 B					
SPR-4C-4-6	'4-6	8/23/2001					0.360 U					
SPR-5-0-0.5	'0-0.5	9/5/2001					0.00770 B					
SPR-5-2-4	'2-4	9/5/2001				0.490 JN	0.00840 B					
SPR-6-0.5-2	'0.5-2	9/13/2001					0.00580 JB					
SPR-6-0-0.5	'0-0.5	9/13/2001					0.00530 JB					
SR-1-0-.5	'0-0.5	7/17/2001					0.00580 JB					
SR-2-0-.5	'0-0.5	7/17/2001					0.00670 JB					0.0130 JN
ST-1-0-0.5	'0-0.5	9/5/2001					0.00670 B					
ST-2-0-0.5	'0-0.5	9/5/2001					0.0103 B					
ST-3-0-0.5	'0-0.5	9/4/2001					0.00590 JB					
ST-3-4-6	'4-6	9/4/2001					0.0172 B					
TES-1-0-1	'0-1	12/5/2006					0.0490 U					
TES-2-0-1	'0-1	12/4/2006	0.0380 U	0.0710 U		0.0520 U	0.0560 U					
TES-3-0-1	'0-1	12/4/2006	0.0320 U	0.0610 U		0.0450 U	0.0480 U					
TES-4-0-1	'0-1	12/5/2006					0.0570 U					
TLN-1 .5-2	'0.5-2	8/20/2001					0.0132 B					
TLN-1 0-.5	'0-0.5	8/20/2001					0.00560 JB					
TLN-2-0-0.5	'0-0.5	7/19/2001					0.00760 JB					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001					0.00580 JB			0.530 JN		
TLN-3-2-4	'2-4	7/17/2001					0.00690 B					
TLN-4 0-.5	'0-0.5	8/20/2001					0.00540 JB					
TLN-4 0-.5 DUP	'0-0.5	8/20/2001					0.00820 B					
TLN-5 .5-2	'0.5-2	8/20/2001					0.0125 B					
TLN-5 0-.5	'0-0.5	8/20/2001					0.00820 B					
TLN-5-4-6	'4-6	8/30/2001					0.0151 B					
TLN-6 0-.5	'0-0.5	8/20/2001					0.00480 U					
TLS-10 0-.5	'0-0.5	8/21/2001					0.520 U					
TLS-10 8-10	'8-10	8/21/2001					0.620 U			1.10 JN		
TLS-1-0-0.5	'0-0.5	9/5/2001					0.0122 B					
TLS-11-0-0.5	'0-0.5	9/7/2001					0.00700 U					
TLS-2-0-0.5	'0-0.5	9/7/2001					0.00520 U					
TLS-2-6-8	'6-8	9/7/2001					0.0180 U					
TLS-3 0-.5	'0-0.5	8/21/2001					0.460 U					
TLS-4-0-0.5	'0-0.5	9/7/2001					0.00520 JB					
TLS-4-8-10	'8-10	9/7/2001					0.0307 B			0.110 JN		
TLS-5 0-0.5	'0-0.5	8/21/2001					0.0102 B					
TLS-5-8-10	'8-10	9/26/2001					0.0161 B					
TLS-6 0-.5	'0-0.5	8/21/2001					0.470 U					
TLS-6-3-5	'3-5	9/26/2001					0.00530 JB					
TLS-7 0-.5	'0-0.5	8/21/2001					0.550 U					
TLS-8-0-0.5	'0-0.5	9/7/2001					0.00570 U					
TLS-8-6-8	'6-8	9/7/2001					0.0110 JB					
TLS-9 0-.5	'0-0.5	8/21/2001					0.450 U					
TP-105	'0-0	6/8/2007	0.0220 U	0.0350 U		0.0360 U	0.0340 U					
TP-105A	'0-0	6/8/2007	0.0180 U	0.0300 U		0.0310 U	0.0290 U					
TP-106-A	'0-0	6/8/2007	0.0220 U	0.0360 U		0.0370 U	0.0350 U					
TP-106-B	'0-0	6/8/2007	0.0140 U	0.0230 U		0.0240 U	0.0220 U					
WWT-1-0-0.5	'0-0.5	7/19/2001					0.0131 B					
WWT-101-15-17	'15-17	11/6/2006	0.0310 U	0.0590 U		0.0430 U	2.18 J					
WWT-101-21-23	'21-23	11/6/2006	0.0260 U	0.0500 U		0.0360 U	0.0597 J					
WWT-1-12-14	'12-14	8/23/2001					245.			0.0360 JN		

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropyl-benzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methane, Dimethoxy- mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	Naphthalene, 1,2,3,4-Tetrahydro- mg/kg	Naphthalene, Chloro- mg/kg	Naphthalene mg/kg	N-Butanal mg/kg	N-Pentane(c5) mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001					0.0299 B					
WWT-2-12-14	'12-14	8/23/2001					761.					
WWT-3-0-0.5	'0-0.5	8/23/2001					0.00970 B					
WWT-3-12-14	'12-14	8/23/2001					287.					

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
SRS								230		290	5	91000
12K-B1-0.5-2	'0.5-2	9/6/2001						0.00480 U			0.00480 U	0.00180
12K-B1-0-0.5	'0-0.5	9/6/2001						0.00540 U			0.00540 U	0.00220
12K-B2-0.5-2	'0.5-2	9/6/2001						0.00460 U			0.00460 U	0.000920 U
12K-B2-0-0.5	'0-0.5	9/6/2001						0.00500 U			0.00500 U	0.00100 U
150K-1-0.5-2	'0.5-2	9/10/2001						0.00420 U			0.00420 U	0.000830 U
150K-1-0-0.5	'0-0.5	9/10/2001						0.00450 U			0.00450 U	0.000940
230-B1-0.5	'0-0.5	10/2/2001						0.00540 U			0.00540 U	0.00110 U
230-B10-0-0.5	'0-0.5	8/30/2001						0.0310 U			0.0310 U	0.0148 J
230-B10-1.5-2	'1.5-2	8/30/2001						0.00650 U			0.00650 U	0.00130 U
230-B11-0-0.5	'0-0.5	8/30/2001						0.00540 U			0.00540 U	0.00160 J
230-B11-1.5-2	'1.5-2	8/30/2001						0.00660 U			0.00660 U	0.00660 U
230-B1-4-6	'4-6	10/2/2001						3.00 U			3.00 U	1.57
230-B2-0-0.5	'0-0.5	8/30/2001						0.00540 U			0.00540 U	0.00540 U
230-B2-1.5-2	'1.5-2	8/30/2001						0.00440 U			0.00440 U	0.000880 U
230-B3-0-0.5	'0-0.5	8/30/2001						0.00700 U			0.00700 U	0.00700 U
230-B3-1.5-2	'1.5-2	8/30/2001						0.00480 U			0.00480 U	0.00480 U
230-B4-0-0.5	'0-0.5	8/30/2001						0.00500 U			0.00500 U	0.00130 J
230-B4-1.5-2	'1.5-2	8/30/2001						0.00580 U			0.00580 U	0.00120 U
230-B5-0-0.5	'0-0.5	9/13/2001						0.00580 U			0.00320 J	0.00210
230-B5-1.5-2	'1.5-2	9/13/2001						0.00610 U			0.00610 U	0.00220
230-B6 0-0.5	'0-0.5	8/22/2001			0.0260 JN			0.00500 U			0.00500 U	0.00500 U
230-B6 1.5-2	'1.5-2	8/22/2001						0.00490 U			0.00490 U	0.00490 U
230-B7 0-0.5	'0-0.5	8/22/2001			0.0150 JN			0.00760 U			0.00760 U	0.00760 U
230-B7 1.5-2	'1.5-2	8/22/2001						0.00520 U			0.00520 U	0.00520 U
230-B8 1.5-2	'1.5-2	8/22/2001						0.00640 U			0.00640 U	0.00640 U
230-B9 0-0.5	'0-0.5	8/22/2001						0.00560 U			0.00560 U	0.00560 U
230-B9 0-0.5	'0-0.5	8/22/2001			0.0110 JN			0.00510 U			0.00510 U	0.00510 U
230-B9 1.5-2	'1.5-2	8/22/2001						0.00520 U			0.00520 U	0.00520 U
231-B1-0-0.5	'0-0.5	10/5/2001						0.00620 U			0.00620 U	0.00120 UJ
231-B10-0-0.5	'0-0.5	9/17/2001						0.00960 U			0.00960 U	0.00190 U
231-B11-0-0.5	'0-0.5	9/19/2001						0.00600 U			0.00600 U	0.00120 U
231-B11-8-10	'8-10	9/19/2001						0.00920 U			0.00920 U	0.00180 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001						0.00700 U			0.00700 U	0.00140 U
231-B13-0-0.5	'0-0.5	9/19/2001						0.0140 U			0.0128 J	0.00280 U
231-B13-8-10	'9-10	9/27/2001						12.0 U			12.0 U	2.30 U
231-B14-0-0.5	'0-0.5	9/19/2001						0.00520 U			0.00520 U	0.00100 U
231-B2-0.5-2	'0.5-2	8/22/2001						0.00560 U			0.00560 U	0.00190 J
231-B2-0-0.5	'0-0.5	8/22/2001						0.00580 U			0.00580 U	0.00580 U
231-B3-0-0.5	'0-0.5	8/22/2001						0.00580 U			0.00580 U	0.00580 U
231-B4-0-0.5	'0-0.5	8/30/2001						0.00870 U			0.00870 U	0.00870 U
231-B4-6-8	'6-8	9/27/2001						0.00520 U			0.00520 U	0.00340
231-B5-0.5-2	'0.5-2	9/19/2001						0.00540 U			0.00540 U	0.00110 U
231-B6-0-0.5	'0-0.5	9/27/2001	0.0110 JN					0.00540 U			0.0154	0.00460
231-B6-4-6	'4-6	9/27/2001						0.0140 U			0.0140 U	0.00270 U
231-B7-0-0.5	'0-0.5	9/13/2001						0.00570 U			0.00640	0.00110 U
231-B8-0-0.5	'0-0.5	9/27/2001			0.0380 JN			0.0270 UJ			0.0270 UJ	0.00540 UJ
231-B8-8-10	'8-10	9/27/2001						4.80 U			6.48	0.960 U
231-B9-0.5-2	'0.5-2	9/27/2001						0.00860 U			0.00860 U	0.00170 U
231-B9-0-0.5	'0-0.5	9/27/2001						0.00800 U			0.00800 U	0.00160 U
240-1-0-0.5	'0-0.5	9/26/2001						0.00520 U			0.00520 U	0.00100 U
240-1-8-10	'8-10	10/1/2001						0.00600 U			0.00600 U	0.00120 U
5K-B1-0-0.5	'0-0.5	10/1/2001						0.00540 U			0.00540 U	0.00110 U
5K-B2-0-0.5	'0-0.5	8/31/2001						0.00710 U			0.00710 U	0.00140 U
5K-B2-8-10	'8-10	8/31/2001						0.00480 U			0.00480 U	0.000950 U
5K-B3-0-0.5	'0-0.5	9/26/2001						0.00570 U			0.00570 U	0.00110 U
5K-B4-0-0.5	'0-0.5	10/1/2001						0.00650 U			0.00650 U	0.00130 U
5K-B4-4-6	'4-6	10/1/2001						0.310 U			0.310 U	0.0640
5K-B5-0-0.5	'0-0.5	8/31/2001						0.00550 U			0.00550 U	0.00270
5K-B5-4-6	'4-6	9/26/2001						0.00510 U	0.920 JN		0.00510 U	0.00230
AB-1-0-0.5	'0-0.5	9/4/2001						0.0210 U			0.0210 U	0.00420 U
AB-2-0.5-2	'0.5-2	9/4/2001						0.00760 U			0.136	0.00150 U
AB-2-0-0.5	'0-0.5	9/4/2001						0.00500 U			0.00860	0.00100 U
ADN-1-0-0.5	'0-0.5	9/5/2001						0.00470 U			0.00470 U	0.000940 U
ADN-1-8-10	'8-10	9/5/2001						0.880 U			0.880 U	0.180 U
ADN-2-0-0.5	'0-0.5	9/5/2001						0.00480 U			0.00480 U	0.000950 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
ADN-2-10-11	'10-11	9/27/2001						0.00520 U			0.00520 U	0.00160
ADS-1-0-.5	'0-0.5	7/17/2001						0.00760 U			0.00760 U	0.00760 U
ADS-10-0-0.5	'0-2	7/18/2001						0.00590 U			0.00590 U	0.00590 U
ADS-101-0-1	'0-1	12/5/2006		0.0290 U				0.0190 U		0.0320 U	0.0480 U	0.0310 U
ADS-101-1-3	'1-3	12/5/2006		0.0230 U				0.0150 U		0.0260 U	0.0380 U	0.0250 U
ADS-102-0-1.5	'0-2	12/5/2006		0.0240 U				0.0160 U		0.0280 U	0.0410 U	0.0270 U
ADS-102-7-8	'4-8	12/6/2006		0.0290 U				0.0190 U		0.0330 U	0.0480 U	0.0320 U
ADS-10-4-6	'4-6	7/18/2001						0.0120 U			0.0120 U	0.0120 U
ADS-11-0-0.5	'0-2	7/18/2001						0.00620 U			0.00620 U	0.00620 U
ADS-12-0.5-2	'0.5-2	7/18/2001						0.00560 U			0.00560 U	0.00560 U
ADS-12-0-0.5	'0-0.5	7/18/2001						0.00820 U			0.00820 U	0.00820 U
ADS-2-0-0.5	'0-0.5	7/18/2001						0.00610 U			0.00610 U	0.00610 U
ADS-2-4-6	'4-6	7/18/2001						0.00490 U			0.00490 U	0.00140 J
ADS-3-0-0.5	'0-0.5	7/18/2001						0.00570 U			0.00570 U	0.00570 U
ADS-4-0-0.5	'0-2	7/18/2001						0.00600 U			0.00600 U	0.00600 U
ADS-4-12-14	'12-14	7/18/2001						0.00880 U			0.00880 U	0.00880 U
ADS-5-0-0.5	'0-0.5	7/18/2001						0.00530 U			0.00530 U	0.00530 U
ADS-5-4-6	'4-6	9/27/2001						0.00500 U			0.00500 U	0.00100 U
ADS-6-0.5-2	'0.5-2	7/18/2001						0.00560 U			0.00250 J	0.00390 J
ADS-6-0-0.5	'0-0.5	7/18/2001						0.00480 U			0.00210 J	0.00480 U
ADS-7-0-.5	'0-0.5	7/17/2001						0.00520 U			0.00520 U	0.00520 U
ADS-8-0-0.5	'0-0.5	7/18/2001						0.00960 U			0.00960 U	0.00960 U
ADS-8-4-6	'4-6	7/18/2001						0.00910 U			0.00910 U	0.00910 U
ADS-9-0-0.5	'0-0.5	7/18/2001						0.00930 U			0.00930 U	0.00930 U
BLIND DUP	'0-0	8/21/2001						0.00620 U			0.00620 U	0.00620 U
BSL-10-0-1	'0-1	9/21/2001						0.00700 U			0.00700 U	0.00140 U
BSL-1-0-1	'0-1	9/20/2001						0.00580 U			0.00580 U	0.00120 U
BSL-11-0-1	'0-1	9/26/2001						0.00580 U			0.00580 U	0.00120 U
BSL-12-0-1	'0-1	9/26/2001						0.00520 U			0.00520 U	0.00100 U
BSL-1-4-6	'4-6	9/20/2001						0.00720 U			0.00720 U	0.00140 U
BSL-2-0-1	'0-1	9/21/2001						0.00760 U			0.00760 U	0.00150 U
BSL-3-0-0.5	'0-0.5	9/20/2001						0.00520 U			0.00520 U	0.00100 U
BSL-4-0-1	'0-0.5	9/21/2001						0.00720 U			0.00720 U	0.00140 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
BSL-4-4-6	'4-6	9/21/2001						0.0120 U			0.0120 U	0.00240 U
BSL-5-0-.5	'0-0.5	9/21/2001						0.00520 U			0.00520 U	0.00100 U
BSL-6-0-1	'0-1	9/26/2001						0.00720 U			0.00720 U	0.00140 U
BSL-6-1-2	'1-2	9/26/2001						0.0180 U			0.0180 U	0.00350 U
BSL-7-0-.5	'0-0.5	9/21/2001						0.00640 U			0.00640 U	0.00130 U
BSL-8-0-1	'0-1	9/26/2001						0.00940 U			0.00940 U	0.00190 U
BSL-9-.5-2	'0.5-2	9/21/2001						0.0100 U			0.0100 U	0.00200 U
BSL-9-0-.5	'0-0.5	9/21/2001			0.00610 JN			0.00570 U			0.00570 U	0.00110 U
BT-B1-0-0.5	'0-0.5	9/18/2001			0.0450 JN		0.0160 JN	0.00560 U			0.00560 U	0.00110 U
BT-B2-0.5-2	'0.5-2	9/18/2001						0.00420 U			0.00420 U	0.000830 U
BT-B2-0-0.5	'0-0.5	9/18/2001						0.00460 U			0.00460 U	0.000920 U
BT-B3-0-0.5	'0-0.5	9/18/2001						0.00580 U			0.00580 U	0.00120 U
BT-B4-0.5-2	'0.5-2	8/30/2001						0.00490 U			0.00490 U	0.00490 U
BT-B4-0-0.5	'0-0.5	8/30/2001						0.00660 U			0.00660 U	0.00240 J
BT-B5-0-.5	'0-0.5	10/2/2001						0.00540 U			0.00140 J	0.00110 U
BT-B6-0.5-2	'0.5-2	9/17/2001						0.00950 U			0.00950 U	0.00190 U
BT-B6-0-0.5	'0-0.5	9/17/2001						0.00700 U			0.00700 U	0.00140 U
CF-1-0-0.5	'0-0.5	8/31/2001			0.00650 JN			0.00480 U			0.00480 U	0.000950 U
CF-1-2-4	'2-4	8/31/2001						0.00800 U			0.00800 U	0.00160 U
CF-2-0-0.5	'0-0.5	8/28/2001						0.00650 U			0.00650 U	0.00650 U
CF-3-0.5-2	'0.5-2	8/28/2001						0.0120 U			0.0120 U	0.0120 U
CF-3-0-0.5	'0-0.5	8/28/2001						0.00900 U			0.00900 U	0.00900 U
CF-4-0-0.5	'0-0.5	8/28/2001						0.00640 U			0.00640 U	0.00640 U
CF-5-0-0.5	'0-0.5	8/28/2001						0.00570 U			0.00570 U	0.00570 U
CF-5-4-6	'4-6	8/28/2001						0.00500 U			0.00500 U	0.00500 U
CF-6-0-0.5	'0-0.5	8/28/2001						0.00520 U			0.00520 U	0.00520 U
CF-7-0-0.5	'0-0.5	8/28/2001						0.00520 U			0.00520 U	0.00520 U
CF-7-4-6	'4-6	8/28/2001						0.00600 U			0.00600 U	0.00600 U
CF-8-0-0.5	'0-0.5	8/28/2001			0.0100 JN		0.00550 JN	0.00540 U			0.00540 U	0.00540 U
CF-9-0.5-2	'0.5-2	8/31/2001						0.00710 U			0.00710 U	0.00140 U
CF-9-0-0.5	'0-0.5	8/31/2001						0.00480 U			0.00480 U	0.000960 U
DC-B12-0-0.5	'0-0.5	10/3/2001						0.00260 J			0.00980 U	0.00260
DC-B12-2-4	'2-4	10/3/2001						0.00190 J			0.00680 U	0.00280

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001						0.00480 U			0.00120 J	0.000950 U
DC-SS11-0-0.5	'0-0.5	9/17/2001						0.00430 U			0.00430 U	0.000860 U
DC-SS13-0-0.5	'0-0.5	9/17/2001						0.00850 U			0.00850 U	0.00170 U
DC-SS15-0-0.5	'0-0.5	9/17/2001						0.00600 U			0.00900	0.00120 U
DC-SS17-0-0.5	'0-0.5	9/17/2001						0.00550 U			0.00550 U	0.00110 U
DC-SS2-0-0.5	'0-0.5	9/17/2001			0.00590 JN			0.00520 U			0.000790 J	0.00100 U
DC-SS3-0-0.5	'0-0.5	9/17/2001			0.0120 JN			0.00590 U			0.00590 U	0.000880 J
DC-SS6-0-0.5	'0-0.5	9/17/2001						0.00780 U			0.00780 U	0.00130 J
DC-SS7-0-0.5	'0-0.5	9/17/2001			0.0110 JN			0.00640 U			0.00640 U	0.00130 U
DC-SS9-0-0.5	'0-0.5	9/17/2001						0.00470 U			0.00470 U	0.000940 U
DSP-1-0-0.5	'0-0.5	10/3/2001			0.0180 JN			0.00720 U			0.00720 U	0.00120 J
DSP-1-4-6	'4-6	11/19/2001						0.00620 U			0.00620 U	0.00120 U
DSP-2-0-0.5	'0-0.5	9/4/2001						0.00580 U			0.00580 U	0.00120 U
DSP-3-0-0.5	'0-0.5	9/4/2001						0.00560 U			0.00450 J	0.00110 U
DSP-3-2-4	'2-4	9/4/2001						0.00500 U			0.00500 U	0.00100 U
DSP-4-0-0.5	'0-0.5	9/4/2001						0.00560 U			0.00560 U	0.00110 U
DSP-4-4-6	'4-6	9/26/2001						0.00520 U			0.00520 U	0.00100 U
DUP-01-010824	'0-0.5	8/24/2001			0.0100 JN			0.00630 U			0.00630 U	0.00630 U
DUP-01-010831	'2-4	8/31/2001						0.00880 U			0.00880 U	0.00180 U
DUP-01-010904	'0-0.5	9/4/2001						0.00520 U			0.00520 U	0.00100 U
DUP-01-010905	'8-10	9/5/2001						0.00530 U			0.00530 U	0.0288
DUP-01-010906	'0-8	9/6/2001						0.00880 U	1.80 JN		0.00880 U	0.298
DUP-01-010913	'0-0.5	9/13/2001						0.00910 U			0.00910 U	0.00180 U
DUP-01-010917	'0-0.5	9/17/2001						0.00580 U			0.00580 U	0.00120 U
DUP-01-010926	'1-2	9/26/2001						0.0120 U			0.0120 U	0.00270
DUP-01-010927	'4-6	9/27/2001						0.00760 U			0.00760 U	0.00150 U
DUP-01-021001	'0-0	10/2/2001						0.00430 U			0.00430 U	0.000860 U
DUP-01-08 2201	'1.5-2	8/22/2001						0.00600 U			0.00600 U	0.00600 U
DUP-01-121001	'0-0	10/12/2001						0.00700 U			0.00700 U	0.00140 U
DUP-01-170402	'0-0	4/17/2002						1.40 U			1.40 U	0.280 U
DUP-02-010913	'0-0.5	9/13/2001						0.00520 U			0.00340 J	0.00100 U
DUP-02-010921	'0-1	9/21/2001						0.00630 U			0.00630 U	0.00130 U
DUP-02-010926	'4-6	9/26/2001						0.00540 U			0.00540 U	0.00110 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
DUP060807	'0-0	6/8/2007		0.0160 U				0.0140 U		0.0400 U	0.0210 U	0.0260 U
DUP-1-010828	'0-0.5	8/28/2001						0.00560 U			0.00560 U	0.00560 U
DUP-1-010921	'0-0.5	9/21/2001						0.00680 U			0.00680 U	0.00140 U
DUP110606	'15-17	11/6/2006		0.0340 U				0.0230 U		0.0390 U	0.0570 U	0.0380 U
DUP112006	'16-18	11/20/2006		0.0860 U				0.0570 U		0.0970 U	0.140 U	0.0940 U
DUP112106	'10-12	11/21/2006		0.0930 U				0.0610 U		0.100 U	0.150 U	0.100 U
DUP-120506	'0-4	12/5/2006		0.0240 U				0.0160 U		0.0270 U	0.0400 U	0.0270 U
DUP-120606	'0-4	12/6/2006	2.30 JN	0.123				0.0150 U		0.0260 U	0.0380 U	0.403
DUPE071801	'0-0.5	7/18/2001						0.00660 U			0.00660 U	0.00660 U
EC-1	'0-1	8/21/2001						0.00640 U			0.00640 U	0.00640 U
EC-2	'0-1	8/21/2001						0.00850 U			0.00850 U	0.00850 U
EC-3	'0-1	8/21/2001						0.00700 U			0.00700 U	0.00700 U
EC-4	'0-1	8/21/2001						0.00880 U			0.00880 U	0.00880 U
EC-5	'0-1	8/21/2001			0.00670 JN			0.00510 U			0.00510 U	0.00510 U
EC-6	'0-1	8/21/2001			0.0230 JN		0.0100 JN	0.00650 U			0.00650 U	0.00650 U
EC-7	'0-1	8/21/2001			0.0110 JN		0.00830 JN	0.00740 U			0.00740 U	0.00740 U
EC-8	'0-1	8/21/2001			0.0130 JN			0.00670 U			0.00670 U	0.00670 U
EC-9	'0-1	8/21/2001			0.0140 JN			0.00640 U			0.00640 U	0.00640 U
ESR-1-0-1	'0-0.5	9/4/2001						0.00560 U			0.00560 U	0.00110 U
ESR-1-4-6	'4-6	9/4/2001						0.00570 U			0.00570 U	0.00110 U
HB-101A	'17-17	3/5/2007		0.0270 U				0.0180 U		0.0310 U	0.0450 U	0.0300 U
HB-102A	'0-0	3/13/2007		0.0770 U				0.0510 U		0.0870 U	0.130 U	0.0840 U
HB-102B	'0-0	3/14/2007		0.0300 U				0.0200 U		0.0705	0.0500 U	0.0330 U
HB-102C	'0-0	3/14/2007		0.0260 U				0.0170 U		0.0290 U	0.0430 U	0.0280 U
H-B-103A	'17-17	2/20/2007		0.0440 U				0.0290 U		0.0500 U	0.0740 U	0.0490 U
H-B-104A	'17-17	2/23/2007		0.0320 U				0.0210 U		0.0360 U	0.0540 U	0.0350 U
H-B-104B	'17-17	2/23/2007		0.0270 U				0.0180 U		0.0300 U	0.0440 U	0.0290 U
H-B-104C	'17-17	2/23/2007		0.175				0.0230 U		0.0390 U	0.0580 U	0.0703
H-B-104D	'17-17	2/27/2007		0.0290 U				0.0190 U		0.0330 U	0.0490 U	0.0320 U
H-B-104E	'17-17	2/27/2007		0.0270 U				0.0180 U		0.0310 U	0.0450 U	0.0300 U
H-B-105C	'17-17	2/8/2007		0.0260 U				0.0170 U		0.0290 U	0.0430 U	0.0280 U
H-B-105D	'17-17	2/8/2007		0.0300 U				0.0200 U		0.0340 U	0.0500 U	0.0330 U
H-B-105E	'0-0	2/8/2007		0.0300 U				0.0200 U		0.0340 U	0.0510 U	0.0330 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
HB-1A	'6.75-6.75	4/18/2002						0.0100 U			0.0100 U	0.0279
HB-3A	'5.25-5.25	4/17/2002						1.80 U			1.80 U	0.370 U
HB-3B	'4.5-4.5	4/17/2002						0.00440 U			0.00440 U	0.000870 U
HB-3C	'4.5-4.5	4/18/2002						0.00450 U			0.00450 U	0.000900 U
HB-3D	'4.5-4.5	4/18/2002						0.00670 U			0.00670 U	0.00240
HB-4A	'5.33-5.33	4/19/2002						0.00510 U			0.00510 U	0.00730
HB-5A	'3-3	4/22/2002						0.00510 U			0.00510 U	0.00210
HB-7A	'5-5	4/19/2002						0.00600 U			0.00600 U	0.00140
HB-8A	'3-3	4/23/2002						0.00680 U			0.00680 U	0.00140 U
HB-8B	'4.83-4.83	4/23/2002						0.00720 U			0.00720 U	0.00140 U
HB-8C	'5.5-5.5	4/23/2002						0.00620 U			0.00640	0.0684
HB-9A	'4.75-4.75	4/24/2002						0.00560 U			0.00560 U	0.00630
HF-B1-0-0.5	'0-0.5	9/10/2001						0.0120 U			0.0222	0.00230 U
HF-B1-8-10	'8-10	9/10/2001						0.00400 U			0.00400 U	0.000810 U
HF-B2-0-0.5	'0-0.5	9/4/2001						0.00480 U			0.00480 U	0.000970 U
HF-B2-4-6	'4-6	9/4/2001						0.00600 U			0.00600 U	0.00120 U
HF-B3-0-.5	'0-0.5	10/2/2001						0.00610 U			0.00610 U	0.00120 U
HF-B3-8-10	'8-10	10/2/2001						0.00680 U			0.00680 U	0.00140 U
IB-1-0-2	'0-2	4/8/2002						0.00590 U			0.00150 J	0.00120 U
IB-1-4-6	'4-6	4/8/2002						0.00600 U			0.00600 U	0.00180
IB-2-12-14	'12-14	4/8/2002						0.00580 U			0.00130 J	0.00120
IB-2-4-6	'4-6	4/8/2002						0.00510 U			0.00510 U	0.00100 U
IB-3-4-6	'4-6	4/8/2002						0.00560 U			0.00480 J	0.00550
IB-3-8-10	'8-10	4/8/2002						0.00880 U			0.00880 U	0.00210
LB-101-0-1	'0-1	12/6/2006		0.0270 U				0.0180 U		0.0300 U	0.0440 U	0.0290 U
LB-101-1-3	'1-3	12/6/2006		0.0210 U				0.0140 U		0.0240 U	0.0360 U	0.0230 U
LB-102-0-1	'0-3	12/6/2006		0.0290 U				0.0190 U		0.0330 U	0.0480 U	0.0320 U
LB-102-1-3	'3-7	12/6/2006		0.0240 U				0.0160 U		0.0270 U	0.0400 U	0.0260 U
LB-103-0-1	'0-1	12/6/2006		0.0280 U				0.0190 U		0.0320 U	0.0470 U	0.0310 U
LB-103-5-7	'5-7	12/6/2006		0.0510 J				0.0240 U		0.0400 U	0.0600 U	0.142
LHP-101-0-1	'0-1	12/4/2006		0.0398 J				0.0210 U		0.0360 U	0.0540 U	0.0425 J
LHP-101-5-8	'4-8	12/4/2006		0.0884 J				0.0380 U		0.0650 U	0.0960 U	0.185
LHP-102-0-1	'0-1	12/5/2006		0.0784				0.0220 U		0.0380 U	0.0560 U	0.0770

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
LHP-102-7-9	'7-9	12/5/2006		0.000660 U				0.000440 U		0.000750 U	0.00110 U	0.000720 U
LHP-102-7-9	'7-9	12/6/2006		0.125				0.0350 U		0.0600 U	0.0880 U	0.242
LHP-103-0-1	'0-1	12/5/2006		0.0280 U				0.0190 U		0.0320 U	0.0470 U	0.0310 U
LHP-103-1-3	'1-3	12/5/2006		0.0310 U				0.0200 U		0.0350 U	0.0520 U	0.0340 U
LHP-104-0-1	'0-1	12/5/2006		0.0270 U				0.0180 U		0.0310 U	0.0450 U	0.0300 U
LHP-104-7-9	'4-8	12/5/2006		0.0607 J				0.0270 U		0.0460 U	0.0680 U	0.103
LHP-105-0-1	'0-1	12/5/2006		0.0250 U				0.0160 U		0.0280 U	0.0410 U	0.0270 U
LHP-105-1-3	'1-3	12/5/2006		0.0310 U				0.0210 U		0.0360 U	0.0520 U	0.0340 U
LHP-106-0-1	'0-1	12/4/2006		0.0240 U				0.0160 U		0.0270 U	0.0400 U	0.0260 U
LHP-106-1-3	'1-3	12/4/2006		0.0350 U				0.0230 U		0.0390 U	0.0580 U	0.0380 U
LHP-107-0-1	'0-1	12/5/2006		0.0230 U				0.0150 U		0.0260 U	0.0380 U	0.0250 U
LHP-107-5-7	'4-8	12/5/2006		0.0280 U				0.0190 U		0.0320 U	0.0470 U	0.0310 U
LHP-108-0-1	'0-1	12/6/2006		0.0290 U				0.0190 U		0.0330 U	0.0490 U	0.0320 U
LHP-108-3-7	'3-7	12/6/2006		0.0300 U				0.0200 U		0.0340 U	0.0500 U	0.0330 U
LHP-109-0-1	'0-1	12/6/2006		0.0300 U				0.0200 U		0.0340 U	0.0500 U	0.0330 U
LHP-109-7-9	'7-9	12/6/2006		0.0480 U				0.0320 U		0.0540 U	0.0790 U	0.0794 J
LHP-110-0-1	'0-1	12/4/2006		0.0510 U				0.0340 U		0.0580 U	0.0860 U	0.0560 U
LHP-111-0-1	'0-1	12/4/2006		0.0240 U				0.0160 U		0.0270 U	0.0400 U	0.0270 U
LHP-112-0-1	'0-1	12/4/2006		0.0250 U				0.0170 U		0.0290 U	0.0420 U	0.0280 U
LHP-113-0-1	'0-1	12/4/2006		0.0240 U				0.0160 U		0.0270 U	0.0400 U	0.0260 U
LHP-114-0-1	'0-1	12/4/2006		0.0230 U				0.0160 U		0.0270 U	0.0390 U	0.0260 U
LHP-115-0-1	'0-1	12/4/2006		0.0230 U				0.0150 U		0.0260 U	0.0380 U	0.0250 U
LHP-116-0-1	'0-1	12/4/2006		0.0260 U				0.0170 U		0.0290 U	0.0430 U	0.0280 U
LHP-117-0-1	'0-1	12/4/2006		0.0270 U				0.0180 U		0.0310 U	0.0450 U	0.0300 U
LHP-118-0-1	'0-1	12/4/2006		0.0758				0.0230 U		0.0390 U	0.0580 U	0.147
LHP-119-0-1	'0-1	12/4/2006		0.0340 U				0.0220 U		0.0380 U	0.0560 U	0.0370 U
LHP-120-0-1	'0-1	12/4/2006		0.0450 U				0.0300 U		0.0510 U	0.0750 U	0.0490 U
LHP-121-0-1	'0-1	12/6/2006		0.186				0.0220 U		0.0380 U	0.0550 U	0.325
LHP-122-0-1	'0-1	12/6/2006		0.0270 U				0.0180 U		0.0300 U	0.0450 U	0.0290 U
LHP-123-0-1	'0-1	12/4/2006		0.0290 U				0.0200 U		0.0330 U	0.0490 U	0.0320 U
LHP-124-.5-2	'0.5-2	10/27/2006		0.0380 U				0.0250 U		0.0430 U	0.0640 U	0.0420 U
LHP-124-2-4	'2-4	10/27/2006		0.0270 U				0.0180 U		0.0310 U	0.0450 U	0.0300 U
LHP-124-28-30	'28-30	10/31/2006		0.0380 U				0.0250 U		0.0430 U	0.0630 U	0.0410 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006		0.0300 U				0.0200 U		0.0340 U	0.0510 U	0.0330 U
LHP-125-10.5-12	'10.5-12	11/1/2006		0.0360 U				0.0240 U		0.0400 U	0.0590 U	0.0390 U
LHP-125-12-14	'12-14	11/1/2006		0.0280 U				0.0180 U		0.0310 U	0.0460 U	0.0310 U
LHP-125-4-6	'4-6	10/27/2006		0.0320 U				0.0210 U		0.0360 U	0.0530 U	0.0350 U
LHP-126-10.5-12	'10.5-12	11/1/2006		0.240 UJ				0.160 UJ		0.270 UJ	0.400 UJ	0.260 UJ
LHP-126-14-16	'14-16	11/1/2006		0.0290 U				0.0200 U		0.0330 U	0.0490 U	0.0320 U
LHP-126-2-4	'2-4	10/26/2006		0.0300 U				0.0200 U		0.0340 U	0.0510 U	0.0354 J
LHP-126-8-10	'9-10	10/26/2006		0.0450 U				0.0300 U		0.0510 U	0.0750 U	0.0490 U
LHP-127-0-1	'0-1	12/6/2006		0.131				0.0230 U		0.0390 U	0.0580 U	0.119
LHP-127-3-5	'3-5	12/6/2006		0.0295 J				0.0180 U		0.0300 U	0.0450 U	0.0538 J
LHP-128-0-1	'0-4	12/6/2006		0.171				0.0150 U		0.0250 U	0.0370 U	0.533
LHP-128-7-8	'17-17	12/6/2006		0.0662 J				0.0320 U		0.0540 U	0.0790 U	0.174
LP-1-0-0.5	'0-0.5	8/27/2001						0.00620 U			0.00620 U	0.00620 U
LP-10-0.5-2	'0.5-2	8/27/2001						0.00510 U			0.00820	0.00510 U
LP-10-0-0.5	'0-0.5	8/27/2001						0.00620 U			0.00620 U	0.00190 J
LP-101-11-13	'11-13	11/2/2006		0.0850 U				0.0560 U		0.0960 U	0.140 U	0.0930 U
LP-101-14-16	'14-16	11/2/2006		0.0760 U				0.0510 U		0.0870 U	0.130 U	0.0840 U
LP-101-26-28	'26-28	11/2/2006		0.0270 U				0.0180 U		0.0310 U	0.0460 U	0.0300 U
LP-101-50-52	'50-52	11/2/2006		0.0280 U				0.0180 U		0.0310 U	0.0460 U	0.0300 U
LP-11-0-0.5	'0-0.5	8/27/2001						0.00670 U			0.00670 U	0.00670 U
LP-12-0-0.5	'0-0.5	8/27/2001						0.00720 U			0.00720 U	0.00720 U
LP-12-4-6	'4-6	8/27/2001						0.00580 U			0.00580 U	0.00580 U
LP-13-0-0.5	'0-0.5	8/24/2001						0.00500 U			0.00500 U	0.00500 U
LP-14-0.5-2	'0.5-2	8/24/2001						0.00540 U			0.00540 U	0.00540 U
LP-14-0-0.5	'0-0.5	8/24/2001						0.00640 U			0.00640 U	0.00640 U
LP-15-0-0.5	'0-0.5	8/24/2001						0.00680 U			0.00680 U	0.00680 U
LP-16-0.5-2	'0.5-2	8/27/2001						0.00440 U			0.00440 U	0.00440 U
LP-16-0-0.5	'0-0.5	8/27/2001						0.00730 U			0.00730 U	0.00730 U
LP-2-0.5-2	'0.5-2	8/28/2001						0.00480 U			0.00870	0.00480 U
LP-2-0-0.5	'0-0.5	8/28/2001						0.00690 U			0.00690 U	0.00690 U
LP-3-0-0.5	'0-0.5	8/27/2001						0.00570 U			0.00570 U	0.00570 U
LP-4 .5-2	'0.5-2	8/21/2001						0.640 U			0.266 J	0.640 U
LP-4 0-.5	'0-0.5	8/21/2001						0.580 U			0.242 J	0.580 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001						0.00620 U			0.00620 U	0.00620 U
LP-6-0-0.5	'0-0.5	8/27/2001						0.00640 U			0.00640 U	0.00640 U
LP-6-4-6	'4-6	8/27/2001			0.00680 JN			0.00660 U			0.00660 U	0.00660 U
LP-7-0-0.5	'0-0.5	8/24/2001						0.00500 U			0.00500 U	0.00500 U
LP-8-0-0.5	'0-0.5	8/24/2001						0.00620 U			0.00620 U	0.00620 U
LP-8-10-12	'10-12	8/24/2001						0.0120 U	1.10 JN		0.0120 U	0.0120 U
LP-9-0-0.5	'0-0.5	8/24/2001						0.00700 U			0.00700 U	0.00700 U
MW-11D-12-14	'12-14	12/14/2006		0.0950 U				0.0630 U		0.110 U	0.160 U	0.100 U
MW-11D-14-16	'14-16	12/14/2006		0.0330 U				0.0220 U		0.0380 U	0.0646 J	0.0370 U
MW-11D-16-18	'16-18	12/14/2006		0.0310 U				0.0210 U		0.0360 U	0.0530 J	0.0350 U
MW-14D-13-15	'13-15	11/14/2006		0.0360 U				0.0240 U		0.0410 U	0.0610 U	0.0400 U
MW-14D-17-19	'17-19	11/14/2006		0.0300 U				0.0200 U		0.0340 U	0.0490 U	0.0330 U
MW-16D-13-15	'13-15	11/17/2006		0.0260 U				0.0170 U		0.0300 U	0.0440 U	0.0330 J
MW-16D-17-19	'17-19	11/20/2006		0.0260 U				0.0373 J		0.0290 U	0.0430 U	0.0280 U
MW-17D-15-17	'15-17	11/10/2006		0.0350 U				0.0230 U		0.0390 U	0.0580 U	0.0380 U
MW-17D-17-19	'17-19	11/10/2006		0.0270 U				0.0180 U		0.0300 U	0.0440 U	0.0290 U
MW-18D-13-15	'13-15	11/13/2006		0.0400 U				0.0270 U		0.0460 U	0.0670 U	0.107
MW-18D-17-19	'17-19	11/13/2006		0.0270 U				0.0180 U		0.0310 U	0.0460 U	0.0300 U
MW-20D-12-14	'12-14	11/9/2006		0.0420 U				0.0280 U		0.0480 U	0.0710 U	0.0460 U
MW-20D-32-34	'32-32.9	11/10/2006		0.0250 U				0.0160 U		0.0280 U	0.0410 U	0.0270 U
MW-20D-36-38	'36-38	11/10/2006		0.0300 U				0.0200 U		0.0340 U	0.0500 U	0.0330 U
MW-21D-13-15	'13-13.7	11/16/2006		0.0400 U				0.0270 U		0.0460 U	0.0670 U	0.0440 U
MW-21D-15-17	'15-17	11/16/2006		0.0280 U				0.0190 U		0.0320 U	0.0470 U	0.0310 U
MW-23D-15-17	'15-16	11/15/2006		0.0370 U				0.0240 U		0.0420 U	0.0610 U	0.0400 U
MW-23D-37-39	'37-37.9	11/15/2006		0.0350 U				0.0230 U		0.0400 U	0.0580 U	0.0380 U
MW-25D-10-12	'10-12	11/21/2006		0.0920 U				0.0610 U		0.100 U	0.150 U	0.100 U
MW-25D-33-35	'33-35	12/18/2006		0.0330 U				0.0220 U		0.0370 U	0.0550 U	0.0360 U
MW-26S-8-10	'8-10	10/26/2006		0.0370 U				0.0240 U		0.0420 U	0.0610 U	0.0400 U
MW-6D-0-2	'0-2	11/8/2006		0.0270 U				0.0180 U		0.0310 U	0.0450 U	0.0300 U
MW-6D-12-14	'12-14	11/8/2006		0.120 U				0.0800 U		0.140 U	0.200 U	0.130 U
MW-6D-16-18	'16-18	11/20/2006		0.0770 U				0.0510 U		0.0870 U	0.130 U	0.0840 U
MW-6D-30-32	'30-32	11/21/2006		0.0350 U				0.0240 U		0.0400 U	0.0590 U	0.0390 U
PCA-1-0-.5	'0-2	7/17/2001						0.0390 U			0.0390 U	0.0390 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
PCA-1-4-6	'4-6	7/17/2001						0.00700 U			0.00700 U	0.00700 U
PCA-2-0-.5	'0-0.5	7/17/2001						0.00490 U			0.00490 U	0.00490 U
PCA-3-0-0.5	'0-0.5	9/13/2001						0.00600 U			0.00600 U	0.00120 U
PCA-3-4-6	'4-6	9/13/2001						0.0100 U			0.0100 U	0.00300
PCA-4-0-0.5	'0-0.5	9/13/2001						0.00560 U			0.00560 U	0.00110 U
PCA-4-4-6	'4-6	9/26/2001						0.00770 U	0.160 JN		0.00770 U	0.00370
PCA-5-0.5-2	'0.5-2	9/7/2001						0.00430 U			0.00430 U	0.000860 U
PCA-5-0-0.5	'0-0.5	9/7/2001						0.00520 U		0.00670 JN	0.0104	0.00150
PCA-6-0-0.5	'0-0.5	9/7/2001						0.00630 U			0.00630 U	0.00130 U
RR-1 0-0.5	'0-0.5	8/22/2001			0.0170 JN			0.00480 U			0.00480 U	0.00480 U
RR-1 14-16	'14-16	8/22/2001						0.290 U			0.290 U	0.290 U
RR-10 0-.5	'0-0.5	10/12/2001						0.00640 U			0.00640 U	0.00130 U
RR-11 0-.5	'0-0.5	10/12/2001						0.00630 U			0.00630 U	0.00130 U
RR-12 0-.5	'0-0.5	10/12/2001						0.00520 U			0.00520 U	0.00100 U
RR-2-0-0.5	'0-0.5	9/13/2001						0.00500 U			0.00500 U	0.000990 U
RR-2-8-10	'8-10	9/13/2001						0.00730 U			0.00730 U	0.00170
RR-3-0-0.5	'0-0.5	9/13/2001						0.00560 U			0.00560 U	0.00110 U
RR-4-0-0.5	'0-0.5	9/10/2001						0.00820 U			0.00820 U	0.00160 U
RR-4-6-8	'6-8	9/13/2001						0.0100 U			0.0100 U	0.00210 U
RR-5-0-0.5	'0-0.5	9/10/2001						0.00720 U			0.00720 U	0.00140 U
RR-6-0-0.5	'0-0.5	9/10/2001						0.00630 U			0.00630 U	0.00130 U
RR-6-8-10	'8-10	9/10/2001						0.00400 U			0.00400 U	0.000810 U
RR-7-0-0.5	'0-0.5	9/10/2001						0.00510 U			0.00510 U	0.00100 U
RR-8-0-0.5	'0-0.5	9/26/2001						0.00740 U			0.0182 J	0.00150 U
RR-8-6-8	'6-8	9/26/2001						0.0240 U			0.0240 U	0.00480 U
RR-9 0-.5	'0-0.5	10/12/2001						0.00660 U			0.00660 U	0.00130 U
SC-1	'0-1	8/21/2001						0.00760 U			0.00760 U	0.00760 U
SC-2	'0-1	8/22/2001			0.0110 JN			0.00660 U			0.00660 U	0.00660 U
SC-3	'0-1	8/22/2001						0.00690 U			0.00690 U	0.00690 U
SILO-B1-0-0.5	'0-0.5	9/6/2001						0.00530 U			0.00530 U	0.00110 U
SILO-B1-6-8	'6-8	9/6/2001						0.0210 U	2.10 JN		0.0210 U	0.695
SILO-B2-0-0.5	'0-0.5	9/6/2001						0.00520 U			0.0165	0.00220
SILO-B3-0-0.5	'0-0.5	9/6/2001						0.00500 U			0.00500 U	0.000990 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
SILO-B3-6-8	'6-8	9/6/2001						0.00480 U			0.00480 U	0.000960 U
SILO-B4-0-0.5	'0-0.5	9/6/2001						0.00800 U			0.00800 U	0.00160 U
SPR-1-0-0.5	'0-0.5	9/5/2001						0.00570 U			0.00570 U	0.00110 U
SPR-1-8-10	'8-10	9/5/2001						0.0120 U			0.0120 U	0.00250 U
SPR-2A-0-0.5	'0-0.5	7/19/2001			0.00950 JN			0.00900 U			0.00900 U	0.00900 U
SPR-2A-8-10	'8-10	7/19/2001						5.04			0.980 U	0.980 U
SPR-2B-0-0.5	'0-0.5	7/19/2001						0.0120 U			0.0120 U	0.0120 U
SPR-2B-10-12	'10-12	7/19/2001						1.70			1.10 U	0.519 J
SPR-3 0-.5	'0-0.5	8/21/2001						0.430 U			0.430 U	0.430 U
SPR-3 4-6	'4-6	8/21/2001						0.540 U			0.540 U	0.540 U
SPR-4A-0-0.5	'0-0.5	7/19/2001						0.00500 U			0.00500 U	0.00500 U
SPR-4A-8-10	'8-10	7/19/2001						3.94			1.10 U	1.10 U
SPR-4B-0-0.5	'0-0.5	8/22/2001						0.00820			0.0422	0.00800
SPR-4B-4-6	'4-6	8/23/2001						0.00770 U			0.00770 U	0.00770 U
SPR-4C-0-0.5	'0-0.5	8/23/2001						0.00580 U			0.00580 U	0.00580 U
SPR-4C-4-6	'4-6	8/23/2001						0.360			0.360 U	0.360 U
SPR-5-0-0.5	'0-0.5	9/5/2001						0.00600 U			0.00600 U	0.00120 U
SPR-5-2-4	'2-4	9/5/2001				0.0150 JN		0.00820 U			0.00820 U	0.00160 U
SPR-6-0.5-2	'0.5-2	9/13/2001						0.00580 U			0.00580 U	0.00120 U
SPR-6-0-0.5	'0-0.5	9/13/2001						0.00530 U			0.00530 U	0.00110 U
SR-1-0-.5	'0-0.5	7/17/2001						0.00580 U			0.00580 U	0.00580 U
SR-2-0-.5	'0-0.5	7/17/2001						0.00670 U			0.00670 U	0.00670 U
ST-1-0-0.5	'0-0.5	9/5/2001						0.00500 U			0.00500 U	0.00100 U
ST-2-0-0.5	'0-0.5	9/5/2001						0.00480 U			0.00480 U	0.000960 U
ST-3-0-0.5	'0-0.5	9/4/2001						0.00590 U			0.00590 U	0.00120 U
ST-3-4-6	'4-6	9/4/2001						0.00770 U			0.00770 U	0.00150 U
TES-1-0-1	'0-1	12/5/2006						0.0230 U			0.0580 U	0.0390 U
TES-2-0-1	'0-1	12/4/2006		0.0400 U				0.0270 U		0.0450 U	0.0670 U	0.0440 U
TES-3-0-1	'0-1	12/4/2006		0.0340 U				0.0230 U		0.0390 U	0.0570 U	0.0370 U
TES-4-0-1	'0-1	12/5/2006						0.0270 U			0.199 J	0.453
TLN-1 .5-2	'0.5-2	8/20/2001						0.00590 U			0.00590 U	0.00590 U
TLN-1 0-.5	'0-0.5	8/20/2001						0.00560 U			0.00560 U	0.00560 U
TLN-2-0-0.5	'0-0.5	7/19/2001						0.00760 U			0.00760 U	0.00760 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001						0.00580 U			0.0169	0.00580 U
TLN-3-2-4	'2-4	7/17/2001						0.00500 U			0.00500 U	0.00500 U
TLN-4 0-.5	'0-0.5	8/20/2001						0.00540 U			0.00540 U	0.00540 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001						0.00480 U			0.00480 U	0.00480 U
TLN-5 .5-2	'0.5-2	8/20/2001						0.0120 U			0.0120 U	0.0120 U
TLN-5 0-.5	'0-0.5	8/20/2001						0.00660 U			0.00660 U	0.00660 U
TLN-5-4-6	'4-6	8/30/2001						0.00510 U			0.00510 U	0.00100 U
TLN-6 0-.5	'0-0.5	8/20/2001						0.00480 U			0.00480 U	0.00480 U
TLS-10 0-.5	'0-0.5	8/21/2001						0.520 U			0.520 U	0.520 U
TLS-10 8-10	'8-10	8/21/2001						0.620 U			0.620 U	0.620 U
TLS-1-0-0.5	'0-0.5	9/5/2001						0.0120 U			0.0120 U	0.00230 U
TLS-11-0-0.5	'0-0.5	9/7/2001						0.00700 U			0.00700 U	0.00140 U
TLS-2-0-0.5	'0-0.5	9/7/2001						0.00520 U			0.00520 U	0.00100 U
TLS-2-6-8	'6-8	9/7/2001						0.0180 U			0.0180 U	0.00360 U
TLS-3 0-.5	'0-0.5	8/21/2001						0.460 U			0.308 J	0.460 U
TLS-4-0-0.5	'0-0.5	9/7/2001						0.00520 U			0.00520 U	0.00100 U
TLS-4-8-10	'8-10	9/7/2001						0.0100 U			0.0100 U	0.00520
TLS-5 0-0.5	'0-0.5	8/21/2001						0.00530 U			0.00530 U	0.00530 U
TLS-5-8-10	'8-10	9/26/2001						0.00980 U			0.00980 U	0.00200 U
TLS-6 0-.5	'0-0.5	8/21/2001						0.470 U			0.470 U	0.157 J
TLS-6-3-5	'3-5	9/26/2001						0.00530 U		0.0330 JN	0.00530 U	0.00110 U
TLS-7 0-.5	'0-0.5	8/21/2001						0.550 U			0.763	0.550 U
TLS-8-0-0.5	'0-0.5	9/7/2001						0.00570 U			0.00570 U	0.00110 U
TLS-8-6-8	'6-8	9/7/2001						0.0110 U			0.0110 U	0.00210 U
TLS-9 0-.5	'0-0.5	8/21/2001						0.450 U			0.450 U	0.450 U
TP-105	'0-0	6/8/2007		0.0190 U				0.0160 U		0.0450 U	0.0240 U	0.0300 U
TP-105A	'0-0	6/8/2007		0.0160 U				0.0140 U		0.0390 U	0.0200 U	0.0260 U
TP-106-A	'0-0	6/8/2007		0.0190 U				0.0170 U		0.0460 U	0.0240 U	0.0310 U
TP-106-B	'0-0	6/8/2007		0.0120 U				0.0110 U		0.0300 U	0.0160 U	0.0200 U
WWT-1-0-0.5	'0-0.5	7/19/2001						0.00740 U			0.00740 U	0.00740 U
WWT-101-15-17	'15-17	11/6/2006		0.0330 U				0.0220 U		0.0380 U	0.0550 U	0.0360 U
WWT-101-21-23	'21-23	11/6/2006		0.0280 U				0.0180 U		0.0320 U	0.0470 U	0.0310 U
WWT-1-12-14	'12-14	8/23/2001						0.00640 U			0.0687	0.0289

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Tetradecane (c14) mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 3,3-Dimethyl- mg/kg	Propanal mg/kg	Styrene mg/kg	Sulfur Dioxide mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetra-chloroethylene(PERC) mg/kg	Toluene mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001						0.00580 U			0.00580 U	0.00580 U
WWT-2-12-14	'12-14	8/23/2001						0.111			0.279	0.314 E
WWT-3-0-0.5	'0-0.5	8/23/2001						0.00640 U			0.00640 U	0.00640 U
WWT-3-12-14	'12-14	8/23/2001						0.00520 U			0.00960	0.00330 J

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
SRS			650	6	18	340000		2	170000
12K-B1-0.5-2	'0.5-2	9/6/2001	0.0124	0.00480 U	35.3			0.0137	0.000950 U
12K-B1-0-0.5	'0-0.5	9/6/2001	0.0286	0.00540 U	16.9			0.0367	0.00110 U
12K-B2-0.5-2	'0.5-2	9/6/2001	0.00460 U	0.00460 U	0.522			0.00460 U	0.000920 U
12K-B2-0-0.5	'0-0.5	9/6/2001	0.0304	0.00500 U	124.	0.0200 JN		0.00500 U	0.00100 U
150K-1-0.5-2	'0.5-2	9/10/2001	0.00420 U	0.00420 U	0.00420 U			0.00420 U	0.00170 U
150K-1-0-0.5	'0-0.5	9/10/2001	0.00450 U	0.00450 U	0.00450 U			0.00450 U	0.00470
230-B1-0.5	'0-0.5	10/2/2001	0.00540 U	0.00540 U	0.00540 U			0.00540 U	0.00220 U
230-B10-0-0.5	'0-0.5	8/30/2001	0.0310 U	0.0310 U	0.0310 U			0.0310 U	0.138
230-B10-1.5-2	'1.5-2	8/30/2001	0.00650 U	0.00650 U	0.00650 U			0.00650 U	0.00130 U
230-B11-0-0.5	'0-0.5	8/30/2001	0.00540 U	0.00540 U				0.00540 U	0.00770
230-B11-1.5-2	'1.5-2	8/30/2001	0.00660 U	0.00660 U	0.00660 U			0.00660 U	0.00660 U
230-B1-4-6	'4-6	10/2/2001	3.00 U	3.00 U	139.			3.00 U	1.20 U
230-B2-0-0.5	'0-0.5	8/30/2001	0.00540 U	0.00540 U	0.00540 U			0.00540 U	0.00540 U
230-B2-1.5-2	'1.5-2	8/30/2001	0.00440 U	0.00440 U	0.00440 U			0.00440 U	0.000880 U
230-B3-0-0.5	'0-0.5	8/30/2001	0.00700 U	0.00700 U	0.00700 U			0.00700 U	0.00700 U
230-B3-1.5-2	'1.5-2	8/30/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.00480 U
230-B4-0-0.5	'0-0.5	8/30/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00260 J
230-B4-1.5-2	'1.5-2	8/30/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00120 U
230-B5-0-0.5	'0-0.5	9/13/2001	0.00400 J	0.00580 U	0.00280 J			0.00580 U	0.00230 U
230-B5-1.5-2	'1.5-2	9/13/2001	0.226	0.00610 U	0.0455			0.154	0.00240 U
230-B6 0-0.5	'0-0.5	8/22/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00500 U
230-B6 1.5-2	'1.5-2	8/22/2001	0.00490 U	0.00490 U	0.00490 U			0.00490 U	0.00490 U
230-B7 0-0.5	'0-0.5	8/22/2001	0.00760 U	0.00760 U	0.00760 U			0.00760 U	0.00760 U
230-B7 1.5-2	'1.5-2	8/22/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00520 U
230-B8 1.5-2	'1.5-2	8/22/2001	0.00640 U	0.00640 U	0.0119			0.00640 U	0.00640 U
230-B9 0-0.5	'0-0.5	8/22/2001	0.00560 U	0.00560 U	0.00560 U			0.00560 U	0.00560 U
230-B9 0-0.5	'0-0.5	8/22/2001	0.00510 U	0.00510 U	0.00510 U			0.00510 U	0.00510 U
230-B9 1.5-2	'1.5-2	8/22/2001	0.00520 U	0.00520 U	0.0251			0.00520 U	0.00520 U
231-B1-0-0.5	'0-0.5	10/5/2001	0.00620 U	0.00620 U	0.00620 U			0.00620 U	0.00250 U
231-B10-0-0.5	'0-0.5	9/17/2001	0.00960 U	0.00960 U	0.00960 U			0.00960 U	0.00380 U
231-B11-0-0.5	'0-0.5	9/19/2001	0.00600 U	0.00600 U	0.00600 U		0.0110 JN	0.00600 U	0.00240 U
231-B11-8-10	'8-10	9/19/2001	0.00920 U	0.00920 U	0.00920 U			0.00920 U	0.00370 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
231-B12-0-0.5	'0-0.5	9/17/2001	0.00700 U	0.00700 U	0.00700 U			0.00700 U	0.00280 U
231-B13-0-0.5	'0-0.5	9/19/2001	0.0140 U	0.0140 U	0.0575			0.0140 U	0.00550 U
231-B13-8-10	'9-10	9/27/2001	12.0 U	12.0 U	12.0 U			12.0 U	4.60 U
231-B14-0-0.5	'0-0.5	9/19/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00210 U
231-B2-0.5-2	'0.5-2	8/22/2001	0.00560 U	0.00560 U	0.00560 U			0.00560 U	0.00180 J
231-B2-0-0.5	'0-0.5	8/22/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00580 U
231-B3-0-0.5	'0-0.5	8/22/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00580 U
231-B4-0-0.5	'0-0.5	8/30/2001	0.00870 U	0.00870 U	0.00870 U			0.00870 U	0.00870 U
231-B4-6-8	'6-8	9/27/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.0208
231-B5-0.5-2	'0.5-2	9/19/2001	0.00540 U	0.00540 U	0.00400 J			0.00840	0.00220 U
231-B6-0-0.5	'0-0.5	9/27/2001	0.00540 U	0.00540 U	0.00500 J	1.10 JN		0.00540 U	0.00880
231-B6-4-6	'4-6	9/27/2001	0.0140 U	0.0140 U	0.0140 U			0.0140 U	0.00550 U
231-B7-0-0.5	'0-0.5	9/13/2001	0.00570 U	0.00570 U	0.00190 J	3.70 JN	6.20 JN	0.00570 U	0.00230 U
231-B8-0-0.5	'0-0.5	9/27/2001	0.0270 UJ	0.0270 UJ	0.0270 UJ			0.0270 UJ	0.0110 UJ
231-B8-8-10	'8-10	9/27/2001	4.80 U	4.80 U	4.80 U			4.80 U	6.29
231-B9-0.5-2	'0.5-2	9/27/2001	0.00860 U	0.00860 U	0.0133			0.00860 U	0.00340 U
231-B9-0-0.5	'0-0.5	9/27/2001	0.00800 U	0.00800 U	0.00800 U			0.00800 U	0.00320 U
240-1-0-0.5	'0-0.5	9/26/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00210 U
240-1-8-10	'8-10	10/1/2001	0.00600 U	0.00600 U	0.00600 U			0.00600 U	0.00240 U
5K-B1-0-0.5	'0-0.5	10/1/2001	0.00540 U	0.00540 U	0.00540 U			0.00540 U	0.00210 U
5K-B2-0-0.5	'0-0.5	8/31/2001	0.00710 U	0.00710 U	0.00710 U			0.00710 U	0.00140 U
5K-B2-8-10	'8-10	8/31/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.000950 U
5K-B3-0-0.5	'0-0.5	9/26/2001	0.00570 U	0.00570 U	0.00570 U			0.00570 U	0.00230 U
5K-B4-0-0.5	'0-0.5	10/1/2001	0.00650 U	0.00650 U	0.00650 U			0.00650 U	0.00260 U
5K-B4-4-6	'4-6	10/1/2001	0.310 U	0.310 U	0.310 U			0.310 U	0.120 U
5K-B5-0-0.5	'0-0.5	8/31/2001	0.00550 U	0.00550 U	0.00550 U			0.00550 U	0.00180
5K-B5-4-6	'4-6	9/26/2001	0.00510 U	0.00510 U	0.00510 U			0.00510 U	0.00380
AB-1-0-0.5	'0-0.5	9/4/2001	0.0210 U	0.0210 U	0.0210 U			0.0210 U	0.00420 U
AB-2-0.5-2	'0.5-2	9/4/2001	0.00760 U	0.00760 U	0.0208			0.00760 U	0.00150 U
AB-2-0-0.5	'0-0.5	9/4/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00100 U
ADN-1-0-0.5	'0-0.5	9/5/2001	0.00470 U	0.00470 U	0.00470 U			0.00470 U	0.000940 U
ADN-1-8-10	'8-10	9/5/2001	0.880 U	0.880 U	0.880 U			0.880 U	0.350 U
ADN-2-0-0.5	'0-0.5	9/5/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.000950 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
ADN-2-10-11	'10-11	9/27/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00470
ADS-1-0-.5	'0-0.5	7/17/2001	0.00760 U	0.00760 U	0.00760 U			0.00760 U	0.00760 U
ADS-10-0-0.5	'0-2	7/18/2001	0.00590 U	0.00590 U	0.00590 U			0.00590 U	0.00590 U
ADS-101-0-1	'0-1	12/5/2006	0.0400 U	0.0230 U	0.0300 U	0.0420 U	0.0500 U	0.0370 U	0.0290 U
ADS-101-1-3	'1-3	12/5/2006	0.0320 U	0.0180 U	0.0240 U	0.0340 U	0.0400 U	0.0300 U	0.0230 U
ADS-102-0-1.5	'0-2	12/5/2006	0.0340 U	0.0190 U	0.0260 U	0.0360 U	0.0420 U	0.0320 U	0.0240 U
ADS-102-7-8	'4-8	12/6/2006	0.0400 U	0.0230 U	0.0300 U	0.0420 U	0.0500 U	0.0380 U	0.0290 U
ADS-10-4-6	'4-6	7/18/2001	0.0120 U	0.0120 U	0.0120 U			0.0120 U	0.0120 U
ADS-11-0-0.5	'0-2	7/18/2001	0.00620 U	0.00620 U	0.00620 U			0.00620 U	0.00620 U
ADS-12-0.5-2	'0.5-2	7/18/2001	0.00560 U	0.00560 U	0.00560 U			0.00560 U	0.00560 U
ADS-12-0-0.5	'0-0.5	7/18/2001	0.00820 U	0.00820 U	0.00820 U			0.00820 U	0.00820 U
ADS-2-0-0.5	'0-0.5	7/18/2001	0.00610 U	0.00610 U	0.00610 U			0.00610 U	0.00610 U
ADS-2-4-6	'4-6	7/18/2001	0.00490 U	0.00490 U	0.00490 U			0.00490 U	0.00490 U
ADS-3-0-0.5	'0-0.5	7/18/2001	0.00570 U	0.00570 U	0.00570 U			0.00570 U	0.00570 U
ADS-4-0-0.5	'0-2	7/18/2001	0.00600 U	0.00600 U	0.00600 U			0.00600 U	0.00600 U
ADS-4-12-14	'12-14	7/18/2001	0.00880 U	0.00880 U	0.00880 U			0.00880 U	0.00880 U
ADS-5-0-0.5	'0-0.5	7/18/2001	0.00530 U	0.00530 U	0.00530 U			0.00530 U	0.00530 U
ADS-5-4-6	'4-6	9/27/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00200 U
ADS-6-0.5-2	'0.5-2	7/18/2001	0.00140 J	0.00560 U	0.0201			0.0106	0.00620
ADS-6-0-0.5	'0-0.5	7/18/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.00480 U
ADS-7-0-.5	'0-0.5	7/17/2001	0.00520 U	0.00520 U	0.00150 J			0.00360 J	0.00520 U
ADS-8-0-0.5	'0-0.5	7/18/2001	0.00960 U	0.00960 U	0.00960 U			0.00960 U	0.00960 U
ADS-8-4-6	'4-6	7/18/2001	0.00910 U	0.00910 U	0.00910 U			0.00910 U	0.00910 U
ADS-9-0-0.5	'0-0.5	7/18/2001	0.00930 U	0.00930 U	0.00930 U			0.00930 U	0.00930 U
BLIND DUP	'0-0	8/21/2001	0.00620 U	0.00620 U	0.00620 U			0.00620 U	0.00620 U
BSL-10-0-1	'0-1	9/21/2001	0.00700 U	0.00700 U	0.00700 U			0.00700 U	0.00280 U
BSL-1-0-1	'0-1	9/20/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00230 U
BSL-11-0-1	'0-1	9/26/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00230 U
BSL-12-0-1	'0-1	9/26/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00210 U
BSL-1-4-6	'4-6	9/20/2001	0.00720 U	0.00720 U	0.00720 U			0.00720 U	0.00290 U
BSL-2-0-1	'0-1	9/21/2001	0.00760 U	0.00760 U	0.00760 U			0.00760 U	0.00300 U
BSL-3-0-0.5	'0-0.5	9/20/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00210 U
BSL-4-0-1	'0-0.5	9/21/2001	0.00720 U	0.00720 U	0.00720 U			0.00720 U	0.00290 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
BSL-4-4-6	'4-6	9/21/2001	0.0120 U	0.0120 U	0.0120 U			0.0120 U	0.00480 U
BSL-5-0-.5	'0-0.5	9/21/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00210 U
BSL-6-0-1	'0-1	9/26/2001	0.00720 U	0.00720 U	0.00720 U			0.00720 U	0.00290 U
BSL-6-1-2	'1-2	9/26/2001	0.0180 U	0.0180 U	0.0180 U			0.0180 U	0.00710 U
BSL-7-0-.5	'0-0.5	9/21/2001	0.00640 U	0.00640 U	0.00640 U			0.00640 U	0.00260 U
BSL-8-0-1	'0-1	9/26/2001	0.00940 U	0.00940 U	0.00940 U			0.00940 U	0.00370 U
BSL-9-.5-2	'0.5-2	9/21/2001	0.0100 U	0.0100 U	0.0100 U			0.0100 U	0.00400 U
BSL-9-0-.5	'0-0.5	9/21/2001	0.00570 U	0.00570 U	0.00570 U			0.00570 U	0.00230 U
BT-B1-0-0.5	'0-0.5	9/18/2001	0.00560 U	0.00560 U	0.00560 U			0.00560 U	0.00230 U
BT-B2-0.5-2	'0.5-2	9/18/2001	0.00420 U	0.00420 U	0.00420 U			0.00420 U	0.00170 U
BT-B2-0-0.5	'0-0.5	9/18/2001	0.00460 U	0.00460 U	0.00460 U			0.00460 U	0.00180 U
BT-B3-0-0.5	'0-0.5	9/18/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00230 U
BT-B4-0.5-2	'0.5-2	8/30/2001	0.00490 U	0.00490 U	0.00490 U			0.00490 U	0.00490 U
BT-B4-0-0.5	'0-0.5	8/30/2001	0.00660 U	0.00660 U	0.00660 U			0.00660 U	0.0131
BT-B5-0-.5	'0-0.5	10/2/2001	0.00540 U	0.00540 U	0.00540 U			0.00540 U	0.00220 U
BT-B6-0.5-2	'0.5-2	9/17/2001	0.00950 U	0.00950 U	0.00950 U			0.00950 U	0.00380 U
BT-B6-0-0.5	'0-0.5	9/17/2001	0.00700 U	0.00700 U	0.00700 U			0.00700 U	0.00280 U
CF-1-0-0.5	'0-0.5	8/31/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.000950 U
CF-1-2-4	'2-4	8/31/2001	0.00800 U	0.00800 U	0.00800 U			0.00800 U	0.00160 U
CF-2-0-0.5	'0-0.5	8/28/2001	0.00650 U	0.00650 U	0.00650 U	0.160 JN		0.00650 U	0.00650 U
CF-3-0.5-2	'0.5-2	8/28/2001	0.0120 U	0.0120 U	0.0120 U			0.0120 U	0.0120 U
CF-3-0-0.5	'0-0.5	8/28/2001	0.00900 U	0.00900 U	0.00900 U			0.00900 U	0.00900 U
CF-4-0-0.5	'0-0.5	8/28/2001	0.00640 U	0.00640 U	0.00640 U			0.00640 U	0.00640 U
CF-5-0-0.5	'0-0.5	8/28/2001	0.00570 U	0.00570 U	0.00570 U			0.00570 U	0.00570 U
CF-5-4-6	'4-6	8/28/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00500 U
CF-6-0-0.5	'0-0.5	8/28/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00520 U
CF-7-0-0.5	'0-0.5	8/28/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00520 U
CF-7-4-6	'4-6	8/28/2001	0.00600 U	0.00600 U	0.00600 U			0.00600 U	0.00600 U
CF-8-0-0.5	'0-0.5	8/28/2001	0.00540 U	0.00540 U	0.00540 U			0.00540 U	0.00540 U
CF-9-0.5-2	'0.5-2	8/31/2001	0.00710 U	0.00710 U	0.00710 U			0.00710 U	0.00140 U
CF-9-0-0.5	'0-0.5	8/31/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.000960 U
DC-B12-0-0.5	'0-0.5	10/3/2001	0.00980 U	0.00980 U	0.00980 U			0.00980 U	0.00780
DC-B12-2-4	'2-4	10/3/2001	0.00680 U	0.00680 U	0.00680 U			0.00680 U	0.00490

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.00190 U
DC-SS11-0-0.5	'0-0.5	9/17/2001	0.00430 U	0.00430 U	0.00430 U			0.00430 U	0.00170 U
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.00850 U	0.00850 U	0.00850 U			0.00850 U	0.00340 U
DC-SS15-0-0.5	'0-0.5	9/17/2001	0.00600 U	0.00600 U	0.00230 J			0.00600 U	0.00240 U
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.00550 U	0.00550 U	0.00550 U			0.00550 U	0.00220 U
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00210 U
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.00590 U	0.00590 U	0.000950 J			0.00590 U	0.00240 U
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.00780 U	0.00780 U	0.00780 U			0.00780 U	0.00310 U
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.00640 U	0.00640 U	0.00640 U			0.00640 U	0.00260 U
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.00470 U	0.00470 U	0.00470 U			0.00470 U	0.00190 U
DSP-1-0-0.5	'0-0.5	10/3/2001	0.00720 U	0.00720 U	0.00720 U			0.00720 U	0.00290 U
DSP-1-4-6	'4-6	11/19/2001	0.00620 U	0.00620 U	0.00620 U			0.00620 U	0.00250 U
DSP-2-0-0.5	'0-0.5	9/4/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00120 U
DSP-3-0-0.5	'0-0.5	9/4/2001	0.00560 U	0.00560 U	0.00560 U			0.00560 U	0.00110 U
DSP-3-2-4	'2-4	9/4/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00100 U
DSP-4-0-0.5	'0-0.5	9/4/2001	0.00560 U	0.00560 U	0.00560 U			0.00560 U	0.00110 U
DSP-4-4-6	'4-6	9/26/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00210 U
DUP-01-010824	'0-0.5	8/24/2001	0.00630 U	0.00630 U	0.00630 U			0.00630 U	0.00630 U
DUP-01-010831	'2-4	8/31/2001	0.00880 U	0.00880 U	0.00880 U			0.00880 U	0.00180 U
DUP-01-010904	'0-0.5	9/4/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00100 U
DUP-01-010905	'8-10	9/5/2001	0.00530 U	0.00530 U	0.00530 U			0.00530 U	0.0531
DUP-01-010906	'0-8	9/6/2001	0.00880 U	0.00880 U	0.00880 U			0.00880 U	0.146
DUP-01-010913	'0-0.5	9/13/2001	0.00910 U	0.00910 U	0.00910 U			0.00910 U	0.00360 U
DUP-01-010917	'0-0.5	9/17/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00230 U
DUP-01-010926	'1-2	9/26/2001	0.0120 U	0.0120 U	0.0120 U			0.0120 U	0.00480 U
DUP-01-010927	'4-6	9/27/2001	0.00760 U	0.00760 U	0.00760 U			0.00760 U	0.00300 U
DUP-01-021001	'0-0	10/2/2001	0.00430 U	0.00430 U	0.00430 U			0.00430 U	0.00170 U
DUP-01-08 2201	'1.5-2	8/22/2001	0.00600 U	0.00600 U	0.00600 U			0.00600 U	0.00600 U
DUP-01-121001	'0-0	10/12/2001	0.00700 U	0.00700 U	0.00700 U			0.00700 U	0.00280 U
DUP-01-170402	'0-0	4/17/2002	1.40 U	1.40 U	1.40 U			1.40 U	0.560 U
DUP-02-010913	'0-0.5	9/13/2001	0.00520 U	0.00520 U	0.00520 U	1.80 JN	4.20 JN	0.00520 U	0.00210 U
DUP-02-010921	'0-1	9/21/2001	0.00630 U	0.00630 U	0.00630 U			0.00630 U	0.00250 U
DUP-02-010926	'4-6	9/26/2001	0.00540 U	0.00540 U	0.00540 U			0.00540 U	0.00220 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
DUP060807	'0-0	6/8/2007	0.0350 U	0.0510 U	0.0200 U	0.0300 U	0.0230 U	0.0350 U	0.0160 U
DUP-1-010828	'0-0.5	8/28/2001	0.00560 U	0.00560 U	0.00560 U			0.00560 U	0.00560 U
DUP-1-010921	'0-0.5	9/21/2001	0.00680 U	0.00680 U	0.00680 U			0.00680 U	0.00270 U
DUP110606	'15-17	11/6/2006	0.0470 U	0.0270 U	0.0360 U	0.0500 U	0.0590 U	0.0450 U	0.0340 U
DUP112006	'16-18	11/20/2006	0.120 U	0.0680 U	0.0910 U	0.130 U	0.150 U	0.110 U	0.0860 U
DUP112106	'10-12	11/21/2006	0.130 U	0.0740 U	0.0980 U	0.140 U	0.160 U	0.120 U	0.0930 U
DUP-120506	'0-4	12/5/2006	0.0340 U	0.0190 U	0.0260 U	0.0360 U	0.0420 U	0.0320 U	0.0604 J
DUP-120606	'0-4	12/6/2006	0.0320 U	0.0180 U	0.0240 U	0.0340 U	0.0400 U	0.0300 U	0.429
DUPE071801	'0-0.5	7/18/2001	0.00660 U	0.00660 U	0.00660 U			0.00660 U	0.00660 U
EC-1	'0-1	8/21/2001	0.00640 U	0.00640 U	0.00640 U			0.00640 U	0.00640 U
EC-2	'0-1	8/21/2001	0.00850 U	0.00850 U	0.00850 U			0.00850 U	0.00850 U
EC-3	'0-1	8/21/2001	0.00700 U	0.00700 U	0.00700 U			0.00700 U	0.00700 U
EC-4	'0-1	8/21/2001	0.00880 U	0.00880 U	0.00880 U			0.00880 U	0.00880 U
EC-5	'0-1	8/21/2001	0.00510 U	0.00510 U	0.00510 U			0.00510 U	0.00510 U
EC-6	'0-1	8/21/2001	0.00650 U	0.00650 U	0.00650 U			0.00650 U	0.00650 U
EC-7	'0-1	8/21/2001	0.00740 U	0.00740 U	0.00740 U			0.00740 U	0.00740 U
EC-8	'0-1	8/21/2001	0.00670 U	0.00670 U	0.00670 U			0.00670 U	0.00670 U
EC-9	'0-1	8/21/2001	0.00640 U	0.00640 U	0.00640 U			0.00640 U	0.00640 U
ESR-1-0-1	'0-0.5	9/4/2001	0.00560 U	0.00560 U	0.00560 U			0.00560 U	0.00110 U
ESR-1-4-6	'4-6	9/4/2001	0.00570 U	0.00570 U	0.00570 U			0.00570 U	0.00110 U
HB-101A	'17-17	3/5/2007	0.0380 U	0.0220 U	0.0290 U	0.0400 U	0.0470 U	0.0360 U	0.0270 U
HB-102A	'0-0	3/13/2007	0.110 U	0.0610 U	0.0810 U	0.110 U	0.130 U	0.100 U	0.0770 U
HB-102B	'0-0	3/14/2007	0.0420 U	0.0240 U	0.0320 U	0.0440 U	0.0520 U	0.0390 U	0.0300 U
HB-102C	'0-0	3/14/2007	0.0360 U	0.0210 U	0.0270 U	0.0380 U	0.0450 U	0.0340 U	0.0260 U
H-B-103A	'17-17	2/20/2007	0.0610 U	0.0350 U	0.0470 U	0.0650 U	0.0770 U	0.0580 U	0.0440 U
H-B-104A	'17-17	2/23/2007	0.0440 U	0.0250 U	0.0340 U	0.0470 U	0.0560 U	0.0420 U	0.0320 U
H-B-104B	'17-17	2/23/2007	0.0370 U	0.0210 U	0.0280 U	0.0390 U	0.0460 U	0.0350 U	0.0270 U
H-B-104C	'17-17	2/23/2007	0.0480 U	0.0280 U	0.0370 U	0.0510 U	0.0600 U	0.0450 U	0.443
H-B-104D	'17-17	2/27/2007	0.0400 U	0.0230 U	0.0310 U	0.0430 U	0.0510 U	0.0380 U	0.0290 U
H-B-104E	'17-17	2/27/2007	0.0370 U	0.0220 U	0.0290 U	0.0400 U	0.0470 U	0.0350 U	0.0270 U
H-B-105C	'17-17	2/8/2007	0.0360 U	0.0210 U	0.0270 U	0.0380 U	0.0450 U	0.0340 U	0.0260 U
H-B-105D	'17-17	2/8/2007	0.0410 U	0.0240 U	0.0310 U	0.0440 U	0.0520 U	0.0390 U	0.0300 U
H-B-105E	'0-0	2/8/2007	0.0420 U	0.0240 U	0.0320 U	0.0450 U	0.0530 U	0.0400 U	0.0300 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
HB-1A	'6.75-6.75	4/18/2002	0.0100 U	0.0100 U	0.0100 U			0.0100 U	0.00930
HB-3A	'5.25-5.25	4/17/2002	1.80 U	1.80 U	1.80 U			1.80 U	0.730 U
HB-3B	'4.5-4.5	4/17/2002	0.00440 U	0.00440 U	0.00440 U			0.00440 U	0.00170 U
HB-3C	'4.5-4.5	4/18/2002	0.00450 U	0.00450 U	0.00450 U			0.00450 U	0.00180 U
HB-3D	'4.5-4.5	4/18/2002	0.00670 U	0.00670 U	0.00670 U			0.00670 U	0.00270 U
HB-4A	'5.33-5.33	4/19/2002	0.00510 U	0.00510 U	0.00510 U			0.00510 U	0.00730
HB-5A	'3-3	4/22/2002	0.00510 U	0.00510 U	0.00510 U			0.00510 U	0.00200
HB-7A	'5-5	4/19/2002	0.00600 U	0.00600 U	0.00610			0.00310 J	0.00490
HB-8A	'3-3	4/23/2002	0.00680 U	0.00680 U	0.00680 U			0.00680 U	0.00270 U
HB-8B	'4.83-4.83	4/23/2002	0.00720 U	0.00720 U	0.00720 U			0.00720 U	0.00290 U
HB-8C	'5.5-5.5	4/23/2002	0.00620 U	0.00620 U	0.00620 U			0.00620 U	0.477
HB-9A	'4.75-4.75	4/24/2002	0.00560 U	0.00560 U	0.00560 U			0.00560 U	0.0258
HF-B1-0-0.5	'0-0.5	9/10/2001	0.0120 U	0.0120 U	0.0120 U			0.0120 U	0.00460 U
HF-B1-8-10	'8-10	9/10/2001	0.00400 U	0.00400 U	0.00400 U			0.0564	0.00340
HF-B2-0-0.5	'0-0.5	9/4/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.000970 U
HF-B2-4-6	'4-6	9/4/2001	0.00600 U	0.00600 U	0.00600 U			0.00600 U	0.00120 U
HF-B3-0-.5	'0-0.5	10/2/2001	0.00610 U	0.00610 U	0.00610 U			0.00610 U	0.00240 U
HF-B3-8-10	'8-10	10/2/2001	0.00680 U	0.00680 U	0.00310 J			0.00680 U	0.00270 U
IB-1-0-2	'0-2	4/8/2002	0.00590 U	0.00590 U	0.00110 J			0.00590 U	0.00240 U
IB-1-4-6	'4-6	4/8/2002	0.00600 U	0.00600 U	0.00600 U			0.00600 U	0.00370
IB-2-12-14	'12-14	4/8/2002	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.0121
IB-2-4-6	'4-6	4/8/2002	0.00510 U	0.00510 U	0.00510 U			0.00510 U	0.00480
IB-3-4-6	'4-6	4/8/2002	0.00560 U	0.00560 U	0.00280 J			0.00560 U	0.0331
IB-3-8-10	'8-10	4/8/2002	0.00880 U	0.00880 U	0.00880 U			0.00880 U	0.0213
LB-101-0-1	'0-1	12/6/2006	0.0370 U	0.0210 U	0.0280 U	0.0390 U	0.0460 U	0.0350 U	0.0270 U
LB-101-1-3	'1-3	12/6/2006	0.0300 U	0.0170 U	0.0230 U	0.0320 U	0.0370 U	0.0280 U	0.0210 U
LB-102-0-1	'0-3	12/6/2006	0.0400 U	0.0230 U	0.0300 U	0.0430 U	0.0500 U	0.0380 U	0.0290 U
LB-102-1-3	'3-7	12/6/2006	0.0330 U	0.0190 U	0.0250 U	0.0350 U	0.0420 U	0.0310 U	0.0240 U
LB-103-0-1	'0-1	12/6/2006	0.0390 U	0.0220 U	0.0290 U	0.0410 U	0.0480 U	0.0370 U	0.0280 U
LB-103-5-7	'5-7	12/6/2006	0.0490 U	0.0280 U	0.0380 U	0.0530 U	0.0620 U	0.0470 U	0.151
LHP-101-0-1	'0-1	12/4/2006	0.0450 U	0.0260 U	0.0340 U	0.0470 U	0.0560 U	0.0420 U	0.119 J
LHP-101-5-8	'4-8	12/4/2006	0.0790 U	0.0460 U	0.0600 U	0.0850 U	0.0990 U	0.0750 U	0.657
LHP-102-0-1	'0-1	12/5/2006	0.0460 U	0.0270 U	0.0350 U	0.0490 U	0.0580 U	0.0440 U	0.248

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
LHP-102-7-9	'7-9	12/5/2006	0.000910 U	0.000520 U	0.000700 U	0.000970 U	0.00110 U	0.000860 U	0.000660 U
LHP-102-7-9	'7-9	12/6/2006	0.0730 U	0.0420 U	0.0550 U	0.0780 U	0.0910 U	0.0690 U	0.328
LHP-103-0-1	'0-1	12/5/2006	0.0390 U	0.0220 U	0.0300 U	0.0410 U	0.0490 U	0.0370 U	0.0280 U
LHP-103-1-3	'1-3	12/5/2006	0.0430 U	0.0250 U	0.0330 U	0.0460 U	0.0540 U	0.0400 U	0.0310 U
LHP-104-0-1	'0-1	12/5/2006	0.0370 U	0.0210 U	0.0280 U	0.0400 U	0.0470 U	0.0350 U	0.0270 U
LHP-104-7-9	'4-8	12/5/2006	0.0560 U	0.0320 U	0.0430 U	0.0600 U	0.0710 U	0.0530 U	0.265
LHP-105-0-1	'0-1	12/5/2006	0.0340 U	0.0200 U	0.0260 U	0.0370 U	0.0430 U	0.0320 U	0.0250 U
LHP-105-1-3	'1-3	12/5/2006	0.0430 U	0.0250 U	0.0330 U	0.0460 U	0.0540 U	0.0410 U	0.0310 U
LHP-106-0-1	'0-1	12/4/2006	0.0330 U	0.0190 U	0.0250 U	0.0350 U	0.0410 U	0.0310 U	0.0431 J
LHP-106-1-3	'1-3	12/4/2006	0.0480 U	0.0280 U	0.0370 U	0.0510 U	0.0600 U	0.0460 U	0.0350 U
LHP-107-0-1	'0-1	12/5/2006	0.0320 U	0.0180 U	0.0240 U	0.0340 U	0.0400 U	0.0300 U	0.0230 U
LHP-107-5-7	'4-8	12/5/2006	0.0390 U	0.0220 U	0.0300 U	0.0420 U	0.0490 U	0.0370 U	0.0280 U
LHP-108-0-1	'0-1	12/6/2006	0.0410 U	0.0230 U	0.0310 U	0.0430 U	0.0510 U	0.0380 U	0.0290 U
LHP-108-3-7	'3-7	12/6/2006	0.0410 U	0.0240 U	0.0310 U	0.0440 U	0.0520 U	0.0390 U	0.0300 U
LHP-109-0-1	'0-1	12/6/2006	0.0420 U	0.0240 U	0.0320 U	0.0440 U	0.0520 U	0.0390 U	0.0300 U
LHP-109-7-9	'7-9	12/6/2006	0.0660 U	0.0380 U	0.0500 U	0.0700 U	0.0830 U	0.0620 U	0.183 J
LHP-110-0-1	'0-1	12/4/2006	0.0710 U	0.0410 U	0.0540 U	0.0760 U	0.0890 U	0.0670 U	0.0510 U
LHP-111-0-1	'0-1	12/4/2006	0.0340 U	0.0190 U	0.0260 U	0.0360 U	0.0420 U	0.0320 U	0.0240 U
LHP-112-0-1	'0-1	12/4/2006	0.0350 U	0.0200 U	0.0270 U	0.0370 U	0.0440 U	0.0330 U	0.0250 U
LHP-113-0-1	'0-1	12/4/2006	0.0330 U	0.0190 U	0.0250 U	0.0350 U	0.0420 U	0.0310 U	0.0240 U
LHP-114-0-1	'0-1	12/4/2006	0.0320 U	0.0190 U	0.0250 U	0.0350 U	0.0410 U	0.0310 U	0.0230 U
LHP-115-0-1	'0-1	12/4/2006	0.0320 U	0.0180 U	0.0240 U	0.0340 U	0.0400 U	0.0300 U	0.0230 U
LHP-116-0-1	'0-1	12/4/2006	0.0360 U	0.0200 U	0.0270 U	0.0380 U	0.0450 U	0.0340 U	0.0260 U
LHP-117-0-1	'0-1	12/4/2006	0.0380 U	0.0220 U	0.0290 U	0.0400 U	0.0470 U	0.0360 U	0.0270 U
LHP-118-0-1	'0-1	12/4/2006	0.0480 U	0.0280 U	0.0370 U	0.0510 U	0.0600 U	0.0460 U	0.280
LHP-119-0-1	'0-1	12/4/2006	0.0460 U	0.0270 U	0.0350 U	0.0500 U	0.0580 U	0.0440 U	0.0340 U
LHP-120-0-1	'0-1	12/4/2006	0.0620 U	0.0360 U	0.0470 U	0.0660 U	0.0780 U	0.0590 U	0.0892 J
LHP-121-0-1	'0-1	12/6/2006	0.0460 U	0.0260 U	0.0350 U	0.0490 U	0.0580 U	0.0440 U	0.502
LHP-122-0-1	'0-1	12/6/2006	0.0370 U	0.0210 U	0.0280 U	0.0390 U	0.0460 U	0.0350 U	0.0270 U
LHP-123-0-1	'0-1	12/4/2006	0.0410 U	0.0230 U	0.0310 U	0.0430 U	0.0510 U	0.0390 U	0.0290 U
LHP-124-.5-2	'0.5-2	10/27/2006	0.0530 U	0.0300 U	0.0400 U	0.0560 U	0.0660 U	0.0500 U	0.0380 U
LHP-124-2-4	'2-4	10/27/2006	0.0380 U	0.0220 U	0.0290 U	0.0400 U	0.0470 U	0.0360 U	0.0270 U
LHP-124-28-30	'28-30	10/31/2006	0.0520 U	0.0300 U	0.0400 U	0.0550 U	0.0650 U	0.0490 U	0.0380 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
LHP-125-.5-2	'0.5-2	10/27/2006	0.0420 U	0.0240 U	0.0320 U	0.0450 U	0.0530 U	0.0400 U	0.0300 U
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0490 U	0.0280 U	0.0380 U	0.0530 U	0.0620 U	0.0470 U	0.0360 U
LHP-125-12-14	'12-14	11/1/2006	0.0380 U	0.0220 U	0.0290 U	0.0410 U	0.0480 U	0.0360 U	0.0280 U
LHP-125-4-6	'4-6	10/27/2006	0.0440 U	0.0250 U	0.0340 U	0.0470 U	0.0550 U	0.0420 U	0.0320 U
LHP-126-10.5-12	'10.5-12	11/1/2006	0.330 UJ	0.190 UJ	0.250 UJ	0.350 UJ	0.410 UJ	0.310 UJ	0.240 UJ
LHP-126-14-16	'14-16	11/1/2006	0.0410 U	0.0230 U	0.0310 U	0.0430 U	0.0510 U	0.0390 U	0.0290 U
LHP-126-2-4	'2-4	10/26/2006	0.0420 U	0.0240 U	0.0320 U	0.0450 U	0.0530 U	0.0400 U	0.0300 U
LHP-126-8-10	'9-10	10/26/2006	0.0620 U	0.0360 U	0.0470 U	0.0660 U	0.0780 U	0.0590 U	0.0450 U
LHP-127-0-1	'0-1	12/6/2006	0.0480 U	0.0280 U	0.0360 U	0.0510 U	0.0600 U	0.0450 U	0.318
LHP-127-3-5	'3-5	12/6/2006	0.0370 U	0.0210 U	0.0280 U	0.0390 U	0.0460 U	0.0350 U	0.0902 J
LHP-128-0-1	'0-4	12/6/2006	0.0310 U	0.0180 U	0.0240 U	0.0330 U	0.0390 U	0.0290 U	0.620
LHP-128-7-8	'17-17	12/6/2006	0.0660 U	0.0380 U	0.0519 J	0.0700 U	0.0830 U	0.0620 U	0.268
LP-1-0-0.5	'0-0.5	8/27/2001	0.00620 U	0.00620 U	0.00620 U			0.00620 U	0.00620 U
LP-10-0.5-2	'0.5-2	8/27/2001	0.00510 U	0.00510 U	0.00510 U			0.00510 U	0.00510 U
LP-10-0-0.5	'0-0.5	8/27/2001	0.00620 U	0.00620 U	0.00620 U			0.00620 U	0.00620 U
LP-101-11-13	'11-13	11/2/2006	0.120 U	0.0670 U	0.0890 U	0.130 U	0.150 U	0.110 U	0.0850 U
LP-101-14-16	'14-16	11/2/2006	0.110 U	0.0610 U	0.0810 U	0.110 U	0.130 U	0.100 U	0.0760 U
LP-101-26-28	'26-28	11/2/2006	0.0380 U	0.0220 U	0.0290 U	0.0400 U	0.0480 U	0.0360 U	0.0270 U
LP-101-50-52	'50-52	11/2/2006	0.0380 U	0.0220 U	0.0290 U	0.0410 U	0.0480 U	0.0360 U	0.0280 U
LP-11-0-0.5	'0-0.5	8/27/2001	0.00670 U	0.00670 U	0.00670 U			0.00670 U	0.00670 U
LP-12-0-0.5	'0-0.5	8/27/2001	0.00720 U	0.00720 U	0.00720 U			0.00720 U	0.00720 U
LP-12-4-6	'4-6	8/27/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00580 U
LP-13-0-0.5	'0-0.5	8/24/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00500 U
LP-14-0.5-2	'0.5-2	8/24/2001	0.00540 U	0.00540 U	0.00540 U			0.00540 U	0.00540 U
LP-14-0-0.5	'0-0.5	8/24/2001	0.00640 U	0.00640 U	0.00640 U			0.00640 U	0.00640 U
LP-15-0-0.5	'0-0.5	8/24/2001	0.00680 U	0.00680 U	0.00680 U			0.00680 U	0.00680 U
LP-16-0.5-2	'0.5-2	8/27/2001	0.00440 U	0.00440 U	0.00440 U			0.00440 U	0.00440 U
LP-16-0-0.5	'0-0.5	8/27/2001	0.00730 U	0.00730 U	0.00730 U			0.00730 U	0.00730 U
LP-2-0.5-2	'0.5-2	8/28/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.00480 U
LP-2-0-0.5	'0-0.5	8/28/2001	0.00690 U	0.00690 U	0.00690 U			0.00690 U	0.00690 U
LP-3-0-0.5	'0-0.5	8/27/2001	0.00570 U	0.00570 U	0.00570 U			0.00570 U	0.00570 U
LP-4 .5-2	'0.5-2	8/21/2001	0.640 U	0.640 U	0.640 U			0.640 U	0.640 U
LP-4 0-.5	'0-0.5	8/21/2001	0.580 U	0.580 U	0.580 U			0.580 U	0.580 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
LP-5-0-0.5	'0-0.5	8/27/2001	0.00620 U	0.00620 U	0.00620 U			0.00620 U	0.00620 U
LP-6-0-0.5	'0-0.5	8/27/2001	0.00640 U	0.00640 U	0.00640 U			0.00640 U	0.00640 U
LP-6-4-6	'4-6	8/27/2001	0.00660 U	0.00660 U	0.00660 U			0.00660 U	0.00660 U
LP-7-0-0.5	'0-0.5	8/24/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00500 U
LP-8-0-0.5	'0-0.5	8/24/2001	0.00620 U	0.00620 U	0.00620 U			0.00620 U	0.00620 U
LP-8-10-12	'10-12	8/24/2001	0.0120 U	0.0120 U	0.0120 U			0.0120 U	0.0120 U
LP-9-0-0.5	'0-0.5	8/24/2001	0.00700 U	0.00700 U	0.00700 U			0.00700 U	0.00700 U
MW-11D-12-14	'12-14	12/14/2006	0.130 U	0.0750 U	0.100 U	0.140 U	0.160 U	0.120 U	0.0950 U
MW-11D-14-16	'14-16	12/14/2006	0.0460 U	0.0270 U	0.0350 U	0.0490 U	0.0580 U	0.0440 U	0.0330 U
MW-11D-16-18	'16-18	12/14/2006	0.0440 U	0.0250 U	0.0330 U	0.0460 U	0.0550 U	0.0410 U	0.0310 U
MW-14D-13-15	'13-15	11/14/2006	0.0510 U	0.0290 U	0.0380 U	0.0540 U	0.0630 U	0.0480 U	0.0360 U
MW-14D-17-19	'17-19	11/14/2006	0.0410 U	0.0240 U	0.0310 U	0.0440 U	0.0510 U	0.0390 U	0.0300 U
MW-16D-13-15	'13-15	11/17/2006	0.0360 U	0.0210 U	0.0280 U	0.0390 U	0.0460 U	0.0340 U	0.0260 U
MW-16D-17-19	'17-19	11/20/2006	0.0360 U	0.0200 U	0.0270 U	0.0380 U	0.0450 U	0.0340 U	0.0260 U
MW-17D-15-17	'15-17	11/10/2006	0.0480 U	0.0270 U	0.0360 U	0.0510 U	0.0600 U	0.0450 U	0.0350 U
MW-17D-17-19	'17-19	11/10/2006	0.0370 U	0.0210 U	0.0280 U	0.0390 U	0.0460 U	0.0350 U	0.0270 U
MW-18D-13-15	'13-15	11/13/2006	0.0560 U	0.0320 U	0.0420 U	0.0590 U	0.0700 U	0.0530 U	0.0400 U
MW-18D-17-19	'17-19	11/13/2006	0.0380 U	0.0220 U	0.0290 U	0.0410 U	0.0480 U	0.0360 U	0.0270 U
MW-20D-12-14	'12-14	11/9/2006	0.0590 U	0.0340 U	0.0450 U	0.0620 U	0.0730 U	0.0550 U	0.0420 U
MW-20D-32-34	'32-32.9	11/10/2006	0.0340 U	0.0200 U	0.0260 U	0.0370 U	0.0430 U	0.0320 U	0.0250 U
MW-20D-36-38	'36-38	11/10/2006	0.0410 U	0.0240 U	0.0310 U	0.0440 U	0.0520 U	0.0390 U	0.0300 U
MW-21D-13-15	'13-13.7	11/16/2006	0.0560 U	0.0320 U	0.0430 U	0.0600 U	0.0700 U	0.0530 U	0.0400 U
MW-21D-15-17	'15-17	11/16/2006	0.0390 U	0.0220 U	0.0300 U	0.0410 U	0.0490 U	0.0370 U	0.0280 U
MW-23D-15-17	'15-16	11/15/2006	0.0510 U	0.0290 U	0.0390 U	0.0540 U	0.0640 U	0.0480 U	0.0370 U
MW-23D-37-39	'37-37.9	11/15/2006	0.0480 U	0.0280 U	0.0370 U	0.0520 U	0.0610 U	0.0460 U	0.0350 U
MW-25D-10-12	'10-12	11/21/2006	0.130 U	0.0730 U	0.0970 U	0.140 U	0.160 U	0.120 U	0.0920 U
MW-25D-33-35	'33-35	12/18/2006	0.0460 U	0.0260 U	0.0350 U	0.0490 U	0.0570 U	0.0430 U	0.0330 U
MW-26S-8-10	'8-10	10/26/2006	0.0510 U	0.0290 U	0.0390 U	0.0540 U	0.0640 U	0.0480 U	0.0370 U
MW-6D-0-2	'0-2	11/8/2006	0.0370 U	0.0210 U	0.0280 U	0.0400 U	0.0470 U	0.0350 U	0.0270 U
MW-6D-12-14	'12-14	11/8/2006	0.170 U	0.0960 U	0.130 U	0.180 U	0.210 U	0.160 U	0.120 U
MW-6D-16-18	'16-18	11/20/2006	0.110 U	0.0610 U	0.0810 U	0.110 U	0.130 U	0.100 U	0.0770 U
MW-6D-30-32	'30-32	11/21/2006	0.0490 U	0.0280 U	0.0370 U	0.0520 U	0.0620 U	0.0460 U	0.0350 U
PCA-1-0-.5	'0-2	7/17/2001	0.0390 U	0.0390 U	0.0390 U			0.0390 U	0.0390 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
PCA-1-4-6	'4-6	7/17/2001	0.00700 U	0.00700 U	0.00700 U			0.00700 U	0.00700 U
PCA-2-0-.5	'0-0.5	7/17/2001	0.00490 U	0.00490 U	0.00490 U	0.00890 JN		0.00490 U	0.00490 U
PCA-3-0-0.5	'0-0.5	9/13/2001	0.00600 U	0.00600 U	0.00270 J			0.00600 U	0.00240 U
PCA-3-4-6	'4-6	9/13/2001	0.0100 U	0.0100 U	0.0494			0.0100 U	0.00420 U
PCA-4-0-0.5	'0-0.5	9/13/2001	0.00560 U	0.00560 U	0.00560 U			0.00560 U	0.00220 U
PCA-4-4-6	'4-6	9/26/2001	0.00770 U	0.00770 U	0.0165			0.00770 U	0.00310 U
PCA-5-0.5-2	'0.5-2	9/7/2001	0.00430 U	0.00430 U	0.00430 U			0.00960	0.00170 U
PCA-5-0-0.5	'0-0.5	9/7/2001	0.00520 U	0.00520 U	0.0144			0.0965	0.00210 U
PCA-6-0-0.5	'0-0.5	9/7/2001	0.00630 U	0.00630 U	0.00630 U			0.00630 U	0.00250 U
RR-1 0-0.5	'0-0.5	8/22/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.00480 U
RR-1 14-16	'14-16	8/22/2001	0.290 U	0.290 U	0.290 U			0.290 U	0.276 J
RR-10 0-.5	'0-0.5	10/12/2001	0.00640 U	0.00640 U	0.00640 U			0.00640 U	0.00260 U
RR-11 0-.5	'0-0.5	10/12/2001	0.00630 U	0.00630 U	0.00630 U			0.00630 U	0.00250 U
RR-12 0-.5	'0-0.5	10/12/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00210 U
RR-2-0-0.5	'0-0.5	9/13/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00200 U
RR-2-8-10	'8-10	9/13/2001	0.00730 U	0.00730 U	0.00730 U			0.00730 U	0.00290 U
RR-3-0-0.5	'0-0.5	9/13/2001	0.00560 U	0.00560 U	22.2			0.00560 U	0.00220 U
RR-4-0-0.5	'0-0.5	9/10/2001	0.00820 U	0.00820 U	0.00820 U			0.00820 U	0.00330 U
RR-4-6-8	'6-8	9/13/2001	0.0100 U	0.0100 U	0.00990 J			0.0100 U	0.00420 U
RR-5-0-0.5	'0-0.5	9/10/2001	0.00720 U	0.00720 U	0.00720 U			0.00720 U	0.00290 U
RR-6-0-0.5	'0-0.5	9/10/2001	0.00630 U	0.00630 U	0.00630 U			0.00630 U	0.00250 U
RR-6-8-10	'8-10	9/10/2001	0.00400 U	0.00400 U	0.00400 U			0.00400 U	0.00160 U
RR-7-0-0.5	'0-0.5	9/10/2001	0.00510 U	0.00510 U	0.00510 U			0.0312	0.00200 U
RR-8-0-0.5	'0-0.5	9/26/2001	0.00740 U	0.00740 U	0.00740 U			0.00740 U	0.00290 U
RR-8-6-8	'6-8	9/26/2001	0.0240 U	0.0240 U	0.0240 U			0.0240 U	0.00960 U
RR-9 0-.5	'0-0.5	10/12/2001	0.00660 U	0.00660 U	0.00660 U			0.00660 U	0.00270 U
SC-1	'0-1	8/21/2001	0.00760 U	0.00760 U	0.00760 U			0.00760 U	0.00760 U
SC-2	'0-1	8/22/2001	0.00660 U	0.00660 U	0.00660 U			0.00660 U	0.00660 U
SC-3	'0-1	8/22/2001	0.00690 U	0.00690 U	0.00690 U			0.00690 U	0.00690 U
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.00530 U	0.00530 U	0.00530 U			0.00530 U	0.00110 U
SILO-B1-6-8	'6-8	9/6/2001	0.0210 U	0.0210 U	0.0210 U			0.0210 U	0.309
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00100 U
SILO-B3-0-0.5	'0-0.5	9/6/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.000990 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
SILO-B3-6-8	'6-8	9/6/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.000960 U
SILO-B4-0-0.5	'0-0.5	9/6/2001	0.00800 U	0.00800 U	0.00800 U			0.00800 U	0.00350
SPR-1-0-0.5	'0-0.5	9/5/2001	0.00570 U	0.00570 U	0.00570 U			0.00570 U	0.00290
SPR-1-8-10	'8-10	9/5/2001	0.0120 U	0.0120 U	0.0120 U			0.0120 U	0.00250 U
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.00900 U	0.00900 U	0.00900 U			0.00900 U	0.00600 J
SPR-2A-8-10	'8-10	7/19/2001	0.980 U	0.980 U	0.980 U			0.980 U	0.980 U
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.0120 U	0.0120 U	0.0120 U			0.0120 U	0.0120 U
SPR-2B-10-12	'10-12	7/19/2001	1.10 U	1.10 U	1.10 U			1.10 U	1.10 U
SPR-3 0-.5	'0-0.5	8/21/2001	0.430 U	0.430 U	0.430 U			0.430 U	0.430 U
SPR-3 4-6	'4-6	8/21/2001	0.540 U	0.540 U	0.540 U			0.540 U	0.540 U
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00500 U
SPR-4A-8-10	'8-10	7/19/2001	1.10 U	1.10 U	1.10 U			1.10 U	1.10 U
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.00660 U	0.00660 U	0.00390 J			0.00660 U	0.00660 U
SPR-4B-4-6	'4-6	8/23/2001	0.00770 U	0.00770 U	0.00770 U			0.00770 U	0.00770 U
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00580 U
SPR-4C-4-6	'4-6	8/23/2001	0.360 U	0.360 U	0.360 U			0.360 U	0.360 U
SPR-5-0-0.5	'0-0.5	9/5/2001	0.00600 U	0.00600 U	0.00600 U			0.00600 U	0.00240 U
SPR-5-2-4	'2-4	9/5/2001	0.00820 U	0.00820 U	0.00820 U			0.00820 U	0.0211
SPR-6-0.5-2	'0.5-2	9/13/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00230 U
SPR-6-0-0.5	'0-0.5	9/13/2001	0.00530 U	0.00530 U	0.00530 U			0.00530 U	0.00210 U
SR-1-0-.5	'0-0.5	7/17/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00580 U
SR-2-0-.5	'0-0.5	7/17/2001	0.00670 U	0.00670 U	0.00670 U			0.00670 U	0.00670 U
ST-1-0-0.5	'0-0.5	9/5/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00100 U
ST-2-0-0.5	'0-0.5	9/5/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.000960 U
ST-3-0-0.5	'0-0.5	9/4/2001	0.00590 U	0.00590 U	0.00590 U			0.00590 U	0.00120 U
ST-3-4-6	'4-6	9/4/2001	0.00770 U	0.00770 U	0.00770 U			0.00770 U	0.00150 U
TES-1-0-1	'0-1	12/5/2006	0.0490 U	0.0280 U	0.0370 U			0.0460 U	0.109 J
TES-2-0-1	'0-1	12/4/2006	0.0560 U	0.0320 U	0.0420 U	0.0590 U	0.0700 U	0.0530 U	0.0400 U
TES-3-0-1	'0-1	12/4/2006	0.0470 U	0.0270 U	0.0360 U	0.0500 U	0.0590 U	0.0450 U	0.0340 U
TES-4-0-1	'0-1	12/5/2006	0.0560 U	0.0320 U	0.0430 U			0.0530 U	0.375
TLN-1 .5-2	'0.5-2	8/20/2001	0.00590 U	0.00590 U	0.00590 U			0.00590 U	0.00590 U
TLN-1 0-.5	'0-0.5	8/20/2001	0.00560 U	0.00560 U	0.00560 U			0.00560 U	0.00560 U
TLN-2-0-0.5	'0-0.5	7/19/2001	0.00760 U	0.00760 U	0.00760 U			0.00760 U	0.00760 U

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
TLN-3-0-.5	'0-0.5	7/17/2001	0.00580 U	0.00580 U	0.00610			0.00580 U	0.00230 J
TLN-3-2-4	'2-4	7/17/2001	0.00500 U	0.00500 U	0.00500 U			0.00500 U	0.00500 U
TLN-4 0-.5	'0-0.5	8/20/2001	0.00540 U	0.00540 U	0.00540 U			0.00540 U	0.00540 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.00480 U
TLN-5 .5-2	'0.5-2	8/20/2001	0.0120 U	0.0120 U	0.0120 U			0.0120 U	0.0120 U
TLN-5 0-.5	'0-0.5	8/20/2001	0.00660 U	0.00660 U	0.00660 U			0.00660 U	0.0321
TLN-5-4-6	'4-6	8/30/2001	0.00510 U	0.00510 U	0.00510 U			0.00510 U	0.00100 U
TLN-6 0-.5	'0-0.5	8/20/2001	0.00480 U	0.00480 U	0.00480 U			0.00480 U	0.00480 U
TLS-10 0-.5	'0-0.5	8/21/2001	0.520 U	0.520 U	0.520 U			0.520 U	0.520 U
TLS-10 8-10	'8-10	8/21/2001	0.620 U	0.620 U	0.620 U			0.620 U	0.620 U
TLS-1-0-0.5	'0-0.5	9/5/2001	0.0120 U	0.0120 U	0.0120 U			0.0120 U	0.00230 U
TLS-11-0-0.5	'0-0.5	9/7/2001	0.00700 U	0.00700 U	0.00700 U			0.00700 U	0.00280 U
TLS-2-0-0.5	'0-0.5	9/7/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00210 U
TLS-2-6-8	'6-8	9/7/2001	0.0180 U	0.0180 U	0.0180 U			0.0180 U	0.00720 U
TLS-3 0-.5	'0-0.5	8/21/2001	0.460 U	0.460 U	0.460 U			0.460 U	0.460 U
TLS-4-0-0.5	'0-0.5	9/7/2001	0.00520 U	0.00520 U	0.00520 U			0.00520 U	0.00210 U
TLS-4-8-10	'8-10	9/7/2001	0.0100 U	0.0100 U	0.0100 U			0.0100 U	0.00680
TLS-5 0-0.5	'0-0.5	8/21/2001	0.00530 U	0.00530 U	0.00530 U			0.00530 U	0.00530 U
TLS-5-8-10	'8-10	9/26/2001	0.00980 U	0.00980 U	0.00980 U			0.00980 U	0.00390 U
TLS-6 0-.5	'0-0.5	8/21/2001	0.470 U	0.470 U	0.470 U			0.470 U	0.386 J
TLS-6-3-5	'3-5	9/26/2001	0.00530 U	0.00530 U	0.00530 U			0.00530 U	0.00210 U
TLS-7 0-.5	'0-0.5	8/21/2001	0.550 U	0.550 U	0.550 U			0.550 U	0.550 U
TLS-8-0-0.5	'0-0.5	9/7/2001	0.00570 U	0.00570 U	0.00570 U			0.00570 U	0.00230 U
TLS-8-6-8	'6-8	9/7/2001	0.0110 U	0.0110 U	0.0110 U			0.0110 U	0.00430 U
TLS-9 0-.5	'0-0.5	8/21/2001	0.450 U	0.450 U	0.450 U			0.450 U	0.450 U
TP-105	'0-0	6/8/2007	0.0400 U	0.0580 U	0.0230 U	0.0340 U	0.0270 U	0.0400 U	0.0190 U
TP-105A	'0-0	6/8/2007	0.0340 U	0.0490 U	0.0200 U	0.0290 U	0.0230 U	0.0340 U	0.0160 U
TP-106-A	'0-0	6/8/2007	0.0410 U	0.0590 U	0.0240 U	0.0340 U	0.0270 U	0.0410 U	0.0190 U
TP-106-B	'0-0	6/8/2007	0.0260 U	0.0380 U	0.0150 U	0.0220 U	0.0180 U	0.0260 U	0.0120 U
WWT-1-0-0.5	'0-0.5	7/19/2001	0.00740 U	0.00740 U	0.00740 U			0.00740 U	0.00740 U
WWT-101-15-17	'15-17	11/6/2006	0.0460 U	0.0260 U	0.0350 U	0.0490 U	0.0580 U	0.0430 U	0.0330 U
WWT-101-21-23	'21-23	11/6/2006	0.0390 U	0.0220 U	0.0290 U	0.0410 U	0.0480 U	0.0370 U	0.0280 U
WWT-1-12-14	'12-14	8/23/2001	0.0256	0.00640 U	0.0319			0.00640 U	0.0647

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
WWT-2-0-0.5	'0-0.5	8/23/2001	0.00580 U	0.00580 U	0.00580 U			0.00580 U	0.00580 U
WWT-2-12-14	'12-14	8/23/2001	0.00920 U	0.00920 U	0.0704			0.00920 U	1.57 J
WWT-3-0-0.5	'0-0.5	8/23/2001	0.00640 U	0.00640 U	0.00640 U			0.00640 U	0.00640 U
WWT-3-12-14	'12-14	8/23/2001	0.00520 U	0.00520 U	0.0107			0.00520 U	0.00940

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide	Inorganic Carbon
			mg/kg	mg/kg
SRS			23000	
12K-B1-0.5-2	'0.5-2	9/6/2001	1.10 U	--
12K-B1-0-0.5	'0-0.5	9/6/2001	1.10 U	--
12K-B2-0.5-2	'0.5-2	9/6/2001	1.10 U	--
12K-B2-0-0.5	'0-0.5	9/6/2001	1.20 U	--
150K-1-0.5-2	'0.5-2	9/10/2001	1.10 U	--
150K-1-0-0.5	'0-0.5	9/10/2001	1.20 U	--
230-B1-0.5	'0-0.5	10/2/2001	1.20 U	--
230-B10-0-0.5	'0-0.5	8/30/2001	1.50 U	--
230-B10-1.5-2	'1.5-2	8/30/2001	1.30 U	--
230-B11-0-0.5	'0-0.5	8/30/2001	1.00 U	--
230-B11-1.5-2	'1.5-2	8/30/2001	1.10 U	--
230-B1-4-6	'4-6	10/2/2001	1.20 U	--
230-B2-0-0.5	'0-0.5	8/30/2001	1.20 U	--
230-B2-1.5-2	'1.5-2	8/30/2001	1.10 U	--
230-B3-0-0.5	'0-0.5	8/30/2001	1.20 U	--
230-B3-1.5-2	'1.5-2	8/30/2001	1.20 U	--
230-B4-0-0.5	'0-0.5	8/30/2001	1.20 U	--
230-B4-1.5-2	'1.5-2	8/30/2001	1.10 U	--
230-B5-0-0.5	'0-0.5	9/13/2001	1.20 U	--
230-B5-1.5-2	'1.5-2	9/13/2001	1.10 U	--
230-B6 0-0.5	'0-0.5	8/22/2001	1.10 U	--
230-B6 1.5-2	'1.5-2	8/22/2001	1.10 U	--
230-B7 0-0.5	'0-0.5	8/22/2001	1.10 U	--
230-B7 1.5-2	'1.5-2	8/22/2001	1.10 U	--
230-B8 1.5-2	'1.5-2	8/22/2001	1.20 U	--
230-B9 0-0.5	'0-0.5	8/22/2001	1.00 U	--
230-B9 0-0.5	'0-0.5	8/22/2001	1.10 U	--
230-B9 1.5-2	'1.5-2	8/22/2001	1.00 U	--
231-B1-0-0.5	'0-0.5	10/5/2001	1.10 U	--
231-B10-0-0.5	'0-0.5	9/17/2001	1.20 U	--
231-B11-0-0.5	'0-0.5	9/19/2001	1.30 U	--
231-B11-8-10	'8-10	9/19/2001	1.20 U	--
231-B12-0-0.5	'0-0.5	9/17/2001	1.20 U	--
231-B13-0-0.5	'0-0.5	9/19/2001	1.20 U	--
231-B13-8-10	'9-10	9/27/2001	1.20 U	--
231-B14-0-0.5	'0-0.5	9/19/2001	1.10 U	--
231-B2-0.5-2	'0.5-2	8/22/2001	1.20 U	--
231-B2-0-0.5	'0-0.5	8/22/2001	1.10 U	--
231-B3-0-0.5	'0-0.5	8/22/2001	1.10 U	--
231-B4-0-0.5	'0-0.5	8/30/2001	1.10 U	--
231-B4-6-8	'6-8	9/27/2001	1.20 U	--
231-B5-0.5-2	'0.5-2	9/19/2001	1.20 U	--
231-B6-0-0.5	'0-0.5	9/27/2001	1.20 U	--
231-B6-4-6	'4-6	9/27/2001	1.10 U	--
231-B7-0-0.5	'0-0.5	9/13/2001	1.20 U	--
231-B8-0-0.5	'0-0.5	9/27/2001	2.30 UJ	--
231-B8-8-10	'8-10	9/27/2001	1.70 U	--
231-B9-0.5-2	'0.5-2	9/27/2001	1.50 U	--
231-B9-0-0.5	'0-0.5	9/27/2001	1.40 U	--
240-1-0-0.5	'0-0.5	9/26/2001	25.9 J	--

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide	Inorganic Carbon
			mg/kg	mg/kg
240-1-8-10	'8-10	10/1/2001	1.20 U	--
5K-B1-0-0.5	'0-0.5	10/1/2001	1.30 U	--
5K-B2-0-0.5	'0-0.5	8/31/2001	1.10 U	--
5K-B2-8-10	'8-10	8/31/2001	1.20 U	--
5K-B3-0-0.5	'0-0.5	9/26/2001	1.10 U	--
5K-B4-0-0.5	'0-0.5	10/1/2001	1.30 U	--
5K-B4-4-6	'4-6	10/1/2001	1.40 U	--
5K-B5-0-0.5	'0-0.5	8/31/2001	1.10 U	--
5K-B5-4-6	'4-6	9/26/2001	1.20 U	--
AB-1-0-0.5	'0-0.5	9/4/2001	1.10 U	--
AB-2-0.5-2	'0.5-2	9/4/2001	1.30 U	--
AB-2-0-0.5	'0-0.5	9/4/2001	1.10 U	--
ADN-1-0-0.5	'0-0.5	9/5/2001	1.10 U	--
ADN-1-8-10	'8-10	9/5/2001	1.40 U	--
ADN-2-0-0.5	'0-0.5	9/5/2001	1.10 U	--
ADN-2-10-11	'10-11	9/27/2001	1.10 U	--
ADS-1-0-.5	'0-0.5	7/17/2001	1.20 U	--
ADS-10-0-0.5	'0-2	7/18/2001	1.10 U	--
ADS-101-0-1	'0-1	12/5/2006	0.340	--
ADS-101-1-3	'1-3	12/5/2006	0.230 U	--
ADS-102-0-1.5	'0-2	12/5/2006	0.270 U	--
ADS-102-7-8	'4-8	12/5/2006	0.280 U	--
ADS-10-4-6	'4-6	7/18/2001	1.30 U	--
ADS-11-0-0.5	'0-2	7/18/2001	1.10 U	--
ADS-12-0.5-2	'0.5-2	7/18/2001	1.20 U	--
ADS-12-0-0.5	'0-0.5	7/18/2001	1.10 U	--
ADS-2-0-0.5	'0-0.5	7/18/2001	1.10 U	--
ADS-2-4-6	'4-6	7/18/2001	1.20 U	--
ADS-3-0-0.5	'0-0.5	7/18/2001	1.10 U	--
ADS-4-0-0.5	'0-2	7/18/2001	1.10 U	--
ADS-4-12-14	'12-14	7/18/2001	1.20 U	--
ADS-5-0-0.5	'0-0.5	7/18/2001	1.10 U	--
ADS-5-4-6	'4-6	9/27/2001	1.10 U	--
ADS-6-0.5-2	'0.5-2	7/18/2001	1.20 U	--
ADS-6-0-0.5	'0-0.5	7/18/2001	1.10 U	--
ADS-7-0-.5	'0-0.5	7/17/2001	1.00 U	--
ADS-8-0-0.5	'0-0.5	7/18/2001	1.90	--
ADS-8-4-6	'4-6	7/18/2001	1.30 U	--
ADS-9-0-0.5	'0-0.5	7/18/2001	1.20 U	--
BLIND DUP	'0-0	8/21/2001	1.10 U	--
BSL-10-0-1	'0-1	9/21/2001	12.0	--
BSL-1-0-1	'0-1	9/20/2001	1.30 U	--
BSL-11-0-1	'0-1	9/26/2001	1.30 U	--
BSL-12-0-1	'0-1	9/26/2001	1.10 U	--
BSL-1-4-6	'4-6	9/20/2001	1.40 U	--
BSL-2-0-1	'0-1	9/21/2001	1.50 U	--
BSL-3-0-0.5	'0-0.5	9/20/2001	1.10 U	--
BSL-4-0-1	'0-0.5	9/21/2001	1.20 U	--
BSL-4-4-6	'4-6	9/21/2001	1.90 U	--
BSL-5-0-.5	'0-0.5	9/21/2001	1.20 U	--
BSL-6-0-1	'0-1	9/26/2001	1.60 U	--

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide	Inorganic Carbon
			mg/kg	mg/kg
BSL-6-1-2	'1-2	9/26/2001	2.30	--
BSL-7-0-.5	'0-0.5	9/21/2001	1.30 U	--
BSL-8-0-1	'0-1	9/26/2001	1.60 U	--
BSL-9-.5-2	'0.5-2	9/21/2001	96.9	--
BSL-9-0-.5	'0-0.5	9/21/2001	1.20 U	--
BT-B1-0-0.5	'0-0.5	9/18/2001	1.20 U	--
BT-B2-0.5-2	'0.5-2	9/18/2001	1.10 U	--
BT-B2-0-0.5	'0-0.5	9/18/2001	1.20 U	--
BT-B3-0-0.5	'0-0.5	9/18/2001	1.10 U	--
BT-B4-0.5-2	'0.5-2	8/30/2001	1.20 U	--
BT-B4-0-0.5	'0-0.5	8/30/2001	0.980 U	--
BT-B5-0-.5	'0-0.5	10/2/2001	1.20 U	--
BT-B6-0.5-2	'0.5-2	9/17/2001	1.20 U	--
BT-B6-0-0.5	'0-0.5	9/17/2001	1.00 U	--
CF-1-0-0.5	'0-0.5	8/31/2001	1.10 U	--
CF-1-2-4	'2-4	8/31/2001	1.20 U	--
CF-2-0-0.5	'0-0.5	8/28/2001	1.20 U	--
CF-3-0.5-2	'0.5-2	8/28/2001	8.20	--
CF-3-0-0.5	'0-0.5	8/28/2001	1.60 U	--
CF-4-0-0.5	'0-0.5	8/28/2001	1.20 U	--
CF-5-0-0.5	'0-0.5	8/28/2001	1.10 U	--
CF-5-4-6	'4-6	8/28/2001	1.10 U	--
CF-6-0-0.5	'0-0.5	8/28/2001	1.10 U	--
CF-7-0-0.5	'0-0.5	8/28/2001	1.10 U	--
CF-7-4-6	'4-6	8/28/2001	1.10 U	--
CF-8-0-0.5	'0-0.5	8/28/2001	1.10 U	--
CF-9-0.5-2	'0.5-2	8/31/2001	1.00 U	--
CF-9-0-0.5	'0-0.5	8/31/2001	1.20 U	--
DC-B12-0-0.5	'0-0.5	10/3/2001	1.10 U	--
DC-B12-2-4	'2-4	10/3/2001	1.20 U	--
DC-SS1-0-0.5	'0-0.5	9/18/2001	1.10 U	--
DC-SS11-0-0.5	'0-0.5	9/17/2001	1.10 U	--
DC-SS13-0-0.5	'0-0.5	9/17/2001	1.00 U	--
DC-SS15-0-0.5	'0-0.5	9/17/2001	1.20 U	--
DC-SS17-0-0.5	'0-0.5	9/17/2001	1.20 U	--
DC-SS2-0-0.5	'0-0.5	9/17/2001	1.20 U	--
DC-SS3-0-0.5	'0-0.5	9/17/2001	1.20 U	--
DC-SS6-0-0.5	'0-0.5	9/17/2001	1.10 U	--
DC-SS7-0-0.5	'0-0.5	9/17/2001	1.20 U	--
DC-SS9-0-0.5	'0-0.5	9/17/2001	1.20 U	--
DSP-1-0-0.5	'0-0.5	10/3/2001	1.10 U	--
DSP-1-4-6	'4-6	11/19/2001	1.20 U	--
DSP-2-0-0.5	'0-0.5	9/4/2001	1.00 U	--
DSP-3-0-0.5	'0-0.5	9/4/2001	1.10 U	--
DSP-3-2-4	'2-4	9/4/2001	1.20 U	--
DSP-4-0-0.5	'0-0.5	9/4/2001	1.20 U	--
DSP-4-4-6	'4-6	9/26/2001	1.30 U	--
DUP-01-010824	'0-0.5	8/24/2001	1.20 U	--
DUP-01-010831	'2-4	8/31/2001	1.10 U	--
DUP-01-010904	'0-0.5	9/4/2001	1.00 U	--
DUP-01-010905	'8-10	9/5/2001	1.20 U	--

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide	Inorganic Carbon
			mg/kg	mg/kg
DUP-01-010906	'0-8	9/6/2001	1.50 U	--
DUP-01-010913	'0-0.5	9/13/2001	1.10 U	--
DUP-01-010917	'0-0.5	9/17/2001	1.10 U	--
DUP-01-010926	'1-2	9/26/2001	1.90 U	--
DUP-01-010927	'4-6	9/27/2001	1.10 U	--
DUP-01-021001	'0-0	10/2/2001	1.10 U	--
DUP-01-08 2201	'1.5-2	8/22/2001	1.10 U	--
DUP-01-121001	'0-0	10/12/2001	1.10 U	--
DUP-01-170402	'0-0	4/17/2002	1.30 U	--
DUP-02-010913	'0-0.5	9/13/2001	1.30 U	--
DUP-02-010921	'0-1	9/21/2001	3.40	--
DUP-02-010926	'4-6	9/26/2001	1.30 U	--
DUP060807	'0-0	6/8/2007	0.220 U	--
DUP-1-010828	'0-0.5	8/28/2001	1.20 U	--
DUP-1-010921	'0-0.5	9/21/2001	1.40 U	--
DUP110606	'15-17	11/6/2006	0.470 J	--
DUP112006	'16-18	11/20/2006	0.530	--
DUP112106	'10-12	11/21/2006	0.430 U	--
DUP-120506	'0-4	12/5/2006	0.240 U	--
DUP-120606	'0-4	12/6/2006	0.220 UJ	--
DUPE071801	'0-0.5	7/18/2001	1.10 U	--
EC-1	'0-1	8/21/2001	1.10 U	--
EC-2	'0-1	8/21/2001	1.10 U	--
EC-3	'0-1	8/21/2001	1.10 U	--
EC-4	'0-1	8/21/2001	1.10 U	--
EC-5	'0-1	8/21/2001	1.10 U	--
EC-6	'0-1	8/21/2001	1.20 U	--
EC-7	'0-1	8/21/2001	1.10 U	--
EC-8	'0-1	8/21/2001	1.10 U	--
EC-9	'0-1	8/21/2001	1.30 U	--
ESR-1-0-1	'0-0.5	9/4/2001	1.10 U	--
ESR-1-4-6	'4-6	9/4/2001	1.20 U	--
HB-101A	'17-17	3/5/2007	0.260 U	--
HB-102A	'0-0	3/13/2007	0.390 U	--
HB-102B	'0-0	3/14/2007	0.250 U	--
HB-102C	'0-0	3/14/2007	0.250 U	--
H-B-103A	'17-17	2/20/2007	0.320 U	--
H-B-104A	'17-17	2/23/2007	0.250 U	--
H-B-104B	'17-17	2/23/2007	0.260 U	--
H-B-104C	'17-17	2/23/2007	0.250 U	--
H-B-104D	'17-17	2/27/2007	0.270 U	--
H-B-104E	'17-17	2/27/2007	0.260 U	--
H-B-105C	'17-17	2/8/2007	0.270 U	--
H-B-105D	'17-17	2/8/2007	0.280 U	--
H-B-105E	'0-0	2/8/2007	0.250 U	--
HB-1A	'6.75-6.75	4/18/2002	1.80 U	--
HB-3A	'5.25-5.25	4/17/2002	1.50 U	--
HB-3B	'4.5-4.5	4/17/2002	1.20 U	--
HB-3C	'4.5-4.5	4/18/2002	1.20 U	--
HB-3D	'4.5-4.5	4/18/2002	1.20 U	--
HB-4A	'5.33-5.33	4/19/2002	1.10 U	--

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide	Inorganic Carbon
			mg/kg	mg/kg
HB-5A	'3-3	4/22/2002	1.20 U	--
HB-7A	'5-5	4/19/2002	1.30 U	0 J
HB-8A	'3-3	4/23/2002	1.20 U	--
HB-8B	'4.83-4.83	4/23/2002	1.20 U	--
HB-8C	'5.5-5.5	4/23/2002	1.30 U	--
HB-9A	'4.75-4.75	4/24/2002	1.20 U	--
HF-B1-0-0.5	'0-0.5	9/10/2001	1.10 U	--
HF-B1-8-10	'8-10	9/10/2001	1.30 U	--
HF-B2-0-0.5	'0-0.5	9/4/2001	1.10 U	--
HF-B2-4-6	'4-6	9/4/2001	1.10 U	--
HF-B3-0-.5	'0-0.5	10/2/2001	1.10 U	--
HF-B3-8-10	'8-10	10/2/2001	1.10 U	--
IB-1-0-2	'0-2	4/8/2002	1.10 U	--
IB-1-4-6	'4-6	4/8/2002	1.10 U	--
IB-2-12-14	'12-14	4/8/2002	1.30 U	--
IB-2-4-6	'4-6	4/8/2002	1.10 U	--
IB-3-4-6	'4-6	4/8/2002	1.30 U	--
IB-3-8-10	'8-10	4/8/2002	1.40 U	--
LB-101-0-1	'0-1	12/6/2006	0.240 UJ	--
LB-101-1-3	'1-3	12/6/2006	0.230 UJ	--
LB-102-0-1	'0-3	12/6/2006	0.250 UJ	--
LB-102-1-3	'3-7	12/6/2006	0.230 UJ	--
LB-103-0-1	'0-1	12/6/2006	0.250 UJ	--
LB-103-5-7	'5-7	12/6/2006	0.280 UJ	--
LHP-101-0-1	'0-1	12/4/2006	0.260	--
LHP-101-5-8	'4-8	12/4/2006	0.280 U	--
LHP-102-0-1	'0-1	12/5/2006	0.250 U	--
LHP-102-7-9	'7-9	12/5/2006	0.330 U	--
LHP-103-0-1	'0-1	12/5/2006	0.260 U	--
LHP-103-1-3	'1-3	12/5/2006	0.270 U	--
LHP-104-0-1	'0-1	12/5/2006	0.250 U	--
LHP-104-7-9	'4-8	12/5/2006	0.280 U	--
LHP-105-0-1	'0-1	12/5/2006	0.250 U	--
LHP-105-1-3	'1-3	12/5/2006	0.240 U	--
LHP-106-0-1	'0-1	12/4/2006	0.230 U	--
LHP-106-1-3	'1-3	12/4/2006	0.210 U	--
LHP-107-0-1	'0-1	12/5/2006	0.250 U	--
LHP-107-5-7	'4-8	12/5/2006	0.260 U	--
LHP-108-0-1	'0-1	12/6/2006	0.250 UJ	--
LHP-108-3-7	'3-7	12/6/2006	0.280 UJ	--
LHP-109-0-1	'0-1	12/6/2006	0.270 UJ	--
LHP-109-7-9	'7-9	12/6/2006	0.330 UJ	--
LHP-110-0-1	'0-1	12/4/2006	0.280 U	--
LHP-111-0-1	'0-1	12/4/2006	0.260 U	--
LHP-112-0-1	'0-1	12/4/2006	0.240 U	--
LHP-113-0-1	'0-1	12/4/2006	0.240 U	--
LHP-114-0-1	'0-1	12/4/2006	0.240 U	--
LHP-115-0-1	'0-1	12/4/2006	0.220 U	--
LHP-116-0-1	'0-1	12/4/2006	0.230 U	--
LHP-117-0-1	'0-1	12/4/2006	0.270 U	--
LHP-118-0-1	'0-1	12/4/2006	0.260 U	--

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide	Inorganic Carbon
			mg/kg	mg/kg
LHP-119-0-1	'0-1	12/4/2006	0.630	--
LHP-120-0-1	'0-1	12/4/2006	0.630	--
LHP-121-0-1	'0-1	12/6/2006	0.270 UJ	--
LHP-122-0-1	'0-1	12/6/2006	0.250 UJ	--
LHP-123-0-1	'0-1	12/4/2006	0.330	--
LHP-124-.5-2	'0.5-2	10/27/2006	0.0140 U	--
LHP-124-10-12	'10-12	10/31/2006	0.0210 U	--
LHP-124-2-4	'2-4	10/27/2006	0.0140 U	--
LHP-124-28-30	'28-30	10/31/2006	0.0170 U	--
LHP-125-.5-2	'0.5-2	10/27/2006	0.0120 U	--
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0150 U	--
LHP-125-12-14	'12-14	11/1/2006	0.0130 U	--
LHP-125-4-6	'4-6	10/27/2006	0.0130 U	--
LHP-126-10.5-12	'10.5-12	11/1/2006	0.0500 UJ	--
LHP-126-14-16	'14-16	11/1/2006	0.0140 U	--
LHP-126-2-4	'2-4	10/26/2006	0.250 U	--
LHP-126-8-10	'9-10	10/26/2006	0.290 UJ	--
LHP-127-0-1	'0-1	12/6/2006	0.220 UJ	--
LHP-127-3-5	'3-5	12/6/2006	0.230 U	--
LHP-128-0-1	'0-4	12/6/2006	0.240 UJ	--
LHP-128-7-8	'17-17	12/6/2006	0.310 UJ	--
LP-1-0-0.5	'0-0.5	8/27/2001	1.10 U	--
LP-10-0.5-2	'0.5-2	8/27/2001	1.20 U	--
LP-10-0-0.5	'0-0.5	8/27/2001	1.10 U	--
LP-101-11-13	'11-13	11/2/2006	0.0220 U	--
LP-101-14-16	'14-16	11/2/2006	0.0190 U	--
LP-101-26-28	'26-28	11/2/2006	0.0120 U	--
LP-101-50-52	'50-52	11/2/2006	0.0120 U	--
LP-11-0-0.5	'0-0.5	8/27/2001	1.20 U	--
LP-12-0-0.5	'0-0.5	8/27/2001	1.00 U	--
LP-12-4-6	'4-6	8/27/2001	1.10 U	--
LP-13-0-0.5	'0-0.5	8/24/2001	1.20 U	--
LP-14-0.5-2	'0.5-2	8/24/2001	1.10 U	--
LP-14-0-0.5	'0-0.5	8/24/2001	1.10 U	--
LP-15-0-0.5	'0-0.5	8/24/2001	1.10 U	--
LP-16-0.5-2	'0.5-2	8/27/2001	1.00 U	--
LP-16-0-0.5	'0-0.5	8/27/2001	1.10 U	--
LP-2-0.5-2	'0.5-2	8/28/2001	1.20 U	--
LP-2-0-0.5	'0-0.5	8/28/2001	1.00 U	--
LP-3-0-0.5	'0-0.5	8/27/2001	1.10 U	--
LP-4 .5-2	'0.5-2	8/21/2001	1.00 U	--
LP-4 0-.5	'0-0.5	8/21/2001	1.00 U	--
LP-5-0-0.5	'0-0.5	8/27/2001	1.10 U	--
LP-6-0-0.5	'0-0.5	8/27/2001	1.10 U	--
LP-6-4-6	'4-6	8/27/2001	1.10 U	--
LP-7-0-0.5	'0-0.5	8/24/2001	1.20 U	--
LP-8-0-0.5	'0-0.5	8/24/2001	1.20 U	--
LP-8-10-12	'10-12	8/24/2001	1.60 U	--
LP-9-0-0.5	'0-0.5	8/24/2001	1.10 U	--
MW-11D-12-14	'12-14	12/14/2006	1.40	--
MW-11D-14-16	'14-16	12/14/2006	0.260 U	--

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide	Inorganic Carbon
			mg/kg	mg/kg
MW-11D-16-18	'16-18	12/14/2006	0.260 U	--
MW-14D-13-15	'13-15	11/14/2006	0.280 U	--
MW-14D-17-19	'17-19	11/14/2006	0.280 U	--
MW-16D-13-15	'13-15	11/17/2006	0.270 U	--
MW-16D-17-19	'17-19	11/20/2006	0.250 U	--
MW-17D-15-17	'15-17	11/10/2006	0.260 U	--
MW-17D-17-19	'17-19	11/10/2006	0.240 U	--
MW-18D-13-15	'13-15	11/13/2006	0.290 U	--
MW-18D-17-19	'17-19	11/13/2006	0.250 U	--
MW-20D-12-14	'12-14	11/9/2006	0.270 U	--
MW-20D-32-34	'32-32.9	11/10/2006	0.260 U	--
MW-20D-36-38	'36-38	11/10/2006	0.250 U	--
MW-21D-13-15	'13-13.7	11/16/2006	0.280 U	--
MW-21D-15-17	'15-17	11/16/2006	0.270 U	--
MW-23D-15-17	'15-16	11/15/2006	0.290 U	--
MW-23D-37-39	'37-37.9	11/15/2006	0.240 U	--
MW-25D-10-12	'10-12	11/21/2006	0.490 U	--
MW-25D-33-35	'33-35	12/18/2006	0.290 U	--
MW-26S-8-10	'8-10	10/26/2006	0.380 J	--
MW-6D-0-2	'0-2	11/8/2006	0.270 UJ	--
MW-6D-12-14	'12-14	11/8/2006	3.20 J	--
MW-6D-16-18	'16-18	11/20/2006	0.780	--
MW-6D-30-32	'30-32	11/21/2006	0.250 U	--
PCA-1-0-.5	'0-2	7/17/2001	1.00 U	--
PCA-1-4-6	'4-6	7/17/2001	1.20 U	--
PCA-2-0-.5	'0-0.5	7/17/2001	1.10 U	--
PCA-3-0-0.5	'0-0.5	9/13/2001	1.10 U	--
PCA-3-4-6	'4-6	9/13/2001	1.20 U	--
PCA-4-0-0.5	'0-0.5	9/13/2001	1.00 U	--
PCA-4-4-6	'4-6	9/26/2001	1.20 U	--
PCA-5-0.5-2	'0.5-2	9/7/2001	1.10 U	--
PCA-5-0-0.5	'0-0.5	9/7/2001	1.20 U	--
PCA-6-0-0.5	'0-0.5	9/7/2001	1.10 U	--
RR-1 0-0.5	'0-0.5	8/22/2001	1.10 U	--
RR-1 14-16	'14-16	8/22/2001	1.20 U	--
RR-10 0-.5	'0-0.5	10/12/2001	1.30	--
RR-11 0-.5	'0-0.5	10/12/2001	1.20 U	--
RR-12 0-.5	'0-0.5	10/12/2001	1.20 U	--
RR-2-0-0.5	'0-0.5	9/13/2001	1.20 U	--
RR-2-8-10	'8-10	9/13/2001	1.50 U	--
RR-3-0-0.5	'0-0.5	9/13/2001	1.10 U	--
RR-4-0-0.5	'0-0.5	9/10/2001	1.10 U	--
RR-4-6-8	'6-8	9/13/2001	1.20 U	--
RR-5-0-0.5	'0-0.5	9/10/2001	1.00 U	--
RR-6-0-0.5	'0-0.5	9/10/2001	1.10 U	--
RR-6-8-10	'8-10	9/10/2001	1.10 U	--
RR-7-0-0.5	'0-0.5	9/10/2001	1.10 U	--
RR-8-0-0.5	'0-0.5	9/26/2001	1.20 U	--
RR-8-6-8	'6-8	9/26/2001	1.70 U	--
RR-9 0-.5	'0-0.5	10/12/2001	1.10 U	--
SC-1	'0-1	8/21/2001	1.30 U	--

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide	Inorganic Carbon
			mg/kg	mg/kg
SC-2	'0-1	8/22/2001	1.00 U	--
SC-3	'0-1	8/22/2001	1.10 U	--
SILO-B1-0-0.5	'0-0.5	9/6/2001	1.20 U	--
SILO-B1-6-8	'6-8	9/6/2001	1.40 U	--
SILO-B2-0-0.5	'0-0.5	9/6/2001	1.10 U	--
SILO-B3-0-0.5	'0-0.5	9/6/2001	1.10 U	--
SILO-B3-6-8	'6-8	9/6/2001	1.10 U	--
SILO-B4-0-0.5	'0-0.5	9/6/2001	1.10 U	--
SPR-1-0-0.5	'0-0.5	9/5/2001	1.10 U	--
SPR-1-8-10	'8-10	9/5/2001	1.40 U	--
SPR-2A-0-0.5	'0-0.5	7/19/2001	1.10 U	--
SPR-2A-8-10	'8-10	7/19/2001	1.30 U	--
SPR-2B-0-0.5	'0-0.5	7/19/2001	1.00 U	--
SPR-2B-10-12	'10-12	7/19/2001	1.40 U	--
SPR-3 0-.5	'0-0.5	8/21/2001	1.10 U	--
SPR-3 4-6	'4-6	8/21/2001	1.20 U	--
SPR-4A-0-0.5	'0-0.5	7/19/2001	1.20 U	--
SPR-4A-8-10	'8-10	7/19/2001	1.70 U	--
SPR-4B-0-0.5	'0-0.5	8/22/2001	1.20 U	--
SPR-4B-4-6	'4-6	8/23/2001	1.20 U	--
SPR-4C-0-0.5	'0-0.5	8/23/2001	1.10 U	--
SPR-4C-4-6	'4-6	8/23/2001	1.20 U	--
SPR-5-0-0.5	'0-0.5	9/5/2001	1.00 U	--
SPR-5-2-4	'2-4	9/5/2001	1.20 U	--
SPR-6-0.5-2	'0.5-2	9/13/2001	1.10 U	--
SPR-6-0-0.5	'0-0.5	9/13/2001	1.10 U	--
SR-1-0-.5	'0-0.5	7/17/2001	1.10 U	--
SR-2-0-.5	'0-0.5	7/17/2001	1.00 U	--
ST-1-0-0.5	'0-0.5	9/5/2001	1.00 U	--
ST-2-0-0.5	'0-0.5	9/5/2001	1.10 U	--
ST-3-0-0.5	'0-0.5	9/4/2001	1.10 U	--
ST-3-4-6	'4-6	9/4/2001	1.50 U	--
TES-1-0-1	'0-1	12/5/2006	0.260 UJ	--
TES-2-0-1	'0-1	12/4/2006	0.280 U	--
TES-3-0-1	'0-1	12/4/2006	0.930	--
TES-4-0-1	'0-1	12/5/2006	0.260 U	--
TLN-1 .5-2	'0.5-2	8/20/2001	1.20 U	--
TLN-1 0-.5	'0-0.5	8/20/2001	1.20 U	--
TLN-2-0-0.5	'0-0.5	7/19/2001	1.10 U	--
TLN-3-0-.5	'0-0.5	7/17/2001	1.10 U	--
TLN-3-2-4	'2-4	7/17/2001	1.10 U	--
TLN-4 0-.5	'0-0.5	8/20/2001	1.00 U	--
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	1.00 U	--
TLN-5 .5-2	'0.5-2	8/20/2001	1.10 U	--
TLN-5 0-.5	'0-0.5	8/20/2001	1.00 U	--
TLN-5-4-6	'4-6	8/30/2001	1.10 U	--
TLN-6 0-.5	'0-0.5	8/20/2001	1.10 U	--
TLS-10 0-.5	'0-0.5	8/21/2001	1.00 U	--
TLS-10 8-10	'8-10	8/21/2001	1.40 U	--
TLS-1-0-0.5	'0-0.5	9/5/2001	1.10 U	--
TLS-11-0-0.5	'0-0.5	9/7/2001	1.10 U	--

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide	Inorganic Carbon
			mg/kg	mg/kg
TLS-2-0-0.5	'0-0.5	9/7/2001	4.10 U	--
TLS-2-6-8	'6-8	9/7/2001	1.60 U	--
TLS-3 0-.5	'0-0.5	8/21/2001	1.00 U	--
TLS-4-0-0.5	'0-0.5	9/7/2001	1.00 U	--
TLS-4-8-10	'8-10	9/7/2001	1.60 U	--
TLS-5 0-0.5	'0-0.5	8/21/2001	1.00 U	--
TLS-5-8-10	'8-10	9/26/2001	1.50 U	--
TLS-6 0-.5	'0-0.5	8/21/2001	1.10 U	--
TLS-6-3-5	'3-5	9/26/2001	1.20 U	--
TLS-7 0-.5	'0-0.5	8/21/2001	1.10 U	--
TLS-8-0-0.5	'0-0.5	9/7/2001	1.00 U	--
TLS-8-6-8	'6-8	9/7/2001	1.30 U	--
TLS-9 0-.5	'0-0.5	8/21/2001	1.00 U	--
TP-105	'0-0	6/8/2007	0.200 U	--
TP-105A	'0-0	6/8/2007	0.210 U	--
TP-106-A	'0-0	6/8/2007	0.210 U	--
TP-106-B	'0-0	6/8/2007	0.240 U	--
WWT-1-0-0.5	'0-0.5	7/19/2001	1.10 U	--
WWT-101-15-17	'15-17	11/6/2006	0.280 UJ	--
WWT-101-21-23	'21-23	11/6/2006	0.260 U	--
WWT-1-12-14	'12-14	8/23/2001	1.30 U	--
WWT-2-0-0.5	'0-0.5	8/23/2001	1.00 U	--
WWT-2-12-14	'12-14	8/23/2001	1.30 U	--
WWT-3-0-0.5	'0-0.5	8/23/2001	1.10 U	--
WWT-3-12-14	'12-14	8/23/2001	1.10 U	--

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,3,4,6,7,8-HPCDD mg/kg	1,2,3,4,6,7,8-HPCDF mg/kg	1,2,3,4,7,8,9-HPCDF mg/kg	1,2,3,4,7,8-HXCDD mg/kg	1,2,3,4,7,8-HXCDF mg/kg	1,2,3,6,7,8-HXCDD mg/kg	1,2,3,6,7,8-HXCDF mg/kg	1,2,3,7,8,9-HXCDD mg/kg	1,2,3,7,8,9-HXCDF mg/kg
231-B1-0-0.5	'0-0.5	10/5/2001	0.000594	0.000198	0.0000549	0.00000477	0.000229	0.0000126	0.0000453	0.0000139	0.0000340
231-B10-0-0.5	'0-0.5	9/17/2001	0.0000848	0.000386	0.000135	0.00000648	0.000362	0.00000463	0.000100	0.00000259	0.0000566
231-B12-0-0.5	'0-0.5	9/17/2001	0.0000604	0.000109	0.0000382	0.00000118	0.0000749	0.00000249	0.0000216	0.00000133	0.0000158
231-B14-0-0.5	'0-0.5	9/19/2001	0.000123	0.000282	0.0000995	0.00000353	0.000275	0.00000383	0.0000760	0.00000135 U	0.0000324
231-B5-0.5-2	'0.5-2	9/19/2001	0.0000817	0.0000268	0.00000910	0.000000782	0.0000442	0.00000133	0.0000100	0.000000980	0.00000407
ADS-102-7-8	'4-8	12/5/2006	0.000102	0.00000319 A	0.000000444 A	0.000000726 A	0.00000166 A	0.000000824 A	0.000000796 A	0.000000802 A	0.000000418 A
ADS-6-0-0.5	'0-0.5	7/18/2001									
BSL-1-0-1	'0-1	9/20/2001	0.0000104	0.0000540	0.000146	0.000000315 U	0.000172	0.00000117	0.0000478	0.000000616 I	0.0000901
BSL-12-0-1	'0-1	9/26/2001	0.0000759	0.000131	0.0000914	0.000000935	0.000358	0.00000304	0.0000891	0.00000168	0.000130
BSL-6-0-1	'0-1	9/26/2001	0.0000806	0.000135	0.000268	0.00000173	0.000326	0.00000522	0.0000912	0.00000287	0.000141
CF-1-0-0.5	'0-0.5	8/31/2001	0.0000234	0.0000406	0.0000197	0.000000716	0.0000588	0.00000147	0.0000162	0.000000991 I	0.0000178
CF-5-0-0.5	'0-0.5	8/28/2001	0.0000149 J	0.0000125 J	0.00000600 J	0.000000396 J	0.0000156 J	0.000000583 J	0.00000476 J	0.000000514 J	0.00000529 J
DUP-01-010824	'0-0.5	8/24/2001	0.0000398	0.0000334	0.0000149	U	0.0000403	0.00000152	0.0000120	0.00000114	0.0000154
DUP-01-170402	'0-0	4/17/2002	0.000124	0.0000275	U	U	0.00000604	U	U	U	U
DUP112006	'16-18	11/20/2006	0.0000335	0.00000487 A	0.00000311 A	0.000000617 A	0.0000178	0.00000109 A	0.00000453 A	0.00000155 A	0.00000833
EC-3	'0-1	8/21/2001	0.0000488	0.0000192	0.00000203	0.000000809	0.00000525	0.00000246	0.00000221	0.000000558	0.00000107
EC-7	'0-1	8/21/2001	0.0000281	0.0000142	0.00000159	0.000000746	0.00000425	0.00000182	0.00000174	0.00000147	0.00000113
HB-101A	'17-17	3/5/2007	0.0000187	0.000000365 A	0.000000474 U	0.000000460 U	0.000000460 U	0.000000460 U	0.000000460 U	0.000000405 A	0.000000460 U
H-B-104B	'17-17	2/23/2007	0.00000246 A	0.0000000796 A	0.000000485 U	0.000000485 U	0.000000485 U	0.000000161 A	0.000000485 U	0.000000219 A	0.000000485 U
HB-1A	'6.75-6.75	4/18/2002	0.000178	0.000501	0.0000380	0.0000111	0.0000738	0.0000167	0.0000831	0.0000124	0.0000363
HB-3A	'5.25-5.25	4/17/2002	0.000124	0.0000344	0.00000500 U	0.00000500 U	0.00000733	0.00000500 U	0.00000500 U	0.00000500 U	0.00000500 U
HB-4A	'5.33-5.33	4/19/2002	0.000118	0.00000500 U	0.00000500 U	0.00000500 U	0.00000500 U	0.00000500 U	0.00000500 U	0.00000500 U	0.00000500 U
HB-8A	'3-3	4/23/2002	0.0000968	0.000143	0.00000500 U	0.00000669	0.0000456	0.00000722	0.0000247	0.00000606	0.0000138
LHP-111-0-1	'0-1	12/4/2006	0.000800	0.000246	0.0000482	0.00000471	0.000131	0.0000120	0.0000338	0.00000522	0.0000405
LHP-121-0-1	'0-1	12/6/2006	0.0000628	0.00000115 A	0.000000457 U	0.000000349 A	0.000000183 A	0.000000723 A	0.000000168 A	0.000000688 A	0.000000457 U
LHP-126-10.5-12	'10.5-12	11/1/2006	0.000101	0.000000383 A	0.000000646 U	0.000000975 A	0.0000000827 A	0.00000112 A	0.000000114 A	0.00000153 A	0.000000646 U
LP-1-0-0.5	'0-0.5	8/27/2001	0.0000304 J	0.0000238 J	0.00000802 J	0.000000706 J	0.0000195 J	0.000000998 J	0.00000527 J	0.000000702 J	0.00000347 J
LP-10-0-0.5	'0-0.5	8/27/2001	0.000343 J	0.00121 J	0.000925 J	0.00000614 J	0.00280 E	0.0000122 J	0.000763 J	0.00000607 J	0.000608 J
LP-16-0-0.5	'0-0.5	8/27/2001	0.000194 J	0.000939 J	0.00120 J	0.0000115 J	0.00213 J	0.00000925 J	0.000541 J	0.00000504 J	0.00104 J
LP-6-0-0.5	'0-0.5	8/27/2001	0.0000331 J	0.0000673 J	0.0000686 J	0.00000104 I	0.000139 J	0.00000160 J	0.0000427 J	0.00000124 J	0.0000550 J
LP-8-0-0.5	'0-0.5	8/24/2001	0.0000398	0.0000400	0.0000164	0.00000101 I	0.0000455	0.00000205	0.0000131	0.00000139	0.0000158

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,3,4,6,7,8-HPCDD	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDD	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDD	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDD	1,2,3,7,8,9-HXCDF
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-11D-12-14	'12-14	12/14/2006	0.0000476	0.00000636 A	0.00000160 A	0.00000336 A	0.0000262	0.00000328 A	0.00000147 A	0.00000369 A	0.00000191 A
MW-14D-13-15	'13-15	11/14/2006	0.0000936	0.00000197 A	0.000000544 A	0.000000522 U	0.00000192 A	0.000000542 U	0.00000111 A	0.00000167 A	0.000000277 A
MW-16D-17-19	'17-19	11/20/2006	0.000000736 A	0.000000115 A	0.000000481 U	0.000000481 U	0.000000481 U	0.000000481 U	0.0000000346 A	0.000000113 A	0.000000481 U
MW-18D-13-15	'13-15	11/13/2006	0.000198	0.000000189 A	0.000000458 U	0.000000286 A	0.000000458 U	0.00000279 A	0.000000458 U	0.00000259 A	0.000000458 U
MW-6D-16-18	'16-18	11/20/2006	0.0000390	0.00000510 A	0.00000311 A	0.000000599 A	0.0000200	0.00000131 A	0.00000502 A	0.00000166 A	0.00000973
SC-3	'0-1	8/22/2001	0.0000371	0.0000427 J	0.00000339 J	0.000000819	0.00000503 J	0.00000203	0.00000225	0.00000264	0.00000132 J

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,3,7,8-PECDD	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDF	Tetrachlorodibenzo-P-Dioxin	Furan, 3-Phenyl-	OCDD	OCDF
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B1-0-0.5	'0-0.5	10/5/2001	0.00000432	0.000104	0.0000241	0.0000803	0.000225	0.00000157		0.0208	0.00100
231-B10-0-0.5	'0-0.5	9/17/2001	0.00000139	0.000129	0.0000400	0.000105	0.000170	0.000000856		0.000920	0.000899
231-B12-0-0.5	'0-0.5	9/17/2001	0.000000547 I	0.0000278	0.0000108	0.0000275	0.0000365	0.000000350 I		0.000843	0.000237
231-B14-0-0.5	'0-0.5	9/19/2001	0.00000125 I	0.0000732	0.0000256	0.0000579	0.0000805	0.000000509 I		0.00219	0.000896
231-B5-0.5-2	'0.5-2	9/19/2001	0.000000444	0.0000135	0.00000390	0.00000600	0.00000941	0.000000291 I		0.00771 E	0.000135
ADS-102-7-8	'4-8	12/5/2006	0.000000435 A	0.00000149 A	0.000000623 A	0.00000165 A	0.00000479	0.000000199 A		0.0341 QE	0.00000971
ADS-6-0-0.5	'0-0.5	7/18/2001							0.870 JN		
BSL-1-0-1	'0-1	9/20/2001	0.000000419 I	0.000136	0.0000406	0.000167	0.0000680	0.000000301 I		0.000384	0.000206
BSL-12-0-1	'0-1	9/26/2001	0.000000810	0.000203	0.0000377	0.000228	0.0000974	0.000000912 I		0.00270	0.000423
BSL-6-0-1	'0-1	9/26/2001	0.00000197	0.000227	0.000114	0.000288	0.000151	0.00000285		0.00155	0.000443
CF-1-0-0.5	'0-0.5	8/31/2001	0.000000779	0.0000361	0.00000786	0.0000343	0.0000249	0.000000149 U		0.000600	0.000102
CF-5-0-0.5	'0-0.5	8/28/2001	0.000000118 UJ	0.00000909 J	0.00000264 J	0.00000905 J	0.00000936 J	0.000000107 UJ		0.000697 J	0.0000411 J
DUP-01-010824	'0-0.5	8/24/2001	0.000000630	0.0000229	0.00000685	0.0000254	0.0000174	U		0.00221	0.0000904
DUP-01-170402	'0-0	4/17/2002	U	0.00000679	U	0.00000726	0.000167	U		0.00941	0.0000730
DUP112006	'16-18	11/20/2006	0.000000538 A	0.0000124 DPE	0.00000205 A	0.0000132	0.00000726	0.000000155 A		0.000854	0.0000155 A
EC-3	'0-1	8/21/2001	0.000000697	0.00000214	0.00000233	0.00000347	0.00000276	0.000000550		0.00154	0.0000767
EC-7	'0-1	8/21/2001	0.000000605	0.00000197	0.00000195	0.00000298	0.00000211	0.000000436 I		0.00131	0.0000610
HB-101A	'17-17	3/5/2007	0.000000460 U	0.000000203 A	0.000000460 U	0.000000155 A	0.000000538 A	0.000000418 U		0.00182	0.00000159 A
H-B-104B	'17-17	2/23/2007	0.000000485 U	0.0000000912 A	0.000000485 U	0.0000000893 A	0.000000380 A	0.0000000970 U		0.000257	0.000000118 A
HB-1A	'6.75-6.75	4/18/2002	0.00000758	0.0000366	0.0000905	0.0000580	0.0000194	0.00000153		0.00158	0.000304
HB-3A	'5.25-5.25	4/17/2002	0.00000500 U	0.00000847	0.00000500 U	0.00000872	0.000209	0.00000100 U		0.0186	0.0000870
HB-4A	'5.33-5.33	4/19/2002	0.00000500 U	0.00000500 U	0.00000500 U	0.00000500 U	0.00000100 U	0.00000100 U			0.0000100 U
HB-8A	'3-3	4/23/2002	0.00000500 U	0.0000155	0.0000282	0.0000209	0.0000222	0.00000279		0.00594 E	0.000303
LHP-111-0-1	'0-1	12/4/2006	0.00000239 QA	0.0000797 Q	0.0000183	0.0000842 Q	0.0000495	0.00000215		0.0159 E	0.00297 E
LHP-121-0-1	'0-1	12/6/2006	0.000000201 A	0.000000122 A	0.000000166 A	0.000000237 A	0.000000343 A	0.000000281 U		0.00682 E	0.00000114 A
LHP-126-10.5-12	'10.5-12	11/1/2006	0.000000274 A	0.000000646 U	0.000000646 U	0.000000160 A	0.000000401 A	0.000000477 U		0.0165 E	0.00000129 U
LP-1-0-0.5	'0-0.5	8/27/2001	0.000000121 J	0.00000665 J	0.00000246 J	0.00000518 J	0.00000464 J	0.000000183 I		0.000885 J	0.0000591 J
LP-10-0-0.5	'0-0.5	8/27/2001	0.00000640 J	0.00183 J	0.000318 J	0.00141 J	0.00172 E	0.00000410 J		0.00500 E	0.00250 J
LP-16-0-0.5	'0-0.5	8/27/2001	0.00000472 J	0.00120 J	0.000350 J	0.00140 J	0.000743 E	0.00000306 J		0.00270 J	0.00337 J
LP-6-0-0.5	'0-0.5	8/27/2001	0.000000411 UJ	0.0000925 J	0.0000203 J	0.000100 J	0.0000585 J	0.000000591 UJ		0.00167 J	0.000214 J
LP-8-0-0.5	'0-0.5	8/24/2001	0.000000820	0.0000242	0.00000751	0.0000268	0.0000188	0.000000486 U		0.00169	0.000119

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,3,7,8-PECDD	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDF	Tetrachlorodibenzo-P-Dioxin	Furan, 3-Phenyl-	OCDD	OCDF
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-11D-12-14	'12-14	12/14/2006	0.00000307 A	0.0000109	0.00000125 A	0.0000126	0.0000833	0.000000879 A		0.00161	0.0000657
MW-14D-13-15	'13-15	11/14/2006	0.000000450 U	0.000000680 A	0.000000202 A	0.000000475 A	0.000000740 A	0.000000103 A		0.0114 E	0.00000352 A
MW-16D-17-19	'17-19	11/20/2006	0.000000142 A	0.0000000423 A	0.000000481 U	0.0000000519 A	0.000000163 A	0.0000000961 U		0.0000225	0.000000477 A
MW-18D-13-15	'13-15	11/13/2006	0.0000000825 A	0.000000458 U	0.000000458 U	0.0000000367 A	0.000000207 A	0.0000000458 A		0.0179 E	0.000000532 A
MW-6D-16-18	'16-18	11/20/2006	0.000000465 A	0.0000144 DPE	0.00000224 A	0.0000174	0.00000828	0.000000140 A		0.000930	0.0000140 A
SC-3	'0-1	8/22/2001	0.000000757	0.00000219	0.00000255	0.00000328	0.00000276	0.000000899		0.00121	0.000547

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total HPCDDS mg/kg	Total HPCDFS mg/kg	Total HXCDDS mg/kg	Total HXCDFS mg/kg	Total PECDDS mg/kg	Total PECDFS mg/kg	Total TCDDS mg/kg	Total TCDFS mg/kg	Total TCDFS (mg/kg)
231-B1-0-0.5	'0-0.5	10/5/2001	0.00186	0.000403	0.000182	0.000488	0.0000428	0.000449	0.0000178	0.000508	0.000508
231-B10-0-0.5	'0-0.5	9/17/2001	0.000166	0.000770	0.0000472	0.000766	0.0000123	0.000514	0.0000102	0.000602	0.000602
231-B12-0-0.5	'0-0.5	9/17/2001	0.000122	0.000217	0.0000204	0.000171	0.00000346	0.000124	0.00000462	0.000136	0.000136
231-B14-0-0.5	'0-0.5	9/19/2001	0.000429	0.000587	0.0000350	0.000528	0.00000946	0.000297	0.00000905	0.000289	0.000289
231-B5-0.5-2	'0.5-2	9/19/2001	0.000399	0.0000606	0.0000363	0.0000797	0.00000415	0.0000817	0.00000123	0.000101	0.000101
ADS-102-7-8	'4-8	12/5/2006	0.000223	0.00000447	0.0000140	0.00000630	0.00000603	0.0000119	0.00000548	0.0000239	0.0000239
ADS-6-0-0.5	'0-0.5	7/18/2001									
BSL-1-0-1	'0-1	9/20/2001	0.0000214	0.000373	0.00000316	0.000448	0.00000458	0.000466	0.00000638	0.000198	0.000198
BSL-12-0-1	'0-1	9/26/2001	0.000339	0.000332	0.0000399	0.000709	0.00000667	0.000664	0.00000399	0.000258	0.000258
BSL-6-0-1	'0-1	9/26/2001	0.000182	0.000921	0.00000982	0.000941	0.0000230	0.000766	0.0000411	0.000408	0.000408
CF-1-0-0.5	'0-0.5	8/31/2001	0.0000530	0.0000900	0.0000128	0.000126	0.00000538	0.000126	0.00000194	0.0000631	0.0000631
CF-5-0-0.5	'0-0.5	8/28/2001	0.0000337	0.0000280	0.00000485	0.0000376	0.00000248	0.0000356	0.00000238	0.0000316	0.0000316
DUP-01-010824	'0-0.5	8/24/2001	0.0000889	0.0000807	0.0000161	0.000103	0.00000710	0.0000893	0.00000452	0.0000579	0.0000579
DUP-01-170402	'0-0	4/17/2002	0.000715	0.0000466	0.0000662	0.0000208	U	0.0000387	0.00000802	0.000308	0.000308
DUP112006	'16-18	11/20/2006	0.000142	0.0000150	0.0000318	0.0000375	0.00000640	0.0000331	0.000000978	0.0000149	0.0000149
EC-3	'0-1	8/21/2001	0.000102	0.0000472	0.0000242	0.0000313	0.00000707	0.0000252	0.00000692	0.0000215	0.0000215
EC-7	'0-1	8/21/2001	0.0000590	0.0000309	0.0000197	0.0000243	0.00000595	0.0000196	0.00000266	0.0000148	0.0000148
HB-101A	'17-17	3/5/2007	0.000130	0.00000110	0.0000241	0.000000460 U	0.00000340	0.000000357	0.000000645	0.000000945	0.000000945
H-B-104B	'17-17	2/23/2007	0.00000937	0.000000485 U	0.0000226	0.000000120	0.00000848	0.000000241	0.00000271	0.000000732	0.000000732
HB-1A	'6.75-6.75	4/18/2002	0.000441	0.000640	0.000278	0.000737	0.000123	0.000730	0.0000654	0.000558	0.000558
HB-3A	'5.25-5.25	4/17/2002	0.000654	0.0000566	0.0000770	0.0000236	0.00000500 U	0.0000398	0.00000882	0.000369	0.000369
HB-4A	'5.33-5.33	4/19/2002	0.000394	0.00000500 U	0.0000729	0.00000500 U	0.00000500 U	0.00000500 U	0.00000102	0.00000100 U	0.00000100 U
HB-8A	'3-3	4/23/2002	0.000246	0.000198	0.000157	0.000316	0.0000453	0.000664	0.0000329	0.000284	0.000284
LHP-111-0-1	'0-1	12/4/2006	0.00356	0.000733	0.000206	0.000419	0.0000440	0.000962	0.0000379	0.000373	0.000373
LHP-121-0-1	'0-1	12/6/2006	0.000147	0.00000179	0.00000896	0.00000172	0.00000184	0.00000210	0.000000542	0.00000173	0.00000173
LHP-126-10.5-12	'10.5-12	11/1/2006	0.000337	0.000000646 U	0.0000256	0.000000240	0.00000110	0.000000352	0.00000261	0.00000743	0.00000743
LP-1-0-0.5	'0-0.5	8/27/2001	0.0000823	0.0000504	0.0000105	0.0000422	0.00000214	0.0000237	0.000000671	0.0000155	0.0000155
LP-10-0-0.5	'0-0.5	8/27/2001	0.00205	0.00335	0.000204	0.00516	0.0000582	0.00498	0.0000467	0.00355	0.00355
LP-16-0-0.5	'0-0.5	8/27/2001	0.000613	0.00377	0.000124	0.00492	0.0000540	0.00389	0.0000290	0.00190	0.00190
LP-6-0-0.5	'0-0.5	8/27/2001	0.0000887	0.000222	0.0000153	0.000316	0.00000314	0.000302	0.00000128	0.000165	0.000165
LP-8-0-0.5	'0-0.5	8/24/2001	0.0000859	0.0000935	0.0000188	0.000108	0.00000593	0.0000822	0.00000444	0.0000552	0.0000552

APPENDIX J-1
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total HPCDDS mg/kg	Total HPCDFS mg/kg	Total HXCDDS mg/kg	Total HXCDFS mg/kg	Total PECDDS mg/kg	Total PECDFS mg/kg	Total TCDDS mg/kg	Total TCDFS mg/kg	Total TCDFS (mg/kg)
MW-11D-12-14	'12-14	12/14/2006	0.000163	0.0000144	0.0000685	0.0000625	0.0000263	0.000138	0.0000230	0.000258	0.000258
MW-14D-13-15	'13-15	11/14/2006	0.000261	0.00000374	0.0000562	0.00000402	0.00000443	0.00000226	0.000000623	0.00000220	0.00000220
MW-16D-17-19	'17-19	11/20/2006	0.00000297	0.000000140	0.00000448	0.0000000346	0.00000373	0.0000000519	0.00000176	0.000000279	0.000000279
MW-18D-13-15	'13-15	11/13/2006	0.000372	0.000000108	0.0000233	0.000000458 U	0.00000129	0.0000000257	0.000000904	0.000000873	0.000000873
MW-6D-16-18	'16-18	11/20/2006	0.000166	0.0000159	0.0000385	0.0000423	0.00000573	0.0000437	0.00000256	0.0000167	0.0000167
SC-3	'0-1	8/22/2001	0.0000955	0.000118	0.0000305	0.0000285	0.0000121	0.0000240	0.00000721	0.0000285	0.0000285

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS					34000	820	59000	59000	12	
12K-B1-0.5-2	'0.5-2	9/6/2001				0.0850 U	0.0850 U	0.0850 U	0.0850 U	
12K-B1-0-0.5	'0-0.5	9/6/2001				0.0790 U	0.0790 U	0.0790 U	0.0790 U	
12K-B2-0.5-2	'0.5-2	9/6/2001				0.0790 U	0.0790 U	0.0790 U	0.0790 U	
12K-B2-0-0.5	'0-0.5	9/6/2001				0.0810 U	0.0810 U	0.0810 U	0.0810 U	
150K-1-0.5-2	'0.5-2	9/10/2001	0.5900 JN			0.0664 J	0.0770 U	0.0770 U	0.0770 U	
150K-1-0-0.5	'0-0.5	9/10/2001				0.3200 J	0.4000 U	0.4000 U	0.4000 U	
230-B1-0.5	'0-0.5	10/2/2001				0.0324 J	0.0790 U	0.0790 U	0.0790 U	
230-B10-0-0.5	'0-0.5	8/30/2001				0.3370	0.0990 U	0.0313 J	0.0650 J	
230-B10-1.5-2	'1.5-2	8/30/2001				0.8700	0.0860 U	0.0860 U	0.0860 U	
230-B11-0-0.5	'0-0.5	8/30/2001				0.0714 J	0.0720 U	0.0720 U	0.0720 U	
230-B11-1.5-2	'1.5-2	8/30/2001				0.0405 J	0.0208 J	0.0720 U	0.0720 U	
230-B1-4-6	'4-6	10/2/2001				0.2430 J	1.4400	0.3900 U	0.3800 J	
230-B2-0-0.5	'0-0.5	8/30/2001				0.0513 J	0.0274 J	0.0800 U	0.0800 U	
230-B2-1.5-2	'1.5-2	8/30/2001				0.0720 U	0.0720 U	0.0720 U	0.0665 J	
230-B3-0-0.5	'0-0.5	8/30/2001				0.0760 U	0.0760 U	0.0760 U	0.0760 U	
230-B3-1.5-2	'1.5-2	8/30/2001				0.436	0.151	0.342	0.230	
230-B4-0-0.5	'0-0.5	8/30/2001				0.0463 J	0.0800 U	0.0800 U	0.0800 U	
230-B4-1.5-2	'1.5-2	8/30/2001				0.0268 J	0.0760 U	0.0760 U	0.0760 U	
230-B5-0-0.5	'0-0.5	9/13/2001				0.0950	0.0800 U	0.0800 U	0.0800 U	
230-B5-1.5-2	'1.5-2	9/13/2001				3.09	0.0527 J	0.816	0.341	
230-B6 0-0.5	'0-0.5	8/22/2001				0.0760 U	0.0760 U	0.0760 U	0.0760 U	
230-B6 1.5-2	'1.5-2	8/22/2001	1.90 JN			0.0473 J	0.0760 U	0.0760 U	0.0760 U	
230-B7 0-0.5	'0-0.5	8/22/2001				0.0810 U	0.0810 U	0.0810 U	0.0810 U	
230-B7 1.5-2	'1.5-2	8/22/2001	0.180 JN			0.0695 J	0.0473 J	0.0820 U	0.0820 U	
230-B8 1.5-2	'1.5-2	8/22/2001				0.0812 J	0.0830 U	0.0830 U	0.0830 U	
230-B9 0-0.5	'0-0.5	8/22/2001				0.0710 U	0.0710 U	0.0710 U	0.0710 U	
230-B9 0-0.5	'0-0.5	8/22/2001				0.0770 U	0.0770 U	0.0770 U	0.0770 U	
230-B9 1.5-2	'1.5-2	8/22/2001				0.0750 U	0.0750 U	0.0750 U	0.0750 U	
231-B1-0-0.5	'0-0.5	10/5/2001	1.10 JN			0.0750 U	0.0750 U	0.0750 U	0.0750 U	
231-B10-0-0.5	'0-0.5	9/17/2001				0.0830 U	0.0830 U	0.0830 U	0.0830 U	
231-B11-0-0.5	'0-0.5	9/19/2001				0.258	0.433	0.0940 U	0.0940 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001				0.0489 J	0.0329 J	0.0850 U	0.0850 U	
231-B12-0-0.5	'0-0.5	9/17/2001				0.0750 U	0.0750 U	0.0750 U	0.0750 U	
231-B13-0-0.5	'0-0.5	9/19/2001				0.178 J	0.390 U	0.390 U	0.390 U	
231-B13-8-10	'9-10	9/27/2001				0.172	0.0823	0.0770 U	0.0279 J	
231-B14-0-0.5	'0-0.5	9/19/2001				0.0820 U	0.0820 U	0.0820 U	0.0820 U	
231-B2-0.5-2	'0.5-2	8/22/2001				0.424	0.0785	0.0740 U	0.0740 U	
231-B2-0-0.5	'0-0.5	8/22/2001	1.20 JN	4.40 JN		0.136	0.0740 U	0.0740 U	0.0740 U	
231-B3-0-0.5	'0-0.5	8/22/2001				0.0310 J	0.0234 J	0.0770 U	0.0770 U	
231-B4-0-0.5	'0-0.5	8/30/2001				0.0590 J	0.0226 J	0.0770 U	0.0708 J	
231-B4-6-8	'6-8	9/27/2001				0.208	0.500	0.274	1.05	
231-B5-0.5-2	'0.5-2	9/19/2001				0.0476 J	0.0840 U	0.0840 U	0.0840 U	
231-B6-0-0.5	'0-0.5	9/27/2001	9.20 JN			0.249	0.0572 J	0.0910 U	0.0245 J	
231-B6-4-6	'4-6	9/27/2001				0.0249 J	0.0750 U	0.0750 U	0.0750 U	
231-B7-0-0.5	'0-0.5	9/13/2001				0.410 U	0.410 U	0.410 U	0.410 U	
231-B8-0-0.5	'0-0.5	9/27/2001				1.17 J	0.140 J	0.160 UJ	0.0486 J	
231-B8-8-10	'8-10	9/27/2001				4,640 J	775. J	63.0	158.	
231-B9-0.5-2	'0.5-2	9/27/2001				0.138	0.0645 J	0.0940 U	0.0512 J	
231-B9-0-0.5	'0-0.5	9/27/2001				0.470 U	0.470 U	0.470 U	0.470 U	
240-1-0-0.5	'0-0.5	9/26/2001	0.250 JN	0.160 JN		0.142	0.0810 U	0.0810 U	0.0810 U	
240-1-8-10	'8-10	10/1/2001				0.0810 U	0.0810 U	0.0810 U	0.0810 U	
5K-B1-0-0.5	'0-0.5	10/1/2001				0.410 U	0.410 U	0.410 U	0.410 U	
5K-B2-0-0.5	'0-0.5	8/31/2001				0.0710 U	0.0710 U	0.0710 U	0.0710 U	
5K-B2-8-10	'8-10	8/31/2001				0.122	0.0820 U	0.0820 U	0.0820 U	
5K-B3-0-0.5	'0-0.5	9/26/2001	2.10 JN	0.360 JN		0.0684 J	0.0800 U	0.0800 U	0.0800 U	
5K-B4-0-0.5	'0-0.5	10/1/2001				0.460 U	0.460 U	0.460 U	0.460 U	
5K-B4-4-6	'4-6	10/1/2001				6.58	19.4	5.46	16.3	
5K-B5-0-0.5	'0-0.5	8/31/2001				0.849	0.522	0.193	0.0855	
5K-B5-4-6	'4-6	9/26/2001	3.80 JN	2.30 JN		0.192	0.511	0.370	0.448	
AB-1-0-0.5	'0-0.5	9/4/2001				0.146	0.0402 J	0.0780 U	0.0780 U	
AB-2-0.5-2	'0.5-2	9/4/2001				0.543	0.486	0.0739 J	0.0709 J	
AB-2-0-0.5	'0-0.5	9/4/2001	0.340 JN			0.116	0.0310 J	0.0810 U	0.0810 U	
ADN-1-0-0.5	'0-0.5	9/5/2001				0.0760 U	0.0530 J	0.0760 U	0.0760 U	0.160 JN

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001				2.93	26.4	1.93	3.44	
ADN-2-0-0.5	'0-0.5	9/5/2001				0.0820 U	0.0810 J	0.0820 U	0.0820 U	
ADN-2-10-11	'10-11	9/27/2001				0.0800 U	0.250	0.0800 U	0.0226 J	
ADS-1-0-.5	'0-0.5	7/17/2001				0.370 U	0.370 U	0.370 U	0.370 U	
ADS-10-0-0.5	'0-2	7/18/2001				0.0770 U	0.0770 U	0.0770 U	0.0770 U	
ADS-101-0-1	'0-1	12/5/2006			0.0301 J					
ADS-101-1-3	'1-3	12/5/2006			0.0180 U					
ADS-102-0-1.5	'0-2	12/5/2006			0.0180 U					
ADS-102-7-8	'4-8	12/5/2006			0.0190 U					
ADS-10-4-6	'4-6	7/18/2001				0.0950 U	0.285	0.0950 U	0.0588 J	
ADS-11-0-0.5	'0-2	7/18/2001				0.0760 U	0.0760 U	0.0760 U	0.0760 U	
ADS-12-0.5-2	'0.5-2	7/18/2001				0.0870 U	0.0870 U	0.0870 U	0.0870 U	
ADS-12-0-0.5	'0-0.5	7/18/2001		0.300 JN		0.0850 U	0.0850 U	0.0850 U	0.0850 U	
ADS-2-0-0.5	'0-0.5	7/18/2001				0.0800 U	0.0800 U	0.0800 U	0.0800 U	
ADS-2-4-6	'4-6	7/18/2001				0.0810 U	0.0810 U	0.0810 U	0.0810 U	
ADS-3-0-0.5	'0-0.5	7/18/2001		0.430 JN		0.178	0.0626 J	0.0780 U	0.0780 U	
ADS-4-0-0.5	'0-2	7/18/2001	2.00 JN			0.154	0.0936	0.0817	0.0662 J	
ADS-4-12-14	'12-14	7/18/2001	9.70 JN			2.77	3.06	1.14	0.452	
ADS-5-0-0.5	'0-0.5	7/18/2001				0.360 U	0.360 U	0.360 U	0.360 U	
ADS-5-4-6	'4-6	9/27/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
ADS-6-0.5-2	'0.5-2	7/18/2001	1.70 JN			0.704	0.429	0.113	0.0972	0.180 JN
ADS-6-0-0.5	'0-0.5	7/18/2001	3.60 JN			0.380 U	0.391	0.380 U	0.380 U	
ADS-7-0-.5	'0-0.5	7/17/2001				0.360 U	0.360 U	0.360 U	0.360 U	
ADS-8-0-0.5	'0-0.5	7/18/2001				0.0820 U	0.0820 U	0.0820 U	0.0820 U	
ADS-8-4-6	'4-6	7/18/2001				0.0830 U	0.0830 U	0.0830 U	0.0830 U	
ADS-9-0-0.5	'0-0.5	7/18/2001				0.0860 U	0.0860 U	0.0860 U	0.0860 U	
BLIND DUP	'0-0	8/21/2001				0.0710 U	0.0710 U	0.0710 U	0.0710 U	
BSL-10-0-1	'0-1	9/21/2001				0.0990 U	0.159	0.0990 U	0.0990 U	
BSL-1-0-1	'0-1	9/20/2001				0.0790 U	0.0790 U	0.0790 U	0.0790 U	
BSL-11-0-1	'0-1	9/26/2001				0.0960 U	0.162	0.246	0.342	
BSL-12-0-1	'0-1	9/26/2001				0.0760 U	0.102	0.0760 U	0.0760 U	
BSL-1-4-6	'4-6	9/20/2001				0.0980 U	0.0980 U	0.0980 U	0.0980 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001				0.100 U	0.100 U	0.100 U	0.100 U	
BSL-3-0-0.5	'0-0.5	9/20/2001				0.0710 U	0.0710 U	0.0710 U	0.0710 U	
BSL-4-0-1	'0-0.5	9/21/2001				0.0860 U	0.0860 U	0.0860 U	0.0860 U	
BSL-4-4-6	'4-6	9/21/2001				0.140 U	0.140 U	0.140 U	0.140 U	
BSL-5-0-.5	'0-0.5	9/21/2001				0.0820 U	0.0820 U	0.0820 U	0.0820 U	
BSL-6-0-1	'0-1	9/26/2001				0.110 U	0.110 U	0.110 U	0.110 U	
BSL-6-1-2	'1-2	9/26/2001				0.130 U	0.130 U	0.130 U	0.130 U	
BSL-7-0-.5	'0-0.5	9/21/2001				0.0980 U	0.0980 U	0.0980 U	0.0980 U	
BSL-8-0-1	'0-1	9/26/2001				0.120 U	0.120 U	0.120 U	0.120 U	
BSL-9-.5-2	'0.5-2	9/21/2001				0.110 U	0.110 U	0.110 U	0.110 U	
BSL-9-0-.5	'0-0.5	9/21/2001				0.0840 U	0.0840 U	0.0840 U	0.0840 U	
BT-B1-0-0.5	'0-0.5	9/18/2001				0.0494 J	0.0810 U	0.0810 U	0.0810 U	
BT-B2-0.5-2	'0.5-2	9/18/2001				0.0790 U	0.0790 U	0.0790 U	0.0790 U	
BT-B2-0-0.5	'0-0.5	9/18/2001				0.386	0.568	0.0860 U	0.150	
BT-B3-0-0.5	'0-0.5	9/18/2001				0.359 J	0.390 U	0.390 U	0.390 U	
BT-B4-0.5-2	'0.5-2	8/30/2001				0.0448 J	0.0210 J	0.0770 U	0.0770 U	
BT-B4-0-0.5	'0-0.5	8/30/2001				0.340 U	0.340 U	0.340 U	0.340 U	
BT-B5-0-.5	'0-0.5	10/2/2001		0.230 JN		0.0458 J	0.0810 U	0.0810 U	0.0810 U	
BT-B6-0.5-2	'0.5-2	9/17/2001				0.0690 J	0.0880 U	0.0880 U	0.0880 U	
BT-B6-0-0.5	'0-0.5	9/17/2001				0.340 U	0.340 U	0.340 U	0.340 U	
CF-1-0-0.5	'0-0.5	8/31/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
CF-1-2-4	'2-4	8/31/2001				0.0740 U	0.0740 UJ	0.0740 U	0.0740 U	
CF-2-0-0.5	'0-0.5	8/28/2001				0.129	0.0820 U	0.0820 U	0.0820 U	
CF-3-0.5-2	'0.5-2	8/28/2001				0.112 J	0.130 U	0.130 U	0.130 U	
CF-3-0-0.5	'0-0.5	8/28/2001				0.102	0.0990 U	0.0990 U	0.0990 U	
CF-4-0-0.5	'0-0.5	8/28/2001				0.0562 J	0.0870 U	0.0870 U	0.0870 U	
CF-5-0-0.5	'0-0.5	8/28/2001				0.0700 U	0.0700 U	0.0700 U	0.0700 U	
CF-5-4-6	'4-6	8/28/2001				0.0750 U	0.0750 U	0.0750 U	0.0750 U	
CF-6-0-0.5	'0-0.5	8/28/2001				0.0770 U	0.0770 U	0.0770 U	0.0770 U	
CF-7-0-0.5	'0-0.5	8/28/2001				0.0396 J	0.0750 U	0.0750 U	0.0750 U	
CF-7-4-6	'4-6	8/28/2001				0.116	0.0453 J	0.0700 U	0.0700 U	
CF-8-0-0.5	'0-0.5	8/28/2001				0.0770 U	0.0770 U	0.0770 U	0.0770 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001				0.0720 U	0.0720 U	0.0720 U	0.0720 U	
CF-9-0-0.5	'0-0.5	8/31/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
DC-B12-0-0.5	'0-0.5	10/3/2001	4.90 JN			1.29	0.853	3.27	3.36	
DC-B12-2-4	'2-4	10/3/2001				0.273	0.0638 J	0.0730 U	0.0730 U	
DC-SS1-0-0.5	'0-0.5	9/18/2001				0.0730 U	0.0730 U	0.0730 U	0.0730 U	
DC-SS11-0-0.5	'0-0.5	9/17/2001	5.20 JN		3.20 JN	0.698	2.13	2.24	4.17	
DC-SS13-0-0.5	'0-0.5	9/17/2001				0.350 U	0.350 U	0.350 U	0.350 U	
DC-SS15-0-0.5	'0-0.5	9/17/2001				0.410 U	0.410 U	0.410 U	0.410 U	
DC-SS17-0-0.5	'0-0.5	9/17/2001				0.0513 J	0.0850 U	0.0850 U	0.0850 U	
DC-SS2-0-0.5	'0-0.5	9/17/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
DC-SS3-0-0.5	'0-0.5	9/17/2001				0.0880 U	0.0880 U	0.0880 U	0.0880 U	
DC-SS6-0-0.5	'0-0.5	9/17/2001				0.0314 J	0.0750 U	0.0750 U	0.0750 U	
DC-SS7-0-0.5	'0-0.5	9/17/2001				0.0493 J	0.0760 U	0.0760 U	0.0760 U	
DC-SS9-0-0.5	'0-0.5	9/17/2001				0.147	0.0461 J	0.120	0.0752 J	
DSP-1-0-0.5	'0-0.5	10/3/2001				0.0820 U	0.0820 U	0.0820 U	0.0820 U	
DSP-1-4-6	'4-6	11/19/2001				0.0820 U	0.0820 U	0.0820 U	0.0820 U	
DSP-2-0-0.5	'0-0.5	9/4/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
DSP-3-0-0.5	'0-0.5	9/4/2001				0.380 U	0.380 U	0.380 U	0.380 U	
DSP-3-2-4	'2-4	9/4/2001				0.0830 U	0.0830 U	0.0830 U	0.0830 U	
DSP-4-0-0.5	'0-0.5	9/4/2001				0.0850 U	0.0850 U	0.0850 U	0.0850 U	
DSP-4-4-6	'4-6	9/26/2001				0.0357 J	0.0831 J	0.0860 U	0.0860 U	
DUP-01-010824	'0-0.5	8/24/2001				0.0770 U	0.0770 U	0.0770 U	0.0770 U	
DUP-01-010831	'2-4	8/31/2001				0.0652 J	0.0750 U	0.0750 U	0.0750 U	
DUP-01-010904	'0-0.5	9/4/2001				0.370 U	0.370 U	0.370 U	0.370 U	
DUP-01-010905	'8-10	9/5/2001				7.55	17.9	1.20	2.18	
DUP-01-010906	'0-8	9/6/2001				0.310 U	0.310 U	0.310 U	0.310 U	
DUP-01-010913	'0-0.5	9/13/2001				0.380 U	0.380 U	0.380 U	0.380 U	
DUP-01-010917	'0-0.5	9/17/2001				0.143	0.0368 J	0.0751 J	0.0547 J	
DUP-01-010926	'1-2	9/26/2001	3.90 JN			0.130 U	0.130 U	0.130 U	0.130 U	
DUP-01-010927	'4-6	9/27/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
DUP-01-021001	'0-0	10/2/2001				0.0508 J	0.0750 U	0.0750 U	0.0750 U	
DUP-01-08 2201	'1.5-2	8/22/2001				0.0541 J	0.0800 U	0.0800 U	0.0800 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001				0.0770 U	0.0770 U	0.0770 U	0.0770 U	
DUP-01-170402	'0-0	4/17/2002				0.100 J	0.180 U	0.180 U	0.180 U	
DUP-02-010913	'0-0.5	9/13/2001				0.430 U	0.430 U	0.430 U	0.430 U	
DUP-02-010921	'0-1	9/21/2001				0.0760 J	0.604	0.0910 U	0.0260 J	
DUP-02-010926	'4-6	9/26/2001				0.187	0.499	0.509	0.485	
DUP060807	'0-0	6/8/2007			0.0170 U					
DUP-1-010828	'0-0.5	8/28/2001				0.0770 U	0.0770 U	0.0770 U	0.0770 U	
DUP-1-010921	'0-0.5	9/21/2001				0.100 U	0.100 U	0.100 U	0.100 U	
DUP110606	'15-17	11/6/2006			0.0200 U					
DUP112006	'16-18	11/20/2006			0.0320 U					
DUP112106	'10-12	11/21/2006			0.0330 U					
DUP-120506	'0-4	12/5/2006			0.0490 U					
DUP-120606	'0-4	12/6/2006			0.0170 U					
DUPE071801	'0-0.5	7/18/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
EC-1	'0-1	8/21/2001				0.0760 U	0.0760 U	0.0760 U	0.0760 U	
EC-2	'0-1	8/21/2001				0.0750 U	0.0750 U	0.0750 U	0.0750 U	
EC-3	'0-1	8/21/2001				0.0710 U	0.0710 U	0.0710 U	0.0710 U	
EC-4	'0-1	8/21/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
EC-5	'0-1	8/21/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
EC-6	'0-1	8/21/2001				0.0820 U	0.0820 U	0.0820 U	0.0820 U	
EC-7	'0-1	8/21/2001				0.0800 U	0.0800 U	0.0800 U	0.0800 U	
EC-8	'0-1	8/21/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
EC-9	'0-1	8/21/2001				0.0870 U	0.0870 U	0.0870 U	0.0870 U	
ESR-1-0-1	'0-0.5	9/4/2001				0.0710 U	0.0710 U	0.0710 U	0.0710 U	
ESR-1-4-6	'4-6	9/4/2001				0.0830 U	0.0263 J	0.0830 U	0.0830 U	
HB-101A	'17-17	3/5/2007			0.0192 J					
HB-102A	'0-0	3/13/2007			0.0290 U					
HB-102B	'0-0	3/14/2007			0.0366 J				0.240 JN	
HB-102C	'0-0	3/14/2007			0.0180 U					
H-B-103A	'17-17	2/20/2007			0.104 J					
H-B-104A	'17-17	2/23/2007			0.0200 U					
H-B-104B	'17-17	2/23/2007			0.0190 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007			2.05					
H-B-104D	'17-17	2/27/2007			0.0190 U					
H-B-104E	'17-17	2/27/2007			0.0190 U					
H-B-105C	'17-17	2/8/2007			0.0180 U					
H-B-105D	'17-17	2/8/2007			0.0200 U					
H-B-105E	'0-0	2/8/2007			0.0200 U					
HB-1A	'6.75-6.75	4/18/2002	29.0 JN			0.120 U	0.120 U	0.120 U	0.120 U	
HB-3A	'5.25-5.25	4/17/2002				0.133 J	0.210 U	0.210 U	0.210 U	
HB-3B	'4.5-4.5	4/17/2002				0.0780 U	0.0780 U	0.0780 U	0.0780 U	
HB-3C	'4.5-4.5	4/18/2002				0.0770 U	0.0770 U	0.0770 U	0.0770 U	
HB-3D	'4.5-4.5	4/18/2002				0.0800 U	0.0800 U	0.0800 U	0.0800 U	
HB-4A	'5.33-5.33	4/19/2002				0.0780 U	0.0780 U	0.0780 U	0.0780 U	
HB-5A	'3-3	4/22/2002				0.140	0.0830 U	0.0830 U	0.0830 U	
HB-7A	'5-5	4/19/2002				0.169	0.0830 U	0.0830 U	0.0830 U	
HB-8A	'3-3	4/23/2002	0.410 JN			0.125	0.163	0.0380 J	0.0282 J	
HB-8B	'4.83-4.83	4/23/2002				0.0576 J	0.0790 U	0.0790 U	0.0790 U	
HB-8C	'5.5-5.5	4/23/2002				4.05	5.43	0.515	0.745	
HB-9A	'4.75-4.75	4/24/2002				1.46	0.0877	0.165	0.183	
HF-B1-0-0.5	'0-0.5	9/10/2001				0.0267 J	0.0800 U	0.0800 U	0.0800 U	
HF-B1-8-10	'8-10	9/10/2001				0.0930 U	0.0930 U	0.0930 U	0.0930 U	
HF-B2-0-0.5	'0-0.5	9/4/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
HF-B2-4-6	'4-6	9/4/2001				0.0188 J	0.0740 U	0.0740 U	0.0740 U	
HF-B3-0-.5	'0-0.5	10/2/2001		4.70 JN		0.0785	0.0506 J	0.0740 U	0.0740 U	
HF-B3-8-10	'8-10	10/2/2001				0.0760 U	0.0760 U	0.0760 U	0.0760 U	
IB-1-0-2	'0-2	4/8/2002	0.590 JN			0.0807	0.0780 U	0.0780 U	0.0780 U	
IB-1-4-6	'4-6	4/8/2002	0.420 JN			0.0860	0.0780 U	0.0780 U	0.0780 U	
IB-2-12-14	'12-14	4/8/2002			0.280 JN	0.0516 J	0.0840 U	0.0840 U	0.0840 U	
IB-2-4-6	'4-6	4/8/2002	0.580 JN			0.0539 J	0.0780 U	0.0780 U	0.0780 U	
IB-3-4-6	'4-6	4/8/2002				1.79	0.140	0.147	0.278	
IB-3-8-10	'8-10	4/8/2002				4.22	1.11	0.355	0.625	
LB-101-0-1	'0-1	12/6/2006			0.0170 U					
LB-101-1-3	'1-3	12/6/2006			0.0160 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006			0.0180 U					
LB-102-1-3	'3-7	12/6/2006			0.0180 U					
LB-103-0-1	'0-1	12/6/2006			0.0170 U					
LB-103-5-7	'5-7	12/6/2006			0.0200 U					
LHP-101-0-1	'0-1	12/4/2006			0.0880 U					
LHP-101-5-8	'4-8	12/4/2006			0.0630 U					
LHP-102-0-1	'0-1	12/5/2006			0.0180 U					
LHP-102-7-9	'7-9	12/5/2006			0.0417 J					
LHP-103-0-1	'0-1	12/5/2006			0.0900 U					
LHP-103-1-3	'1-3	12/5/2006			0.0200 U					
LHP-104-0-1	'0-1	12/5/2006			0.0170 U					
LHP-104-7-9	'4-8	12/5/2006			0.0190 U					
LHP-105-0-1	'0-1	12/5/2006			0.0840 U					
LHP-105-1-3	'1-3	12/5/2006			0.0170 U					
LHP-106-0-1	'0-1	12/4/2006			0.0830 U					
LHP-106-1-3	'1-3	12/4/2006			0.100 U					
LHP-107-0-1	'0-1	12/5/2006			0.0170 U					
LHP-107-5-7	'4-8	12/5/2006			0.0180 U					
LHP-108-0-1	'0-1	12/6/2006			0.0180 U					
LHP-108-3-7	'3-7	12/6/2006			0.0190 U					
LHP-109-0-1	'0-1	12/6/2006			0.0180 U					
LHP-109-7-9	'7-9	12/6/2006			0.0231 J					
LHP-110-0-1	'0-1	12/4/2006			0.180 U					
LHP-111-0-1	'0-1	12/4/2006			0.0180 U					
LHP-112-0-1	'0-1	12/4/2006			0.0180 U					
LHP-113-0-1	'0-1	12/4/2006			0.0170 U					
LHP-114-0-1	'0-1	12/4/2006			0.0180 U					
LHP-115-0-1	'0-1	12/4/2006			0.0170 U					
LHP-116-0-1	'0-1	12/4/2006			0.0180 U					
LHP-117-0-1	'0-1	12/4/2006			0.0190 U					
LHP-118-0-1	'0-1	12/4/2006			0.0950 U					
LHP-119-0-1	'0-1	12/4/2006			0.0190 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006			0.0210 U					
LHP-121-0-1	'0-1	12/6/2006			0.0180 U					
LHP-122-0-1	'0-1	12/6/2006			0.0170 U					
LHP-123-0-1	'0-1	12/4/2006			0.0180 U					
LHP-124-.5-2	'0.5-2	10/27/2006			0.0190 U					
LHP-124-10-12	'10-12	10/31/2006			0.0300 U					
LHP-124-2-4	'2-4	10/27/2006			0.0190 U					
LHP-124-28-30	'28-30	10/31/2006			0.0220 U					
LHP-125-.5-2	'0.5-2	10/27/2006			0.0180 U					
LHP-125-10.5-12	'10.5-12	11/1/2006			0.0210 U					
LHP-125-12-14	'12-14	11/1/2006			0.0190 U					
LHP-125-4-6	'4-6	10/27/2006			0.0180 U					
LHP-126-10.5-12	'10.5-12	11/1/2006			0.0770 UJ					
LHP-126-14-16	'14-16	11/1/2006			0.0190 U					
LHP-126-2-4	'2-4	10/26/2006			0.0180 U					
LHP-126-8-10	'9-10	10/26/2006			0.0200 U					
LHP-127-0-1	'0-1	12/6/2006			0.0170 U					
LHP-127-3-5	'3-5	12/6/2006			0.0170 U					
LHP-128-0-1	'0-4	12/6/2006			0.0170 U					
LHP-128-7-8	'17-17	12/6/2006			0.0288 J					
LP-1-0-0.5	'0-0.5	8/27/2001				0.0750 U	0.0750 U	0.0750 U	0.0750 U	
LP-10-0.5-2	'0.5-2	8/27/2001				0.0840 U	0.0840 U	0.0840 U	0.0840 U	
LP-10-0-0.5	'0-0.5	8/27/2001				0.0502 J	0.0760 U	0.0760 U	0.0760 U	
LP-101-11-13	'11-13	11/2/2006			0.0300 U					
LP-101-14-16	'14-16	11/2/2006			0.0260 U					
LP-101-26-28	'26-28	11/2/2006			0.0190 U					
LP-101-50-52	'50-52	11/2/2006			0.0180 U					
LP-11-0-0.5	'0-0.5	8/27/2001				0.0840 U	0.0840 U	0.0840 U	0.0840 U	
LP-12-0-0.5	'0-0.5	8/27/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
LP-12-4-6	'4-6	8/27/2001				0.0730 U	0.0730 U	0.0730 U	0.0730 U	
LP-13-0-0.5	'0-0.5	8/24/2001				0.0284 J	0.0233 J	0.0840 U	0.0840 U	
LP-14-0.5-2	'0.5-2	8/24/2001				0.0607 J	0.0378 J	0.0710 U	0.0710 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001				0.370 U	0.370 U	0.370 U	0.370 U	
LP-15-0-0.5	'0-0.5	8/24/2001				0.0760 U	0.0760 U	0.0760 U	0.0760 U	
LP-16-0.5-2	'0.5-2	8/27/2001				0.360 U	0.360 U	0.360 U	0.360 U	
LP-16-0-0.5	'0-0.5	8/27/2001				0.0770 U	0.0770 U	0.0770 U	0.0770 U	
LP-2-0.5-2	'0.5-2	8/28/2001				2.36	0.540	0.123	0.203	
LP-2-0-0.5	'0-0.5	8/28/2001				0.144	0.0394 J	0.0750 U	0.0750 U	
LP-3-0-0.5	'0-0.5	8/27/2001				0.0710 U	0.0710 U	0.0710 U	0.0710 U	
LP-4 .5-2	'0.5-2	8/21/2001				0.514	0.116	0.0388 J	0.0462 J	
LP-4 0-.5	'0-0.5	8/21/2001				0.0800 U	0.0800 U	0.0800 U	0.0800 U	
LP-5-0-0.5	'0-0.5	8/27/2001				0.0819	0.0750 U	0.0750 U	0.0750 U	
LP-6-0-0.5	'0-0.5	8/27/2001				0.0645 J	0.0730 U	0.0730 U	0.0730 U	
LP-6-4-6	'4-6	8/27/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
LP-7-0-0.5	'0-0.5	8/24/2001				0.386	0.0768 J	0.0780 U	0.0780 U	
LP-8-0-0.5	'0-0.5	8/24/2001				0.0810 U	0.0810 U	0.0810 U	0.0810 U	
LP-8-10-12	'10-12	8/24/2001				0.110 U	0.110 U	0.110 U	0.110 U	
LP-9-0-0.5	'0-0.5	8/24/2001				0.370 U	0.370 U	0.370 U	0.370 U	
MW-11D-12-14	'12-14	12/14/2006			0.240					
MW-11D-14-16	'14-16	12/14/2006			0.0288 J					
MW-11D-16-18	'16-18	12/14/2006			0.0190 U					
MW-14D-13-15	'13-15	11/14/2006			0.0210 U					
MW-14D-17-19	'17-19	11/14/2006			0.0190 U					
MW-16D-13-15	'13-15	11/17/2006			0.0180 UJ					
MW-16D-17-19	'17-19	11/20/2006			0.0190 U					
MW-17D-15-17	'15-17	11/10/2006			0.0343 J					
MW-17D-17-19	'17-19	11/10/2006			0.0190 U					
MW-18D-13-15	'13-15	11/13/2006			0.0200 U					
MW-18D-17-19	'17-19	11/13/2006			0.0180 U					
MW-20D-12-14	'12-14	11/9/2006			0.0200 U					
MW-20D-32-34	'32-32.9	11/10/2006			0.0180 U					
MW-20D-36-38	'36-38	11/10/2006			0.0190 U					
MW-21D-13-15	'13-13.7	11/16/2006			0.0200 U					
MW-21D-15-17	'15-17	11/16/2006			0.0190 UJ					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006			0.0200 U					
MW-23D-37-39	'37-37.9	11/15/2006			0.0180 U					
MW-25D-10-12	'10-12	11/21/2006			0.0340 U					
MW-25D-33-35	'33-35	12/18/2006			0.0200 U					
MW-26S-8-10	'8-10	10/26/2006			0.425					
MW-6D-0-2	'0-2	11/8/2006			0.0180 U					
MW-6D-12-14	'12-14	11/8/2006			0.0420 U					
MW-6D-16-18	'16-18	11/20/2006			0.0300 U					
MW-6D-30-32	'30-32	11/21/2006			0.0190 U					
PCA-1-0-.5	'0-2	7/17/2001				0.360 U	0.360 U	0.360 U	0.360 U	
PCA-1-4-6	'4-6	7/17/2001				0.0800 U	0.0800 U	0.0800 U	0.0800 U	
PCA-2-0-.5	'0-0.5	7/17/2001				0.0730 U	0.0730 U	0.0730 U	0.0730 U	
PCA-3-0-0.5	'0-0.5	9/13/2001				0.160 U	0.160 U	0.160 U	0.160 U	
PCA-3-4-6	'4-6	9/13/2001				0.0850 U	0.0850 U	0.0850 U	0.0850 U	
PCA-4-0-0.5	'0-0.5	9/13/2001				0.380 U	0.380 U	0.380 U	0.380 U	
PCA-4-4-6	'4-6	9/26/2001				0.0830 U	0.0830 U	0.0830 U	0.0830 U	
PCA-5-0.5-2	'0.5-2	9/7/2001				0.0780 U	0.0780 U	0.0780 U	0.0780 U	
PCA-5-0-0.5	'0-0.5	9/7/2001				0.0571 J	0.0237 J	0.0850 U	0.0850 U	
PCA-6-0-0.5	'0-0.5	9/7/2001				0.0410 J	0.0863	0.0710 U	0.0710 U	
RR-1 0-0.5	'0-0.5	8/22/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
RR-1 14-16	'14-16	8/22/2001				13.4	26.8	0.698	2.69	
RR-10 0-.5	'0-0.5	10/12/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
RR-11 0-.5	'0-0.5	10/12/2001				0.0800 U	0.0800 U	0.0800 U	0.0800 U	
RR-12 0-.5	'0-0.5	10/12/2001				0.0780 U	0.0780 U	0.0780 U	0.0780 U	
RR-2-0-0.5	'0-0.5	9/13/2001				0.420 U	0.420 U	0.420 U	0.420 U	
RR-2-8-10	'8-10	9/13/2001				0.0990 U	0.0990 U	0.0990 U	0.0990 U	
RR-3-0-0.5	'0-0.5	9/13/2001				0.0720 U	0.0720 U	0.0720 U	0.0720 U	
RR-4-0-0.5	'0-0.5	9/10/2001				0.0800 U	0.0800 U	0.0800 U	0.0800 U	
RR-4-6-8	'6-8	9/13/2001				0.0770 U	0.0770 U	0.0770 U	0.0770 U	
RR-5-0-0.5	'0-0.5	9/10/2001				0.0690 U	0.0690 U	0.0690 U	0.0690 U	
RR-6-0-0.5	'0-0.5	9/10/2001	0.330 JN			0.0365 J	0.0720 U	0.0720 U	0.0720 U	
RR-6-8-10	'8-10	9/10/2001				0.0760 U	0.0309 J	0.0760 U	0.0406 J	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001				0.0305 J	0.0760 U	0.0760 U	0.0760 U	
RR-8-0-0.5	'0-0.5	9/26/2001				0.0860 U	0.0860 U	0.0860 U	0.0860 U	
RR-8-6-8	'6-8	9/26/2001				0.140 U	6.71	0.0927 J	0.427	
RR-9 0-.5	'0-0.5	10/12/2001				0.0730 U	0.0730 U	0.0730 U	0.0730 U	
SC-1	'0-1	8/21/2001				0.0900 U	0.0355 J	0.0900 U	0.0900 U	
SC-2	'0-1	8/22/2001				0.0700 U	0.0700 U	0.0700 U	0.0700 U	
SC-3	'0-1	8/22/2001				0.0780 U	0.0780 U	0.0780 U	0.0780 U	
SILO-B1-0-0.5	'0-0.5	9/6/2001				0.548	0.0770	0.0744 J	0.0770 U	
SILO-B1-6-8	'6-8	9/6/2001				0.300 U	1.44	0.300 U	0.300 U	
SILO-B2-0-0.5	'0-0.5	9/6/2001				0.360 U	0.360 U	0.360 U	0.360 U	
SILO-B3-0-0.5	'0-0.5	9/6/2001				0.284 J	0.410 U	0.410 U	0.410 U	
SILO-B3-6-8	'6-8	9/6/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
SILO-B4-0-0.5	'0-0.5	9/6/2001				0.420 U	0.420 U	0.420 U	0.420 U	
SPR-1-0-0.5	'0-0.5	9/5/2001	3.60 JN			0.380 U	0.380 U	0.380 U	0.380 U	
SPR-1-8-10	'8-10	9/5/2001				0.0308 J	0.0765 J	0.100 U	0.100 U	
SPR-2A-0-0.5	'0-0.5	7/19/2001				0.0787	0.0889	0.0750 U	0.0750 U	
SPR-2A-8-10	'8-10	7/19/2001				0.0880 U	0.0682 J	0.0880 U	0.0880 U	
SPR-2B-0-0.5	'0-0.5	7/19/2001				0.0720 U	0.0720 U	0.0720 U	0.0720 U	
SPR-2B-10-12	'10-12	7/19/2001				0.100 U	0.0719 J	0.100 U	0.100 U	
SPR-3 0-.5	'0-0.5	8/21/2001				0.0249 J	0.0720 U	0.0720 U	0.0720 U	
SPR-3 4-6	'4-6	8/21/2001				0.0474 J	0.0860 U	0.0860 U	0.0860 U	
SPR-4A-0-0.5	'0-0.5	7/19/2001				0.0810 U	0.0810 U	0.0810 U	0.0810 U	
SPR-4A-8-10	'8-10	7/19/2001				0.110 U	0.110 U	0.110 U	0.110 U	
SPR-4B-0-0.5	'0-0.5	8/22/2001				0.0800 U	0.0527 J	0.0800 U	0.0800 U	
SPR-4B-4-6	'4-6	8/23/2001				0.0233 J	0.0840	0.0800 U	0.0800 U	
SPR-4C-0-0.5	'0-0.5	8/23/2001				0.370 U	0.370 U	0.370 U	0.370 U	
SPR-4C-4-6	'4-6	8/23/2001				2.37	0.212	0.102	0.366	
SPR-5-0-0.5	'0-0.5	9/5/2001				2.10 U	2.10 U	2.10 U	2.10 U	
SPR-5-2-4	'2-4	9/5/2001				0.106	0.0822 J	0.0718 J	0.0976	
SPR-6-0.5-2	'0.5-2	9/13/2001	1.40 JN			0.0957	0.0614 J	0.0750 U	0.0750 U	
SPR-6-0-0.5	'0-0.5	9/13/2001				0.0680 U	0.0680 U	0.0680 U	0.0680 U	
SR-1-0-.5	'0-0.5	7/17/2001				0.0710 U	0.0710 U	0.0710 U	0.0710 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001				0.0680 U	0.0680 U	0.0680 U	0.0680 U	
ST-1-0-0.5	'0-0.5	9/5/2001				0.400 U	0.400 U	0.400 U	0.400 U	
ST-2-0-0.5	'0-0.5	9/5/2001				0.400 U	0.400 U	0.400 U	0.400 U	
ST-3-0-0.5	'0-0.5	9/4/2001				0.0790 U	0.0790 U	0.0790 U	0.0790 U	
ST-3-4-6	'4-6	9/4/2001				0.0311 J	0.100 U	0.100 U	0.100 U	
TES-1-0-1	'0-1	12/5/2006				0.120 U	0.0850 U	0.100 U	0.0800 U	
TES-2-0-1	'0-1	12/4/2006			0.200 U					
TES-3-0-1	'0-1	12/4/2006			0.0990 U					
TES-4-0-1	'0-1	12/5/2006				0.0230 U	0.0160 U	0.0200 U	0.0150 U	
TLN-1 .5-2	'0.5-2	8/20/2001				0.0840 U	0.0840 U	0.0840 U	0.0840 U	
TLN-1 0-.5	'0-0.5	8/20/2001				0.0528 J	0.0615 J	0.0830 U	0.0830 U	
TLN-2-0-0.5	'0-0.5	7/19/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
TLN-3-0-.5	'0-0.5	7/17/2001			3.80 JN	0.340 U	0.340 U	0.340 U	0.340 U	
TLN-3-2-4	'2-4	7/17/2001				0.206	0.176	0.0780 U	0.0780 U	
TLN-4 0-.5	'0-0.5	8/20/2001				0.0690 U	0.0690 U	0.0690 U	0.0690 U	
TLN-4 0-.5 DUP	'0-0.5	8/20/2001				0.0730 U	0.0730 U	0.0730 U	0.0730 U	
TLN-5 .5-2	'0.5-2	8/20/2001				0.0720 U	0.0720 U	0.0720 U	0.0720 U	
TLN-5 0-.5	'0-0.5	8/20/2001				0.0720 U	0.0720 U	0.0720 U	0.0720 U	
TLN-5-4-6	'4-6	8/30/2001				0.0730 U	0.0730 U	0.0730 U	0.0730 U	
TLN-6 0-.5	'0-0.5	8/20/2001				0.0720 U	0.0720 U	0.0720 U	0.0720 U	
TLS-10 0-.5	'0-0.5	8/21/2001				0.0292 J	0.0662 J	0.0780 U	0.0780 U	
TLS-10 8-10	'8-10	8/21/2001	0.540 JN			0.0899 J	0.712	0.0346 J	0.0483 J	
TLS-1-0-0.5	'0-0.5	9/5/2001				0.390 U	0.390 U	0.390 U	0.390 U	
TLS-11-0-0.5	'0-0.5	9/7/2001				0.0589 J	0.0750 U	0.0750 U	0.0750 U	
TLS-2-0-0.5	'0-0.5	9/7/2001				0.370 U	0.370 U	0.370 U	0.370 U	
TLS-2-6-8	'6-8	9/7/2001				0.120 U	0.120 U	0.120 U	0.120 U	
TLS-3 0-.5	'0-0.5	8/21/2001				0.0740 U	0.0740 U	0.0740 U	0.0740 U	
TLS-4-0-0.5	'0-0.5	9/7/2001				0.0217 J	0.0730 U	0.0730 U	0.0730 U	
TLS-4-8-10	'8-10	9/7/2001				0.110 U	0.110 U	0.110 U	0.110 U	
TLS-5 0-0.5	'0-0.5	8/21/2001				0.0710 U	0.0710 U	0.0710 U	0.0710 U	
TLS-5-8-10	'8-10	9/26/2001				0.100 U	0.100 U	0.100 U	0.100 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol	_1_Benzothieno_3,2-B__1_Benzothiop	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Methanoazulene, Decahydro-4,8,8-Trim
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001				0.0900 U	0.0376 J	0.0900 U	0.0900 U	
TLS-6-3-5	'3-5	9/26/2001				8.90 U	8.90 U	8.90 U	8.90 U	
TLS-7 0-.5	'0-0.5	8/21/2001				0.0302 J	0.0990 U	0.0990 U	0.0990 U	
TLS-8-0-0.5	'0-0.5	9/7/2001				0.0760 U	0.0213 J	0.0760 U	0.0760 U	
TLS-8-6-8	'6-8	9/7/2001	0.190 JN			0.0870 U	0.0870 U	0.0870 U	0.0870 U	
TLS-9 0-.5	'0-0.5	8/21/2001				0.360 U	0.360 U	0.360 U	0.360 U	
TP-105	'0-0	6/8/2007			0.0160 U					
TP-105A	'0-0	6/8/2007			0.0160 U					
TP-106-A	'0-0	6/8/2007			0.0170 U					
TP-106-B	'0-0	6/8/2007			0.0160 U					
WWT-1-0-0.5	'0-0.5	7/19/2001	0.900 JN			0.390 U	0.390 U	0.390 U	0.390 U	
WWT-101-15-17	'15-17	11/6/2006			0.0200 U					
WWT-101-21-23	'21-23	11/6/2006			0.0190 U					
WWT-1-12-14	'12-14	8/23/2001				6.60	218.	12.5	33.8	
WWT-2-0-0.5	'0-0.5	8/23/2001				0.175	0.328	0.0227 J	0.0474 J	
WWT-2-12-14	'12-14	8/23/2001				0.590	1.10	0.0800 J	0.161 J	
WWT-3-0-0.5	'0-0.5	8/23/2001				0.248 J	0.225 J	0.360 U	0.360 U	
WWT-3-12-14	'12-14	8/23/2001				0.179	0.280	0.104 J	0.0853 J	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS									68000	74	2100
12K-B1-0.5-2	'0.5-2	9/6/2001							0.2100 U	0.2100 U	0.2100 U
12K-B1-0-0.5	'0-0.5	9/6/2001							0.2000 U	0.2000 U	0.2000 U
12K-B2-0.5-2	'0.5-2	9/6/2001							0.2000 U	0.2000 U	0.2000 U
12K-B2-0-0.5	'0-0.5	9/6/2001							0.2000 U	0.2000 U	0.2000 U
150K-1-0.5-2	'0.5-2	9/10/2001							0.1900 U	0.1900 U	0.1900 U
150K-1-0-0.5	'0-0.5	9/10/2001							1.0000 U	1.0000 U	1.0000 U
230-B1-0.5	'0-0.5	10/2/2001							0.2000 U	0.2000 U	0.2000 U
230-B10-0-0.5	'0-0.5	8/30/2001							0.2500 U	0.2500 U	0.2500 U
230-B10-1.5-2	'1.5-2	8/30/2001							0.2100 U	0.2100 U	0.2100 U
230-B11-0-0.5	'0-0.5	8/30/2001							0.1800 U	0.1800 U	0.1800 U
230-B11-1.5-2	'1.5-2	8/30/2001							0.1800 U	0.1800 U	0.1800 U
230-B1-4-6	'4-6	10/2/2001							0.9800 U	0.9800 U	0.9800 U
230-B2-0-0.5	'0-0.5	8/30/2001							0.2000 U	0.2000 U	0.2000 U
230-B2-1.5-2	'1.5-2	8/30/2001							0.1800 U	0.1800 U	0.1800 U
230-B3-0-0.5	'0-0.5	8/30/2001							0.190 U	0.190 U	0.190 U
230-B3-1.5-2	'1.5-2	8/30/2001			0.300 JN				0.200 U	0.200 U	0.200 U
230-B4-0-0.5	'0-0.5	8/30/2001							0.200 U	0.200 U	0.200 U
230-B4-1.5-2	'1.5-2	8/30/2001							0.190 U	0.190 U	0.190 U
230-B5-0-0.5	'0-0.5	9/13/2001							0.200 U	0.200 U	0.200 U
230-B5-1.5-2	'1.5-2	9/13/2001							0.190 U	0.190 U	0.190 U
230-B6 0-0.5	'0-0.5	8/22/2001							0.190 U	0.190 U	0.190 U
230-B6 1.5-2	'1.5-2	8/22/2001							0.190 U	0.190 U	0.190 U
230-B7 0-0.5	'0-0.5	8/22/2001							0.200 U	0.200 U	0.200 U
230-B7 1.5-2	'1.5-2	8/22/2001							0.200 U	0.200 U	0.200 U
230-B8 1.5-2	'1.5-2	8/22/2001							0.210 U	0.210 U	0.210 U
230-B9 0-0.5	'0-0.5	8/22/2001							0.180 U	0.180 U	0.180 U
230-B9 0-0.5	'0-0.5	8/22/2001							0.190 U	0.190 U	0.190 U
230-B9 1.5-2	'1.5-2	8/22/2001							0.190 U	0.190 U	0.190 U
231-B1-0-0.5	'0-0.5	10/5/2001							0.190 U	0.190 U	0.190 U
231-B10-0-0.5	'0-0.5	9/17/2001							0.210 U	0.210 U	0.210 U
231-B11-0-0.5	'0-0.5	9/19/2001							0.230 U	0.230 U	0.230 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001							0.210 U	0.210 U	0.210 U
231-B12-0-0.5	'0-0.5	9/17/2001							0.190 U	0.190 U	0.190 U
231-B13-0-0.5	'0-0.5	9/19/2001							0.960 U	0.960 U	0.960 U
231-B13-8-10	'9-10	9/27/2001							0.190 U	0.190 U	0.190 U
231-B14-0-0.5	'0-0.5	9/19/2001							0.200 U	0.200 U	0.200 U
231-B2-0.5-2	'0.5-2	8/22/2001							0.180 U	0.180 U	0.180 U
231-B2-0-0.5	'0-0.5	8/22/2001							0.180 U	0.180 U	0.180 U
231-B3-0-0.5	'0-0.5	8/22/2001							0.190 U	0.190 U	0.190 U
231-B4-0-0.5	'0-0.5	8/30/2001							0.190 U	0.190 U	0.190 U
231-B4-6-8	'6-8	9/27/2001							0.200 U	0.200 U	0.200 U
231-B5-0.5-2	'0.5-2	9/19/2001							0.210 U	0.210 U	0.210 U
231-B6-0-0.5	'0-0.5	9/27/2001							0.230 U	0.230 U	0.230 U
231-B6-4-6	'4-6	9/27/2001							0.190 U	0.190 U	0.190 U
231-B7-0-0.5	'0-0.5	9/13/2001							1.00 U	1.00 U	1.00 U
231-B8-0-0.5	'0-0.5	9/27/2001							0.390 UJ	0.390 UJ	0.390 UJ
231-B8-8-10	'8-10	9/27/2001							16.0 U	16.0 U	16.0 U
231-B9-0.5-2	'0.5-2	9/27/2001							0.230 U	0.230 U	0.230 U
231-B9-0-0.5	'0-0.5	9/27/2001							1.20 U	1.20 U	1.20 U
240-1-0-0.5	'0-0.5	9/26/2001							0.200 U	0.200 U	0.200 U
240-1-8-10	'8-10	10/1/2001							0.200 U	0.200 U	0.200 U
5K-B1-0-0.5	'0-0.5	10/1/2001							1.00 U	1.00 U	1.00 U
5K-B2-0-0.5	'0-0.5	8/31/2001							0.180 U	0.180 U	0.180 U
5K-B2-8-10	'8-10	8/31/2001							0.200 U	0.200 U	0.200 U
5K-B3-0-0.5	'0-0.5	9/26/2001							0.200 U	0.200 U	0.200 U
5K-B4-0-0.5	'0-0.5	10/1/2001							1.20 U	1.20 U	1.20 U
5K-B4-4-6	'4-6	10/1/2001							1.40 U	1.40 U	1.40 U
5K-B5-0-0.5	'0-0.5	8/31/2001							0.200 U	0.200 U	0.200 U
5K-B5-4-6	'4-6	9/26/2001							0.220 U	0.220 U	0.220 U
AB-1-0-0.5	'0-0.5	9/4/2001							0.105 J	0.200 U	0.200 U
AB-2-0.5-2	'0.5-2	9/4/2001							0.220 U	0.220 U	0.220 U
AB-2-0-0.5	'0-0.5	9/4/2001							0.200 U	0.200 U	0.200 U
ADN-1-0-0.5	'0-0.5	9/5/2001							0.190 U	0.190 U	0.190 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001							0.240 U	0.240 U	0.240 U
ADN-2-0-0.5	'0-0.5	9/5/2001							0.200 U	0.200 U	0.200 U
ADN-2-10-11	'10-11	9/27/2001							0.200 U	0.200 U	0.200 U
ADS-1-0-.5	'0-0.5	7/17/2001							0.940 U	0.940 U	0.940 U
ADS-10-0-0.5	'0-2	7/18/2001							0.190 U	0.190 U	0.190 U
ADS-101-0-1	'0-1	12/5/2006							0.0580 U	0.0330 U	0.0650 U
ADS-101-1-3	'1-3	12/5/2006							0.0570 U	0.0320 U	0.0630 U
ADS-102-0-1.5	'0-2	12/5/2006							0.0560 U	0.0310 U	0.0620 U
ADS-102-7-8	'4-8	12/5/2006							0.0600 U	0.0340 U	0.0670 U
ADS-10-4-6	'4-6	7/18/2001							0.240 U	0.240 U	0.240 U
ADS-11-0-0.5	'0-2	7/18/2001							0.190 U	0.190 U	0.190 U
ADS-12-0.5-2	'0.5-2	7/18/2001							0.220 U	0.220 U	0.220 U
ADS-12-0-0.5	'0-0.5	7/18/2001							0.210 U	0.210 U	0.210 U
ADS-2-0-0.5	'0-0.5	7/18/2001							0.200 U	0.200 U	0.200 U
ADS-2-4-6	'4-6	7/18/2001							0.200 U	0.200 U	0.200 U
ADS-3-0-0.5	'0-0.5	7/18/2001							0.190 U	0.190 U	0.190 U
ADS-4-0-0.5	'0-2	7/18/2001							0.190 U	0.190 U	0.190 U
ADS-4-12-14	'12-14	7/18/2001							0.210 U	0.210 U	0.210 U
ADS-5-0-0.5	'0-0.5	7/18/2001							0.900 U	0.900 U	0.900 U
ADS-5-4-6	'4-6	9/27/2001							0.190 U	0.190 U	0.190 U
ADS-6-0.5-2	'0.5-2	7/18/2001							0.190 U	0.190 U	0.190 U
ADS-6-0-0.5	'0-0.5	7/18/2001							0.950 U	0.950 U	0.950 U
ADS-7-0-.5	'0-0.5	7/17/2001							0.900 U	0.900 U	0.900 U
ADS-8-0-0.5	'0-0.5	7/18/2001							0.210 U	0.210 U	0.210 U
ADS-8-4-6	'4-6	7/18/2001							0.210 U	0.210 U	0.210 U
ADS-9-0-0.5	'0-0.5	7/18/2001							0.220 U	0.220 U	0.220 U
BLIND DUP	'0-0	8/21/2001							0.180 U	0.180 U	0.180 U
BSL-10-0-1	'0-1	9/21/2001							0.250 U	0.250 U	0.250 U
BSL-1-0-1	'0-1	9/20/2001							0.200 U	0.200 U	0.200 U
BSL-11-0-1	'0-1	9/26/2001							0.240 U	0.240 U	0.240 U
BSL-12-0-1	'0-1	9/26/2001							0.190 U	0.190 U	0.190 U
BSL-1-4-6	'4-6	9/20/2001							0.240 U	0.240 U	0.240 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001							0.250 U	0.250 U	0.250 U
BSL-3-0-0.5	'0-0.5	9/20/2001							0.180 U	0.180 U	0.180 U
BSL-4-0-1	'0-0.5	9/21/2001							0.220 U	0.220 U	0.220 U
BSL-4-4-6	'4-6	9/21/2001							0.350 U	0.350 U	0.350 U
BSL-5-0-.5	'0-0.5	9/21/2001							0.200 U	0.200 U	0.200 U
BSL-6-0-1	'0-1	9/26/2001							0.270 U	0.270 U	0.270 U
BSL-6-1-2	'1-2	9/26/2001							0.320 U	0.320 U	0.320 U
BSL-7-0-.5	'0-0.5	9/21/2001							0.240 U	0.240 U	0.240 U
BSL-8-0-1	'0-1	9/26/2001							0.300 U	0.300 U	0.300 U
BSL-9-.5-2	'0.5-2	9/21/2001							0.270 U	0.270 U	0.270 U
BSL-9-0-.5	'0-0.5	9/21/2001							0.210 U	0.210 U	0.210 U
BT-B1-0-0.5	'0-0.5	9/18/2001							0.200 U	0.200 U	0.200 U
BT-B2-0.5-2	'0.5-2	9/18/2001							0.200 U	0.200 U	0.200 U
BT-B2-0-0.5	'0-0.5	9/18/2001							0.220 U	0.220 U	0.220 U
BT-B3-0-0.5	'0-0.5	9/18/2001							0.960 U	0.960 U	0.960 U
BT-B4-0.5-2	'0.5-2	8/30/2001							0.190 U	0.190 U	0.190 U
BT-B4-0-0.5	'0-0.5	8/30/2001							0.840 U	0.840 U	0.840 U
BT-B5-0-.5	'0-0.5	10/2/2001							0.200 U	0.200 U	0.200 U
BT-B6-0.5-2	'0.5-2	9/17/2001							0.220 U	0.220 U	0.220 U
BT-B6-0-0.5	'0-0.5	9/17/2001							0.860 U	0.860 U	0.860 U
CF-1-0-0.5	'0-0.5	8/31/2001							0.180 U	0.180 U	0.180 U
CF-1-2-4	'2-4	8/31/2001							0.190 U	0.190 U	0.190 U
CF-2-0-0.5	'0-0.5	8/28/2001							0.210 U	0.210 U	0.210 U
CF-3-0.5-2	'0.5-2	8/28/2001							0.330 U	0.330 U	0.330 U
CF-3-0-0.5	'0-0.5	8/28/2001							0.250 U	0.250 U	0.250 U
CF-4-0-0.5	'0-0.5	8/28/2001							0.220 U	0.220 U	0.220 U
CF-5-0-0.5	'0-0.5	8/28/2001							0.170 U	0.170 U	0.170 U
CF-5-4-6	'4-6	8/28/2001							0.190 U	0.190 U	0.190 U
CF-6-0-0.5	'0-0.5	8/28/2001							0.190 U	0.190 U	0.190 U
CF-7-0-0.5	'0-0.5	8/28/2001							0.190 U	0.190 U	0.190 U
CF-7-4-6	'4-6	8/28/2001							0.180 U	0.180 U	0.180 U
CF-8-0-0.5	'0-0.5	8/28/2001							0.190 U	0.190 U	0.190 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001							0.180 U	0.180 U	0.180 U
CF-9-0-0.5	'0-0.5	8/31/2001							0.180 U	0.180 U	0.180 U
DC-B12-0-0.5	'0-0.5	10/3/2001							0.190 U	0.190 U	0.190 U
DC-B12-2-4	'2-4	10/3/2001							0.180 U	0.180 U	0.180 U
DC-SS1-0-0.5	'0-0.5	9/18/2001							0.180 U	0.180 U	0.180 U
DC-SS11-0-0.5	'0-0.5	9/17/2001							0.920 U	0.920 U	0.920 U
DC-SS13-0-0.5	'0-0.5	9/17/2001							0.860 U	0.860 U	0.860 U
DC-SS15-0-0.5	'0-0.5	9/17/2001	0.860 JN						1.00 U	1.00 U	1.00 U
DC-SS17-0-0.5	'0-0.5	9/17/2001							0.210 U	0.210 U	0.210 U
DC-SS2-0-0.5	'0-0.5	9/17/2001							0.180 U	0.180 U	0.180 U
DC-SS3-0-0.5	'0-0.5	9/17/2001							0.220 U	0.220 U	0.220 U
DC-SS6-0-0.5	'0-0.5	9/17/2001							0.190 U	0.190 U	0.190 U
DC-SS7-0-0.5	'0-0.5	9/17/2001							0.190 U	0.190 U	0.190 U
DC-SS9-0-0.5	'0-0.5	9/17/2001							0.190 U	0.190 U	0.190 U
DSP-1-0-0.5	'0-0.5	10/3/2001							0.200 U	0.200 U	0.200 U
DSP-1-4-6	'4-6	11/19/2001							0.210 U	0.210 U	0.210 U
DSP-2-0-0.5	'0-0.5	9/4/2001							0.180 U	0.180 U	0.180 U
DSP-3-0-0.5	'0-0.5	9/4/2001							0.940 U	0.940 U	0.940 U
DSP-3-2-4	'2-4	9/4/2001							0.210 U	0.210 U	0.210 U
DSP-4-0-0.5	'0-0.5	9/4/2001							0.210 U	0.210 U	0.210 U
DSP-4-4-6	'4-6	9/26/2001							0.210 U	0.210 U	0.210 U
DUP-01-010824	'0-0.5	8/24/2001				0.400 JN			0.190 U	0.190 U	0.190 U
DUP-01-010831	'2-4	8/31/2001							0.190 U	0.190 U	0.190 U
DUP-01-010904	'0-0.5	9/4/2001							0.920 U	0.920 U	0.920 U
DUP-01-010905	'8-10	9/5/2001							0.210 U	0.210 U	0.210 U
DUP-01-010906	'0-8	9/6/2001							0.760 U	0.760 U	0.760 U
DUP-01-010913	'0-0.5	9/13/2001							0.960 U	0.960 U	0.960 U
DUP-01-010917	'0-0.5	9/17/2001							0.190 U	0.190 U	0.190 U
DUP-01-010926	'1-2	9/26/2001							0.320 U	0.320 U	0.320 U
DUP-01-010927	'4-6	9/27/2001							0.180 U	0.180 U	0.180 U
DUP-01-021001	'0-0	10/2/2001							0.190 U	0.190 U	0.190 U
DUP-01-08 2201	'1.5-2	8/22/2001							0.200 U	0.200 U	0.200 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001							0.190 U	0.190 U	0.190 U
DUP-01-170402	'0-0	4/17/2002							0.460 U	0.460 U	0.460 U
DUP-02-010913	'0-0.5	9/13/2001							1.10 U	1.10 U	1.10 U
DUP-02-010921	'0-1	9/21/2001							0.230 U	0.230 U	0.230 U
DUP-02-010926	'4-6	9/26/2001							0.220 U	0.220 U	0.220 U
DUP060807	'0-0	6/8/2007							0.0520 U	0.0290 U	0.0570 U
DUP-1-010828	'0-0.5	8/28/2001							0.190 U	0.190 U	0.190 U
DUP-1-010921	'0-0.5	9/21/2001							0.260 U	0.260 U	0.260 U
DUP110606	'15-17	11/6/2006							0.0630 U	0.0350 U	0.0700 U
DUP112006	'16-18	11/20/2006							0.0980 U	0.0550 U	0.110 U
DUP112106	'10-12	11/21/2006							0.100 U	0.0580 U	0.110 U
DUP-120506	'0-4	12/5/2006							0.150 U	0.0860 U	0.170 U
DUP-120606	'0-4	12/6/2006							0.0510 U	0.0290 U	0.0570 U
DUPE071801	'0-0.5	7/18/2001							0.180 U	0.180 U	0.180 U
EC-1	'0-1	8/21/2001							0.190 U	0.190 U	0.190 U
EC-2	'0-1	8/21/2001							0.190 U	0.190 U	0.190 U
EC-3	'0-1	8/21/2001							0.180 U	0.180 U	0.180 U
EC-4	'0-1	8/21/2001							0.180 U	0.180 U	0.180 U
EC-5	'0-1	8/21/2001							0.180 U	0.180 U	0.180 U
EC-6	'0-1	8/21/2001							0.210 U	0.210 U	0.210 U
EC-7	'0-1	8/21/2001							0.200 U	0.200 U	0.200 U
EC-8	'0-1	8/21/2001							0.180 U	0.180 U	0.180 U
EC-9	'0-1	8/21/2001							0.220 U	0.220 U	0.220 U
ESR-1-0-1	'0-0.5	9/4/2001							0.180 U	0.180 U	0.180 U
ESR-1-4-6	'4-6	9/4/2001							0.210 U	0.210 U	0.210 U
HB-101A	'17-17	3/5/2007							0.0580 U	0.0320 U	0.0640 U
HB-102A	'0-0	3/13/2007							0.0900 U	0.0500 U	0.100 U
HB-102B	'0-0	3/14/2007							0.0610 U	0.0340 U	0.0680 U
HB-102C	'0-0	3/14/2007							0.0570 U	0.0320 U	0.0630 U
H-B-103A	'17-17	2/20/2007							0.0790 U	0.0440 U	0.0880 U
H-B-104A	'17-17	2/23/2007							0.0620 U	0.0350 U	0.0690 U
H-B-104B	'17-17	2/23/2007							0.0580 U	0.0320 U	0.0640 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007							0.0630 U	0.0350 U	0.0700 U
H-B-104D	'17-17	2/27/2007							0.0580 U	0.0330 U	0.0650 U
H-B-104E	'17-17	2/27/2007				0.210 JN			0.0590 U	0.0330 U	0.0660 U
H-B-105C	'17-17	2/8/2007							0.0560 U	0.0320 U	0.0630 U
H-B-105D	'17-17	2/8/2007							0.0610 U	0.0340 U	0.0680 U
H-B-105E	'0-0	2/8/2007							0.0610 U	0.0340 U	0.0680 U
HB-1A	'6.75-6.75	4/18/2002		0.890 JN	1.70 JN				0.300 U	0.300 U	0.300 U
HB-3A	'5.25-5.25	4/17/2002				0.620 JN			0.520 U	0.520 U	0.520 U
HB-3B	'4.5-4.5	4/17/2002							0.200 U	0.200 U	0.200 U
HB-3C	'4.5-4.5	4/18/2002							0.190 U	0.190 U	0.190 U
HB-3D	'4.5-4.5	4/18/2002							0.200 U	0.200 U	0.200 U
HB-4A	'5.33-5.33	4/19/2002							0.200 U	0.200 U	0.200 U
HB-5A	'3-3	4/22/2002							0.210 U	0.210 U	0.210 U
HB-7A	'5-5	4/19/2002		0.330 JN					0.210 U	0.210 U	0.210 U
HB-8A	'3-3	4/23/2002							0.200 U	0.200 U	0.200 U
HB-8B	'4.83-4.83	4/23/2002		0.280 JN					0.200 U	0.200 U	0.200 U
HB-8C	'5.5-5.5	4/23/2002							0.268	0.200 U	0.517
HB-9A	'4.75-4.75	4/24/2002							0.210 U	0.210 U	0.210 U
HF-B1-0-0.5	'0-0.5	9/10/2001							0.200 U	0.200 U	0.200 U
HF-B1-8-10	'8-10	9/10/2001				1.00 JN			0.230 U	0.230 U	0.230 U
HF-B2-0-0.5	'0-0.5	9/4/2001							0.180 U	0.180 U	0.180 U
HF-B2-4-6	'4-6	9/4/2001							0.180 U	0.180 U	0.180 U
HF-B3-0-.5	'0-0.5	10/2/2001							0.190 U	0.190 U	0.190 U
HF-B3-8-10	'8-10	10/2/2001							0.190 U	0.190 U	0.190 U
IB-1-0-2	'0-2	4/8/2002							0.190 U	0.190 U	0.190 U
IB-1-4-6	'4-6	4/8/2002							0.190 U	0.190 U	0.190 U
IB-2-12-14	'12-14	4/8/2002							0.210 U	0.210 U	0.210 U
IB-2-4-6	'4-6	4/8/2002							0.190 U	0.190 U	0.190 U
IB-3-4-6	'4-6	4/8/2002							0.210 U	0.210 U	0.210 U
IB-3-8-10	'8-10	4/8/2002							0.220 U	0.220 U	0.220 U
LB-101-0-1	'0-1	12/6/2006							0.0540 U	0.0300 U	0.0600 U
LB-101-1-3	'1-3	12/6/2006							0.0510 U	0.0290 U	0.0570 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006							0.0550 U	0.0310 U	0.0620 U
LB-102-1-3	'3-7	12/6/2006							0.0550 U	0.0310 U	0.0610 U
LB-103-0-1	'0-1	12/6/2006							0.0530 U	0.0300 U	0.0600 U
LB-103-5-7	'5-7	12/6/2006							0.0610 U	0.0340 U	0.0680 U
LHP-101-0-1	'0-1	12/4/2006							0.280 U	0.150 UJ	0.310 U
LHP-101-5-8	'4-8	12/4/2006							0.200 U	0.110 UJ	0.220 U
LHP-102-0-1	'0-1	12/5/2006							0.0560 U	0.0310 U	0.0620 U
LHP-102-7-9	'7-9	12/5/2006				0.360 JN			0.0700 U	0.0390 U	0.0770 U
LHP-103-0-1	'0-1	12/5/2006							0.280 U	0.160 U	0.310 U
LHP-103-1-3	'1-3	12/5/2006							0.0610 U	0.0340 U	0.0680 U
LHP-104-0-1	'0-1	12/5/2006							0.0520 U	0.0290 U	0.0580 U
LHP-104-7-9	'4-8	12/5/2006							0.0590 U	0.0330 U	0.0650 U
LHP-105-0-1	'0-1	12/5/2006							0.260 U	0.150 U	0.290 U
LHP-105-1-3	'1-3	12/5/2006							0.0530 U	0.0290 U	0.0580 U
LHP-106-0-1	'0-1	12/4/2006							0.260 U	0.140 UJ	0.290 U
LHP-106-1-3	'1-3	12/4/2006							0.310 U	0.170 UJ	0.350 U
LHP-107-0-1	'0-1	12/5/2006							0.0540 U	0.0300 U	0.0600 U
LHP-107-5-7	'4-8	12/5/2006							0.0570 U	0.0320 U	0.0640 U
LHP-108-0-1	'0-1	12/6/2006							0.0560 U	0.0310 U	0.0630 U
LHP-108-3-7	'3-7	12/6/2006							0.0610 U	0.0340 U	0.0670 U
LHP-109-0-1	'0-1	12/6/2006							0.0570 U	0.0320 U	0.0640 U
LHP-109-7-9	'7-9	12/6/2006							0.0690 U	0.0380 U	0.0760 U
LHP-110-0-1	'0-1	12/4/2006							0.570 U	0.320 UJ	0.630 U
LHP-111-0-1	'0-1	12/4/2006							0.0560 U	0.0310 UJ	0.0620 U
LHP-112-0-1	'0-1	12/4/2006							0.0570 U	0.0320 UJ	0.0630 U
LHP-113-0-1	'0-1	12/4/2006							0.0530 U	0.0300 UJ	0.0590 U
LHP-114-0-1	'0-1	12/4/2006							0.0550 U	0.0310 UJ	0.0610 U
LHP-115-0-1	'0-1	12/4/2006							0.0520 U	0.0290 UJ	0.0580 U
LHP-116-0-1	'0-1	12/4/2006							0.0560 U	0.0310 UJ	0.0620 U
LHP-117-0-1	'0-1	12/4/2006							0.0580 U	0.0320 UJ	0.0640 U
LHP-118-0-1	'0-1	12/4/2006							0.300 U	0.170 UJ	0.330 U
LHP-119-0-1	'0-1	12/4/2006							0.0580 U	0.0320 UJ	0.0640 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006				0.170 JN			0.0640 U	0.0360 UJ	0.0720 U
LHP-121-0-1	'0-1	12/6/2006							0.0570 U	0.0320 U	0.0630 U
LHP-122-0-1	'0-1	12/6/2006							0.0540 U	0.0300 U	0.0600 U
LHP-123-0-1	'0-1	12/4/2006							0.0570 U	0.0320 UJ	0.0640 U
LHP-124-.5-2	'0.5-2	10/27/2006							0.0580 U	0.0330 U	0.0650 U
LHP-124-10-12	'10-12	10/31/2006							0.0930 U	0.0520 U	0.100 U
LHP-124-2-4	'2-4	10/27/2006							0.0590 U	0.0330 U	0.0650 U
LHP-124-28-30	'28-30	10/31/2006							0.0690 U	0.0390 U	0.0770 U
LHP-125-.5-2	'0.5-2	10/27/2006							0.0560 U	0.0320 U	0.0630 U
LHP-125-10.5-12	'10.5-12	11/1/2006							0.0640 U	0.0360 U	0.0710 U
LHP-125-12-14	'12-14	11/1/2006							0.0580 U	0.0320 U	0.0640 U
LHP-125-4-6	'4-6	10/27/2006							0.0550 U	0.0310 U	0.0620 U
LHP-126-10.5-12	'10.5-12	11/1/2006							0.240 UJ	0.130 UJ	0.270 UJ
LHP-126-14-16	'14-16	11/1/2006							0.0600 U	0.0330 U	0.0660 U
LHP-126-2-4	'2-4	10/26/2006							0.0550 U	0.0310 U	0.0620 U
LHP-126-8-10	'9-10	10/26/2006							0.0610 U	0.0340 U	0.0680 U
LHP-127-0-1	'0-1	12/6/2006							0.0530 U	0.0300 U	0.0590 U
LHP-127-3-5	'3-5	12/6/2006							0.0530 U	0.0290 U	0.0590 U
LHP-128-0-1	'0-4	12/6/2006							0.0520 U	0.0290 U	0.0580 U
LHP-128-7-8	'17-17	12/6/2006							0.0690 U	0.0380 U	0.0760 U
LP-1-0-0.5	'0-0.5	8/27/2001							0.190 U	0.190 U	0.190 U
LP-10-0.5-2	'0.5-2	8/27/2001							0.210 U	0.210 U	0.210 U
LP-10-0-0.5	'0-0.5	8/27/2001							0.190 U	0.190 U	0.190 U
LP-101-11-13	'11-13	11/2/2006							0.0930 U	0.0520 U	0.100 U
LP-101-14-16	'14-16	11/2/2006							0.0810 U	0.0450 U	0.0900 U
LP-101-26-28	'26-28	11/2/2006							0.0580 U	0.0320 U	0.0650 U
LP-101-50-52	'50-52	11/2/2006							0.0570 U	0.0320 U	0.0630 U
LP-11-0-0.5	'0-0.5	8/27/2001							0.210 U	0.210 U	0.210 U
LP-12-0-0.5	'0-0.5	8/27/2001							0.180 U	0.180 U	0.180 U
LP-12-4-6	'4-6	8/27/2001							0.180 U	0.180 U	0.180 U
LP-13-0-0.5	'0-0.5	8/24/2001							0.210 U	0.210 U	0.210 U
LP-14-0.5-2	'0.5-2	8/24/2001							0.180 U	0.180 U	0.180 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001							0.920 U	0.920 U	0.920 U
LP-15-0-0.5	'0-0.5	8/24/2001							0.190 U	0.190 U	0.190 U
LP-16-0.5-2	'0.5-2	8/27/2001							0.910 U	0.910 U	0.910 U
LP-16-0-0.5	'0-0.5	8/27/2001							0.190 U	0.190 U	0.190 U
LP-2-0.5-2	'0.5-2	8/28/2001							0.190 U	0.190 U	0.190 U
LP-2-0-0.5	'0-0.5	8/28/2001							0.190 U	0.190 U	0.190 U
LP-3-0-0.5	'0-0.5	8/27/2001							0.180 U	0.180 U	0.180 U
LP-4 .5-2	'0.5-2	8/21/2001							0.180 U	0.180 U	0.180 U
LP-4 0-.5	'0-0.5	8/21/2001							0.200 U	0.200 U	0.200 U
LP-5-0-0.5	'0-0.5	8/27/2001							0.190 U	0.190 U	0.190 U
LP-6-0-0.5	'0-0.5	8/27/2001							0.180 U	0.180 U	0.180 U
LP-6-4-6	'4-6	8/27/2001							0.180 U	0.180 U	0.180 U
LP-7-0-0.5	'0-0.5	8/24/2001							0.200 U	0.200 U	0.200 U
LP-8-0-0.5	'0-0.5	8/24/2001					0.360 JN		0.200 U	0.200 U	0.200 U
LP-8-10-12	'10-12	8/24/2001							0.280 U	0.280 U	0.280 U
LP-9-0-0.5	'0-0.5	8/24/2001							0.920 U	0.920 U	0.920 U
MW-11D-12-14	'12-14	12/14/2006							0.0890 U	0.0500 U	0.0990 U
MW-11D-14-16	'14-16	12/14/2006							0.0600 U	0.0330 U	0.0660 U
MW-11D-16-18	'16-18	12/14/2006							0.0590 U	0.0330 U	0.0660 U
MW-14D-13-15	'13-15	11/14/2006							0.0640 U	0.0360 U	0.0710 U
MW-14D-17-19	'17-19	11/14/2006							0.0590 U	0.0330 U	0.0660 U
MW-16D-13-15	'13-15	11/17/2006							0.0570 U	0.0320 UJ	0.0640 U
MW-16D-17-19	'17-19	11/20/2006							0.0580 UJ	0.0330 U	0.0650 U
MW-17D-15-17	'15-17	11/10/2006							0.0640 U	0.0360 U	0.0710 U
MW-17D-17-19	'17-19	11/10/2006							0.0580 U	0.0330 U	0.0650 U
MW-18D-13-15	'13-15	11/13/2006							0.0630 U	0.0350 U	0.0700 U
MW-18D-17-19	'17-19	11/13/2006							0.0570 U	0.0320 U	0.0640 U
MW-20D-12-14	'12-14	11/9/2006							0.0610 U	0.0340 U	0.0680 U
MW-20D-32-34	'32-32.9	11/10/2006							0.0570 U	0.0320 U	0.0640 U
MW-20D-36-38	'36-38	11/10/2006							0.0580 U	0.0330 U	0.0650 U
MW-21D-13-15	'13-13.7	11/16/2006							0.0620 U	0.0350 U	0.0690 U
MW-21D-15-17	'15-17	11/16/2006							0.0590 U	0.0330 UJ	0.0660 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006							0.0620 U	0.0350 U	0.0690 U
MW-23D-37-39	'37-37.9	11/15/2006							0.0570 U	0.0320 U	0.0640 U
MW-25D-10-12	'10-12	11/21/2006							0.110 U	0.0590 U	0.120 U
MW-25D-33-35	'33-35	12/18/2006							0.0630 U	0.0360 U	0.0710 U
MW-26S-8-10	'8-10	10/26/2006							0.0660 U	0.0370 U	0.0730 U
MW-6D-0-2	'0-2	11/8/2006							0.0570 U	0.0320 U	0.0630 U
MW-6D-12-14	'12-14	11/8/2006							0.130 U	0.0740 U	0.150 U
MW-6D-16-18	'16-18	11/20/2006							0.0920 UJ	0.0520 U	0.100 U
MW-6D-30-32	'30-32	11/21/2006							0.0590 U	0.0330 U	0.0660 U
PCA-1-0-.5	'0-2	7/17/2001							0.900 U	0.900 U	0.900 U
PCA-1-4-6	'4-6	7/17/2001							0.200 U	0.200 U	0.200 U
PCA-2-0-.5	'0-0.5	7/17/2001							0.180 U	0.180 U	0.180 U
PCA-3-0-0.5	'0-0.5	9/13/2001							0.390 U	0.390 U	0.390 U
PCA-3-4-6	'4-6	9/13/2001							0.210 U	0.210 U	0.210 U
PCA-4-0-0.5	'0-0.5	9/13/2001							0.950 U	0.950 U	0.950 U
PCA-4-4-6	'4-6	9/26/2001							0.210 U	0.210 U	0.210 U
PCA-5-0.5-2	'0.5-2	9/7/2001							0.190 U	0.190 U	0.190 U
PCA-5-0-0.5	'0-0.5	9/7/2001							0.210 U	0.210 U	0.210 U
PCA-6-0-0.5	'0-0.5	9/7/2001							0.180 U	0.180 U	0.180 U
RR-1 0-0.5	'0-0.5	8/22/2001							0.180 U	0.180 U	0.180 U
RR-1 14-16	'14-16	8/22/2001							0.200 U	0.200 U	0.200 U
RR-10 0-.5	'0-0.5	10/12/2001							0.180 U	0.180 U	0.180 U
RR-11 0-.5	'0-0.5	10/12/2001							0.200 U	0.200 U	0.200 U
RR-12 0-.5	'0-0.5	10/12/2001							0.200 U	0.200 U	0.200 U
RR-2-0-0.5	'0-0.5	9/13/2001							1.00 U	1.00 U	1.00 U
RR-2-8-10	'8-10	9/13/2001							0.250 U	0.250 U	0.250 U
RR-3-0-0.5	'0-0.5	9/13/2001							0.180 U	0.180 U	0.180 U
RR-4-0-0.5	'0-0.5	9/10/2001							0.200 U	0.200 U	0.200 U
RR-4-6-8	'6-8	9/13/2001							0.190 U	0.190 U	0.190 U
RR-5-0-0.5	'0-0.5	9/10/2001							0.170 U	0.170 U	0.170 U
RR-6-0-0.5	'0-0.5	9/10/2001							0.180 U	0.180 U	0.180 U
RR-6-8-10	'8-10	9/10/2001							0.190 U	0.190 U	0.190 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001							0.190 U	0.190 U	0.190 U
RR-8-0-0.5	'0-0.5	9/26/2001							0.220 U	0.220 U	0.220 U
RR-8-6-8	'6-8	9/26/2001							0.340 U	0.340 U	0.340 U
RR-9 0-.5	'0-0.5	10/12/2001							0.180 U	0.180 U	0.180 U
SC-1	'0-1	8/21/2001							0.220 U	0.220 U	0.220 U
SC-2	'0-1	8/22/2001							0.170 U	0.170 U	0.170 U
SC-3	'0-1	8/22/2001							0.200 U	0.200 U	0.200 U
SILO-B1-0-0.5	'0-0.5	9/6/2001							0.190 U	0.190 U	0.190 U
SILO-B1-6-8	'6-8	9/6/2001							0.740 U	0.740 U	0.740 U
SILO-B2-0-0.5	'0-0.5	9/6/2001							0.900 U	0.900 U	0.900 U
SILO-B3-0-0.5	'0-0.5	9/6/2001							1.00 U	1.00 U	1.00 U
SILO-B3-6-8	'6-8	9/6/2001							0.180 U	0.180 U	0.180 U
SILO-B4-0-0.5	'0-0.5	9/6/2001							1.00 U	1.00 U	1.00 U
SPR-1-0-0.5	'0-0.5	9/5/2001						2.20 JN	0.960 U	0.960 U	0.960 U
SPR-1-8-10	'8-10	9/5/2001							0.260 U	0.260 U	0.260 U
SPR-2A-0-0.5	'0-0.5	7/19/2001							0.190 U	0.190 U	0.190 U
SPR-2A-8-10	'8-10	7/19/2001							0.220 U	0.220 U	0.220 U
SPR-2B-0-0.5	'0-0.5	7/19/2001							0.180 U	0.180 U	0.180 U
SPR-2B-10-12	'10-12	7/19/2001							0.250 U	0.250 U	0.250 U
SPR-3 0-.5	'0-0.5	8/21/2001							0.180 U	0.180 U	0.180 U
SPR-3 4-6	'4-6	8/21/2001							0.210 U	0.210 U	0.210 U
SPR-4A-0-0.5	'0-0.5	7/19/2001							0.200 U	0.200 U	0.200 U
SPR-4A-8-10	'8-10	7/19/2001							0.280 U	0.280 U	0.280 U
SPR-4B-0-0.5	'0-0.5	8/22/2001							0.200 U	0.200 U	0.200 U
SPR-4B-4-6	'4-6	8/23/2001							0.200 U	0.200 U	0.200 U
SPR-4C-0-0.5	'0-0.5	8/23/2001							0.920 U	0.920 U	0.920 U
SPR-4C-4-6	'4-6	8/23/2001							0.220 U	0.220 U	0.220 U
SPR-5-0-0.5	'0-0.5	9/5/2001							5.20 U	5.20 U	5.20 U
SPR-5-2-4	'2-4	9/5/2001							0.220 U	0.220 U	0.220 U
SPR-6-0.5-2	'0.5-2	9/13/2001							0.190 U	0.190 U	0.190 U
SPR-6-0-0.5	'0-0.5	9/13/2001							0.170 U	0.170 U	0.170 U
SR-1-0-.5	'0-0.5	7/17/2001							0.180 U	0.180 U	0.180 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001							0.170 U	0.170 U	0.170 U
ST-1-0-0.5	'0-0.5	9/5/2001							1.00 U	1.00 U	1.00 U
ST-2-0-0.5	'0-0.5	9/5/2001							1.00 U	1.00 U	1.00 U
ST-3-0-0.5	'0-0.5	9/4/2001							0.200 U	0.200 U	0.200 U
ST-3-4-6	'4-6	9/4/2001							0.260 U	0.260 U	0.260 U
TES-1-0-1	'0-1	12/5/2006							0.290 U	0.160 U	0.320 U
TES-2-0-1	'0-1	12/4/2006							0.620 U	0.340 UJ	0.680 U
TES-3-0-1	'0-1	12/4/2006							0.310 U	0.170 UJ	0.340 U
TES-4-0-1	'0-1	12/5/2006				0.180 JN			0.0550 U	0.0310 U	0.0620 U
TLN-1 .5-2	'0.5-2	8/20/2001							0.210 U	0.210 U	0.210 U
TLN-1 0-.5	'0-0.5	8/20/2001							0.210 U	0.210 U	0.210 U
TLN-2-0-0.5	'0-0.5	7/19/2001							0.180 U	0.180 U	0.180 U
TLN-3-0-.5	'0-0.5	7/17/2001							0.860 U	0.860 U	0.860 U
TLN-3-2-4	'2-4	7/17/2001							0.190 U	0.190 U	0.190 U
TLN-4 0-.5	'0-0.5	8/20/2001							0.170 U	0.170 U	0.170 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001							0.180 U	0.180 U	0.180 U
TLN-5 .5-2	'0.5-2	8/20/2001							0.180 U	0.180 U	0.180 U
TLN-5 0-.5	'0-0.5	8/20/2001							0.180 U	0.180 U	0.180 U
TLN-5-4-6	'4-6	8/30/2001							0.180 U	0.180 U	0.180 U
TLN-6 0-.5	'0-0.5	8/20/2001							0.180 U	0.180 U	0.180 U
TLS-10 0-.5	'0-0.5	8/21/2001							0.190 U	0.190 U	0.190 U
TLS-10 8-10	'8-10	8/21/2001							0.240 U	0.240 U	0.240 U
TLS-1-0-0.5	'0-0.5	9/5/2001							0.970 U	0.970 U	0.970 U
TLS-11-0-0.5	'0-0.5	9/7/2001							0.190 U	0.190 U	0.190 U
TLS-2-0-0.5	'0-0.5	9/7/2001							0.940 U	0.940 U	0.940 U
TLS-2-6-8	'6-8	9/7/2001							0.290 U	0.290 U	0.290 U
TLS-3 0-.5	'0-0.5	8/21/2001							0.180 U	0.180 U	0.180 U
TLS-4-0-0.5	'0-0.5	9/7/2001							0.180 U	0.180 U	0.180 U
TLS-4-8-10	'8-10	9/7/2001				0.260 JN			0.280 U	0.280 U	0.280 U
TLS-5 0-0.5	'0-0.5	8/21/2001							0.180 U	0.180 U	0.180 U
TLS-5-8-10	'8-10	9/26/2001							0.260 U	0.260 U	0.260 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Chloropyrene	1-Docosene	1h-Benzotriazole	1-Methylnaphthalene	1-Nonadecanol	1-Phenanthrenecarboxylic Acid, 1,2	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001							0.220 U	0.220 U	0.220 U
TLS-6-3-5	'3-5	9/26/2001							22.0 U	22.0 U	22.0 U
TLS-7 0-.5	'0-0.5	8/21/2001							0.250 U	0.250 U	0.250 U
TLS-8-0-0.5	'0-0.5	9/7/2001							0.190 U	0.190 U	0.190 U
TLS-8-6-8	'6-8	9/7/2001							0.220 U	0.220 U	0.220 U
TLS-9 0-.5	'0-0.5	8/21/2001							0.910 U	0.910 U	0.910 U
TP-105	'0-0	6/8/2007							0.0500 U	0.0280 U	0.0560 U
TP-105A	'0-0	6/8/2007							0.0500 U	0.0280 U	0.0560 U
TP-106-A	'0-0	6/8/2007							0.0510 U	0.0290 U	0.0570 U
TP-106-B	'0-0	6/8/2007							0.0500 U	0.0280 U	0.0560 U
WWT-1-0-0.5	'0-0.5	7/19/2001							0.980 U	0.980 U	0.980 U
WWT-101-15-17	'15-17	11/6/2006							0.0620 U	0.0350 U	0.0690 U
WWT-101-21-23	'21-23	11/6/2006							0.0590 U	0.0330 U	0.0660 U
WWT-1-12-14	'12-14	8/23/2001							13.0 U	13.0 U	13.0 U
WWT-2-0-0.5	'0-0.5	8/23/2001							0.180 U	0.180 U	0.180 U
WWT-2-12-14	'12-14	8/23/2001							0.630 U	0.630 U	0.630 U
WWT-3-0-0.5	'0-0.5	8/23/2001							0.900 U	0.900 U	0.900 U
WWT-3-12-14	'12-14	8/23/2001							0.390 U	0.390 U	0.390 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			14000	1400	3			3			
12K-B1-0.5-2	'0.5-2	9/6/2001	0.2100 U	0.8500 U	0.0850 U			0.0850 U			0.0850 U
12K-B1-0-0.5	'0-0.5	9/6/2001	0.2000 U	0.7900 U	0.0790 U		2.4000 JN	0.0790 U			0.0790 U
12K-B2-0.5-2	'0.5-2	9/6/2001	0.2000 U	0.7900 U	0.0790 U			0.0790 U			0.0790 U
12K-B2-0-0.5	'0-0.5	9/6/2001	0.2000 U	0.8100 U	0.0810 U			0.0810 U			0.0810 U
150K-1-0.5-2	'0.5-2	9/10/2001	0.1900 U	0.7700 U	0.0770 U			0.0770 U			0.0770 U
150K-1-0-0.5	'0-0.5	9/10/2001	1.0000 U	4.0000 U	0.4000 U			0.4000 U			0.4000 U
230-B1-0.5	'0-0.5	10/2/2001	0.2000 U	0.7900 U	0.0790 U			0.0790 U			0.0790 U
230-B10-0-0.5	'0-0.5	8/30/2001	0.2500 U	0.9900 U	0.0990 U			0.0990 U			0.0990 U
230-B10-1.5-2	'1.5-2	8/30/2001	0.2100 U	0.8600 U	0.0860 U			0.0860 U			0.0860 U
230-B11-0-0.5	'0-0.5	8/30/2001	0.1800 U	0.7200 U	0.0720 U			0.0720 U			0.0720 U
230-B11-1.5-2	'1.5-2	8/30/2001	0.1800 U	0.7200 U	0.0720 U			0.0720 U			0.0720 U
230-B1-4-6	'4-6	10/2/2001	0.9800 U	3.9000 U	256.0000			196.0000			0.3900 U
230-B2-0-0.5	'0-0.5	8/30/2001	0.2000 U	0.8000 U	0.0800 U			0.0800 U			0.3270
230-B2-1.5-2	'1.5-2	8/30/2001	0.1800 U	0.7200 U	0.0720 U			0.0720 U			0.1320
230-B3-0-0.5	'0-0.5	8/30/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0760 U
230-B3-1.5-2	'1.5-2	8/30/2001	0.200 U	0.780 U	0.0780 U			0.0780 U			0.171
230-B4-0-0.5	'0-0.5	8/30/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
230-B4-1.5-2	'1.5-2	8/30/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0760 U
230-B5-0-0.5	'0-0.5	9/13/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.185
230-B5-1.5-2	'1.5-2	9/13/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
230-B6 0-0.5	'0-0.5	8/22/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0760 U
230-B6 1.5-2	'1.5-2	8/22/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0760 U
230-B7 0-0.5	'0-0.5	8/22/2001	0.200 U	0.810 U	0.0857			0.0810 U			0.0810 U
230-B7 1.5-2	'1.5-2	8/22/2001	0.200 U	0.820 U	0.0820 U			0.0820 U			0.0820 U
230-B8 1.5-2	'1.5-2	8/22/2001	0.210 U	0.830 U	0.0830 U			0.0830 U			0.0830 U
230-B9 0-0.5	'0-0.5	8/22/2001	0.180 U	0.710 U	0.0710 U			0.0710 U			0.0710 U
230-B9 0-0.5	'0-0.5	8/22/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0770 U
230-B9 1.5-2	'1.5-2	8/22/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
231-B1-0-0.5	'0-0.5	10/5/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0847
231-B10-0-0.5	'0-0.5	9/17/2001	0.210 U	0.830 U	0.0830 U			0.0830 U			0.0830 U
231-B11-0-0.5	'0-0.5	9/19/2001	0.230 U	0.940 U	0.0940 U			0.0940 U			0.0940 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001	0.210 U	0.850 U	0.0850 U			0.0850 U			0.117
231-B12-0-0.5	'0-0.5	9/17/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
231-B13-0-0.5	'0-0.5	9/19/2001	0.960 U	3.90 U	0.390 U			0.390 U			0.390 U
231-B13-8-10	'9-10	9/27/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0222 J
231-B14-0-0.5	'0-0.5	9/19/2001	0.200 U	0.820 U	0.0820 U			0.0820 U			0.0820 U
231-B2-0.5-2	'0.5-2	8/22/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.314
231-B2-0-0.5	'0-0.5	8/22/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.196
231-B3-0-0.5	'0-0.5	8/22/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.104
231-B4-0-0.5	'0-0.5	8/30/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.166
231-B4-6-8	'6-8	9/27/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.225
231-B5-0.5-2	'0.5-2	9/19/2001	0.210 U	0.840 U	0.0840 U			0.0840 U			0.565
231-B6-0-0.5	'0-0.5	9/27/2001	0.230 U	0.910 U	0.0910 U			0.0910 U			1.34
231-B6-4-6	'4-6	9/27/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
231-B7-0-0.5	'0-0.5	9/13/2001	1.00 U	4.10 U	0.410 U			0.410 U			0.410 U
231-B8-0-0.5	'0-0.5	9/27/2001	0.390 UJ	1.60 UJ	0.160 UJ			0.160 UJ			0.0421 J
231-B8-8-10	'8-10	9/27/2001	16.0 U	65.0 U	6.50 U			6.50 U			7.48
231-B9-0.5-2	'0.5-2	9/27/2001	0.230 U	0.940 U	0.0940 U			0.0940 U			0.101
231-B9-0-0.5	'0-0.5	9/27/2001	1.20 U	4.70 U	0.470 U			0.470 U			0.470 U
240-1-0-0.5	'0-0.5	9/26/2001	0.200 U	0.810 U	0.0810 U			0.0810 U			0.269
240-1-8-10	'8-10	10/1/2001	0.200 U	0.810 U	0.0810 U			0.0810 U			0.0810 U
5K-B1-0-0.5	'0-0.5	10/1/2001	1.00 U	4.10 U	0.410 U			0.410 U			0.410 U
5K-B2-0-0.5	'0-0.5	8/31/2001	0.180 U	0.710 U	0.0710 U			0.0710 U			0.0710 U
5K-B2-8-10	'8-10	8/31/2001	0.200 U	0.820 U	0.0820 U			0.0820 U			0.129
5K-B3-0-0.5	'0-0.5	9/26/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
5K-B4-0-0.5	'0-0.5	10/1/2001	1.20 U	4.60 U	0.460 U			0.460 U			0.262 J
5K-B4-4-6	'4-6	10/1/2001	1.40 U	5.50 U	0.550 U	14.0 JN		0.550 U			0.423 J
5K-B5-0-0.5	'0-0.5	8/31/2001	0.200 U	0.780 U	0.0780 U			0.0780 U			76.8
5K-B5-4-6	'4-6	9/26/2001	0.220 U	0.870 U	0.0870 U			0.0870 U			5.53
AB-1-0-0.5	'0-0.5	9/4/2001	0.200 U	0.780 U	0.0780 U			0.0780 U			37.0
AB-2-0.5-2	'0.5-2	9/4/2001	0.220 U	0.870 U	0.0870 U			0.0870 U			2.26
AB-2-0-0.5	'0-0.5	9/4/2001	0.200 U	0.810 U	0.0810 U			0.0810 U			0.0926
ADN-1-0-0.5	'0-0.5	9/5/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0760 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001	0.240 U	0.960 U	0.0960 U			0.0960 U			0.810
ADN-2-0-0.5	'0-0.5	9/5/2001	0.200 U	0.820 U	0.0820 U			0.0820 U			0.0820 U
ADN-2-10-11	'10-11	9/27/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
ADS-1-0-.5	'0-0.5	7/17/2001	0.940 U	3.70 U	0.370 U			0.370 U			0.370 U
ADS-10-0-0.5	'0-2	7/18/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0770 U
ADS-101-0-1	'0-1	12/5/2006	0.0990 U	0.0590 U	0.0450 U			0.0440 U			0.0540 U
ADS-101-1-3	'1-3	12/5/2006	0.0970 U	0.0580 U	0.0440 U			0.0430 U			0.0530 U
ADS-102-0-1.5	'0-2	12/5/2006	0.0960 U	0.0570 U	0.0430 U			0.0430 U			0.0520 U
ADS-102-7-8	'4-8	12/5/2006	0.100 U	0.0610 U	0.0470 U			0.0460 U			0.0560 U
ADS-10-4-6	'4-6	7/18/2001	0.240 U	0.950 U	0.0950 U			0.0950 U			0.0950 U
ADS-11-0-0.5	'0-2	7/18/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0760 U
ADS-12-0.5-2	'0.5-2	7/18/2001	0.220 U	0.870 U	0.0870 U			0.0870 U			0.0870 U
ADS-12-0-0.5	'0-0.5	7/18/2001	0.210 U	0.850 U	0.0850 U			0.0850 U			0.0850 U
ADS-2-0-0.5	'0-0.5	7/18/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
ADS-2-4-6	'4-6	7/18/2001	0.200 U	0.810 U	0.0810 U			0.0810 U			0.0810 U
ADS-3-0-0.5	'0-0.5	7/18/2001	0.190 U	0.780 U	0.0780 U			0.0780 U			0.0550 J
ADS-4-0-0.5	'0-2	7/18/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.156
ADS-4-12-14	'12-14	7/18/2001	0.210 U	0.850 U	0.0850 U			0.0850 U			0.0850 U
ADS-5-0-0.5	'0-0.5	7/18/2001	0.900 U	3.60 U	0.360 U			0.360 U			0.360 U
ADS-5-4-6	'4-6	9/27/2001	0.190 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
ADS-6-0.5-2	'0.5-2	7/18/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.297
ADS-6-0-0.5	'0-0.5	7/18/2001	0.950 U	3.80 U	0.380 U			0.380 U			0.380 U
ADS-7-0-.5	'0-0.5	7/17/2001	0.900 U	3.60 U	0.360 U			0.360 U			0.360 U
ADS-8-0-0.5	'0-0.5	7/18/2001	0.210 U	0.820 U	0.0820 U			0.0820 U			0.0820 U
ADS-8-4-6	'4-6	7/18/2001	0.210 U	0.830 U	0.0830 U			0.0830 U			0.0830 U
ADS-9-0-0.5	'0-0.5	7/18/2001	0.220 U	0.860 U	0.0860 U			0.0860 U			0.0860 U
BLIND DUP	'0-0	8/21/2001	0.180 U	0.710 U	0.0710 U			0.0710 U			0.0710 U
BSL-10-0-1	'0-1	9/21/2001	0.250 U	0.990 U	0.0990 U			0.0990 U			0.0990 U
BSL-1-0-1	'0-1	9/20/2001	0.200 U	0.790 U	0.0790 U			0.0790 U			0.0790 U
BSL-11-0-1	'0-1	9/26/2001	0.240 U	0.960 U	0.0960 U			0.0960 U			0.0960 U
BSL-12-0-1	'0-1	9/26/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0760 U
BSL-1-4-6	'4-6	9/20/2001	0.240 U	0.980 U	0.0980 U			0.0980 U			0.0980 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001	0.250 U	1.00 U	0.100 U			0.100 U			0.100 U
BSL-3-0-0.5	'0-0.5	9/20/2001	0.180 U	0.710 U	0.0710 U			0.0710 U			0.0710 U
BSL-4-0-1	'0-0.5	9/21/2001	0.220 U	0.860 U	0.0860 U			0.0860 U			0.0860 U
BSL-4-4-6	'4-6	9/21/2001	0.350 U	1.40 U	0.140 U			0.140 U			0.140 U
BSL-5-0-.5	'0-0.5	9/21/2001	0.200 U	0.820 U	0.0820 U			0.0820 U			0.0820 U
BSL-6-0-1	'0-1	9/26/2001	0.270 U	1.10 U	0.110 U			0.110 U			0.110 U
BSL-6-1-2	'1-2	9/26/2001	0.320 U	1.30 U	0.130 U			0.130 U			0.130 U
BSL-7-0-.5	'0-0.5	9/21/2001	0.240 U	0.980 U	0.0980 U			0.0980 U			0.0980 U
BSL-8-0-1	'0-1	9/26/2001	0.300 U	1.20 U	0.120 U			0.120 U			0.120 U
BSL-9-.5-2	'0.5-2	9/21/2001	0.270 U	1.10 U	0.110 U			0.110 U			0.110 U
BSL-9-0-.5	'0-0.5	9/21/2001	0.210 U	0.840 U	0.0840 U			0.0840 U			0.0840 U
BT-B1-0-0.5	'0-0.5	9/18/2001	0.200 U	0.810 U	0.0810 U			0.0810 U			0.0810 U
BT-B2-0.5-2	'0.5-2	9/18/2001	0.200 U	0.790 U	0.0790 U			0.0790 U			0.0790 U
BT-B2-0-0.5	'0-0.5	9/18/2001	0.220 U	0.860 U	0.0860 U			0.0860 U			0.0860 U
BT-B3-0-0.5	'0-0.5	9/18/2001	0.960 U	3.90 U	0.390 U			0.390 U			0.390 U
BT-B4-0.5-2	'0.5-2	8/30/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.137
BT-B4-0-0.5	'0-0.5	8/30/2001	0.840 U	3.40 U	0.340 U			0.340 U			0.340 U
BT-B5-0-.5	'0-0.5	10/2/2001	0.200 U	0.810 U	0.0810 U			0.0810 U			0.0810 U
BT-B6-0.5-2	'0.5-2	9/17/2001	0.220 U	0.880 U	0.0880 U			0.0880 U			0.114
BT-B6-0-0.5	'0-0.5	9/17/2001	0.860 U	3.40 U	0.340 U			0.340 U			0.340 U
CF-1-0-0.5	'0-0.5	8/31/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0748
CF-1-2-4	'2-4	8/31/2001	0.190 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
CF-2-0-0.5	'0-0.5	8/28/2001	0.210 U	0.820 U	0.0820 U			0.0820 U			0.0820 U
CF-3-0.5-2	'0.5-2	8/28/2001	0.330 U	1.30 U	0.130 U			0.130 U			0.130 U
CF-3-0-0.5	'0-0.5	8/28/2001	0.250 U	0.990 U	0.0990 U			0.0990 U			0.0990 U
CF-4-0-0.5	'0-0.5	8/28/2001	0.220 U	0.870 U	0.0870 U			0.0870 U			0.0870 U
CF-5-0-0.5	'0-0.5	8/28/2001	0.170 U	0.700 U	0.0700 U			0.0700 U			0.0700 U
CF-5-4-6	'4-6	8/28/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
CF-6-0-0.5	'0-0.5	8/28/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0770 U
CF-7-0-0.5	'0-0.5	8/28/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
CF-7-4-6	'4-6	8/28/2001	0.180 U	0.700 U	0.0700 U			0.0700 U			0.0700 U
CF-8-0-0.5	'0-0.5	8/28/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0770 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001	0.180 U	0.720 U	0.0720 U			0.0720 U			0.0720 U
CF-9-0-0.5	'0-0.5	8/31/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.147
DC-B12-0-0.5	'0-0.5	10/3/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.129
DC-B12-2-4	'2-4	10/3/2001	0.180 U	0.730 U	0.0730 U			0.0730 U			0.0730 U
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.180 U	0.730 U	0.0730 U			0.0730 U			0.0730 U
DC-SS11-0-0.5	'0-0.5	9/17/2001	0.920 U	3.70 U	0.370 U			0.370 U			0.370 U
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.860 U	3.50 U	0.350 U			0.350 U			0.350 U
DC-SS15-0-0.5	'0-0.5	9/17/2001	1.00 U	4.10 U	0.410 U			0.410 U			0.410 U
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.210 U	0.850 U	0.0850 U			0.0850 U			0.0850 U
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.220 U	0.880 U	0.0880 U			0.0880 U			0.0880 U
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0760 U
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0426 J
DSP-1-0-0.5	'0-0.5	10/3/2001	0.200 U	0.820 U	0.0820 U			0.0820 U			0.0820 U
DSP-1-4-6	'4-6	11/19/2001	0.210 U	0.820 U	0.0820 U			0.0820 U			0.0820 U
DSP-2-0-0.5	'0-0.5	9/4/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
DSP-3-0-0.5	'0-0.5	9/4/2001	0.940 U	3.80 U	0.380 U		1.30 JN	0.380 U	2.60 JN		0.380 U
DSP-3-2-4	'2-4	9/4/2001	0.210 U	0.830 U	0.0830 U			0.0830 U			0.0830 U
DSP-4-0-0.5	'0-0.5	9/4/2001	0.210 U	0.850 U	0.0850 U			0.0850 U			0.0850 U
DSP-4-4-6	'4-6	9/26/2001	0.210 U	0.860 U	0.0860 U			0.0860 U			0.0860 U
DUP-01-010824	'0-0.5	8/24/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0770 U
DUP-01-010831	'2-4	8/31/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
DUP-01-010904	'0-0.5	9/4/2001	0.920 U	3.70 U	0.370 U			0.370 U			0.370 U
DUP-01-010905	'8-10	9/5/2001	0.210 U	0.840 U	0.0840 U			0.0840 U			0.628
DUP-01-010906	'0-8	9/6/2001	0.760 U	3.10 U	0.310 U			0.310 U			0.310 U
DUP-01-010913	'0-0.5	9/13/2001	0.960 U	3.80 U	0.380 U			0.380 U			0.380 U
DUP-01-010917	'0-0.5	9/17/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0770 U
DUP-01-010926	'1-2	9/26/2001	0.320 U	1.30 U	0.130 U			0.130 U			0.130 U
DUP-01-010927	'4-6	9/27/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
DUP-01-021001	'0-0	10/2/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
DUP-01-08 2201	'1.5-2	8/22/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0770 U
DUP-01-170402	'0-0	4/17/2002	0.460 U	1.80 U	0.180 U			0.180 U			0.180 U
DUP-02-010913	'0-0.5	9/13/2001	1.10 U	4.30 U	0.430 U			0.430 U			0.430 U
DUP-02-010921	'0-1	9/21/2001	0.230 U	0.910 U	0.0910 U			0.0910 U			0.0910 U
DUP-02-010926	'4-6	9/26/2001	0.220 U	0.900 U	0.0900 U			0.0900 U			0.463
DUP060807	'0-0	6/8/2007	0.0880 U	0.0520 U	0.0400 U			0.0390 U			0.0480 U
DUP-1-010828	'0-0.5	8/28/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0770 U
DUP-1-010921	'0-0.5	9/21/2001	0.260 U	1.00 U	0.100 U			0.100 U			0.100 U
DUP110606	'15-17	11/6/2006	0.110 U	0.0640 U	0.0490 U			0.0480 U			0.0590 U
DUP112006	'16-18	11/20/2006	0.170 U	0.100 U	0.0760 U			0.0750 U			0.0920 U
DUP112106	'10-12	11/21/2006	0.180 U	0.100 U	0.0790 U			0.0780 U			0.0960 U
DUP-120506	'0-4	12/5/2006	0.260 U	0.150 U	0.120 U			0.120 U			0.140 U
DUP-120606	'0-4	12/6/2006	0.0880 U	0.0520 UJ	0.0400 U			0.0390 U			0.0480 U
DUPE071801	'0-0.5	7/18/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
EC-1	'0-1	8/21/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0760 U
EC-2	'0-1	8/21/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
EC-3	'0-1	8/21/2001	0.180 U	0.710 U	0.0710 U			0.0710 U			0.0710 U
EC-4	'0-1	8/21/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
EC-5	'0-1	8/21/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
EC-6	'0-1	8/21/2001	0.210 U	0.820 U	0.0820 U			0.0820 U		0.200 JN	0.0820 U
EC-7	'0-1	8/21/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
EC-8	'0-1	8/21/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
EC-9	'0-1	8/21/2001	0.220 U	0.870 U	0.0870 U			0.0870 U			0.0870 U
ESR-1-0-1	'0-0.5	9/4/2001	0.180 U	0.710 U	0.0710 U			0.0710 U			0.0710 U
ESR-1-4-6	'4-6	9/4/2001	0.210 U	0.830 U	0.0830 U			0.0830 U			0.0830 U
HB-101A	'17-17	3/5/2007	1.73	0.0590 U	0.0450 U			0.0440 U			0.0540 U
HB-102A	'0-0	3/13/2007	0.150 U	0.0910 U	0.0690 U			0.0680 U			0.0840 U
HB-102B	'0-0	3/14/2007	0.100 U	0.0620 U	0.0470 U			0.0460 U			0.0570 U
HB-102C	'0-0	3/14/2007	0.0970 U	0.0580 U	0.0440 U			0.0430 U			0.0530 U
H-B-103A	'17-17	2/20/2007	0.140 U	0.0800 U	0.0610 U			0.0600 U			0.0740 U
H-B-104A	'17-17	2/23/2007	0.110 U	0.0630 U	0.0480 U			0.0470 U			0.0580 U
H-B-104B	'17-17	2/23/2007	0.0980 U	0.0580 U	0.0450 U			0.0440 U			0.0540 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007	0.337	0.0640 U	0.0490 U			0.0480 U			0.0590 U
H-B-104D	'17-17	2/27/2007	0.100 U	0.0590 U	0.0450 U			0.0440 U			0.0550 U
H-B-104E	'17-17	2/27/2007	0.100 U	0.0600 U	0.0460 U			0.0450 U			0.0550 U
H-B-105C	'17-17	2/8/2007	0.0960 U	0.0570 U	0.0440 U			0.0430 U			0.0530 U
H-B-105D	'17-17	2/8/2007	0.100 U	0.0620 U	0.0470 U			0.0470 U			0.0570 U
H-B-105E	'0-0	2/8/2007	0.100 U	0.0620 U	0.0470 U			0.0460 U			0.0570 U
HB-1A	'6.75-6.75	4/18/2002	0.135 J	1.20 U	0.120 U			0.120 U			0.120 U
HB-3A	'5.25-5.25	4/17/2002	0.520 U	2.10 U	0.210 U			0.210 U			0.210 U
HB-3B	'4.5-4.5	4/17/2002	0.200 U	0.780 U	0.0780 U			0.0780 U			0.0780 U
HB-3C	'4.5-4.5	4/18/2002	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0770 U
HB-3D	'4.5-4.5	4/18/2002	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
HB-4A	'5.33-5.33	4/19/2002	0.0705 J	0.780 U	0.0780 U			0.0780 U			0.0780 U
HB-5A	'3-3	4/22/2002	0.210 U	0.830 U	0.0830 U			0.0830 U			0.0830 U
HB-7A	'5-5	4/19/2002	0.210 U	0.830 U	0.0830 U			0.0830 U			0.0830 U
HB-8A	'3-3	4/23/2002	0.200 U	0.800 U	0.0800 U			0.0800 U			0.177
HB-8B	'4.83-4.83	4/23/2002	0.200 U	0.790 U	0.0790 U			0.0790 U			0.0790 U
HB-8C	'5.5-5.5	4/23/2002	0.0788 J	0.820 U	0.0820 U			0.0820 U			0.134
HB-9A	'4.75-4.75	4/24/2002	0.210 U	0.830 U	0.0830 U			0.0830 U			1.73
HF-B1-0-0.5	'0-0.5	9/10/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
HF-B1-8-10	'8-10	9/10/2001	0.230 U	0.930 U	0.0930 U			0.0930 U			0.0930 U
HF-B2-0-0.5	'0-0.5	9/4/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
HF-B2-4-6	'4-6	9/4/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
HF-B3-0-.5	'0-0.5	10/2/2001	0.190 U	0.740 U	0.0740 U			0.0740 U			22.3
HF-B3-8-10	'8-10	10/2/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0431 J
IB-1-0-2	'0-2	4/8/2002	0.190 U	0.780 U	0.0780 U			0.0780 U			0.0521 J
IB-1-4-6	'4-6	4/8/2002	0.190 U	0.780 U	0.0780 U			0.0780 U			0.0780 U
IB-2-12-14	'12-14	4/8/2002	0.210 U	0.840 U	0.0840 U			0.0840 U			0.0840 U
IB-2-4-6	'4-6	4/8/2002	0.190 U	0.780 U	0.0780 U			0.0780 U			0.0780 U
IB-3-4-6	'4-6	4/8/2002	0.210 U	0.850 U	0.0850 U			0.0850 U			4.70
IB-3-8-10	'8-10	4/8/2002	0.220 U	0.890 U	0.0890 U			0.0890 U			19.2
LB-101-0-1	'0-1	12/6/2006	0.0910 U	0.0540 U	0.0410 U			0.0410 U			0.0500 U
LB-101-1-3	'1-3	12/6/2006	0.0870 U	0.0520 U	0.0400 U			0.0390 U			0.0480 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006	0.0950 U	0.0560 U	0.0430 U			0.0420 U			0.0520 U
LB-102-1-3	'3-7	12/6/2006	0.0940 U	0.0560 U	0.0430 U			0.0420 U			0.0510 U
LB-103-0-1	'0-1	12/6/2006	0.0910 U	0.0540 U	0.0410 U			0.0410 U			0.0500 U
LB-103-5-7	'5-7	12/6/2006	0.100 U	0.0620 U	0.0470 U			0.0470 U			0.0570 U
LHP-101-0-1	'0-1	12/4/2006	0.470 U	0.280 U	0.210 U			0.210 U			0.260 U
LHP-101-5-8	'4-8	12/4/2006	0.340 U	0.200 U	0.150 U			0.150 U			0.180 U
LHP-102-0-1	'0-1	12/5/2006	0.0960 U	0.0570 U	0.0430 U			0.0430 U			0.0520 U
LHP-102-7-9	'7-9	12/5/2006	0.120 U	0.0700 U	0.0540 U			0.0530 U			0.0650 U
LHP-103-0-1	'0-1	12/5/2006	0.480 U	0.280 U	0.220 U			0.210 U			0.260 U
LHP-103-1-3	'1-3	12/5/2006	0.100 U	0.0620 U	0.0470 U			0.0460 U			0.0570 U
LHP-104-0-1	'0-1	12/5/2006	0.0890 U	0.0530 U	0.0400 U			0.0400 U			0.0490 U
LHP-104-7-9	'4-8	12/5/2006	0.100 U	0.0590 U	0.0450 U			0.0440 U			0.0550 U
LHP-105-0-1	'0-1	12/5/2006	0.450 U	0.260 U	0.200 U			0.200 U			0.240 U
LHP-105-1-3	'1-3	12/5/2006	0.0900 U	0.0530 U	0.0410 U			0.0400 U			0.0490 U
LHP-106-0-1	'0-1	12/4/2006	0.440 U	0.260 U	0.200 U			0.200 U			0.240 U
LHP-106-1-3	'1-3	12/4/2006	0.530 U	0.320 U	0.240 U			0.240 U			0.290 U
LHP-107-0-1	'0-1	12/5/2006	0.0920 U	0.0540 U	0.0420 U			0.0410 U			0.0500 U
LHP-107-5-7	'4-8	12/5/2006	0.0980 U	0.0580 U	0.0440 U			0.0430 U			0.0530 U
LHP-108-0-1	'0-1	12/6/2006	0.0960 U	0.0570 U	0.0430 U			0.0430 U			0.0520 U
LHP-108-3-7	'3-7	12/6/2006	0.100 U	0.0610 U	0.0470 U			0.0460 U			0.0570 U
LHP-109-0-1	'0-1	12/6/2006	0.0980 U	0.0580 U	0.0440 U			0.0430 U			0.0530 U
LHP-109-7-9	'7-9	12/6/2006	0.120 U	0.0700 U	0.0530 U			0.0520 U			0.0640 U
LHP-110-0-1	'0-1	12/4/2006	0.970 U	0.580 UJ	0.440 U			0.430 U			0.530 U
LHP-111-0-1	'0-1	12/4/2006	0.0950 U	0.0570 U	0.0430 U			0.0420 U			0.0520 U
LHP-112-0-1	'0-1	12/4/2006	0.0960 U	0.0570 U	0.0440 U			0.0430 U			0.0530 U
LHP-113-0-1	'0-1	12/4/2006	0.0900 U	0.0540 U	0.0410 U			0.0400 U			0.0490 U
LHP-114-0-1	'0-1	12/4/2006	0.0930 U	0.0550 U	0.0420 U			0.0410 U			0.0510 U
LHP-115-0-1	'0-1	12/4/2006	0.0890 U	0.0530 U	0.0400 U			0.0400 U			0.0490 U
LHP-116-0-1	'0-1	12/4/2006	0.0960 U	0.0570 U	0.0430 U			0.0430 U			0.0520 U
LHP-117-0-1	'0-1	12/4/2006	0.0990 U	0.0590 U	0.0450 U			0.0440 U			0.0540 U
LHP-118-0-1	'0-1	12/4/2006	0.500 U	0.300 U	0.230 U			0.220 U			0.280 U
LHP-119-0-1	'0-1	12/4/2006	0.0980 U	0.0580 U	0.0450 U			0.0440 U			0.0540 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006	0.110 U	0.0650 U	0.0500 U			0.0490 U			0.0600 U
LHP-121-0-1	'0-1	12/6/2006	0.0960 U	0.0570 U	0.0440 U			0.0430 U			0.0530 U
LHP-122-0-1	'0-1	12/6/2006	0.0910 U	0.0540 U	0.0410 U			0.0410 U			0.0500 U
LHP-123-0-1	'0-1	12/4/2006	0.0980 U	0.0580 U	0.0440 U			0.0430 U			0.0530 U
LHP-124-.5-2	'0.5-2	10/27/2006	0.0990 U	0.0590 U	0.0450 U			0.0440 U			0.0540 U
LHP-124-10-12	'10-12	10/31/2006	0.160 U	0.0940 UJ	0.0720 U			0.0700 U			0.0860 U
LHP-124-2-4	'2-4	10/27/2006	0.100 U	0.0590 U	0.0450 U			0.0450 U			0.0550 U
LHP-124-28-30	'28-30	10/31/2006	0.120 U	0.0700 UJ	0.0540 U			0.0530 U			0.0650 U
LHP-125-.5-2	'0.5-2	10/27/2006	0.0960 U	0.0570 U	0.0440 U			0.0430 U			0.0530 U
LHP-125-10.5-12	'10.5-12	11/1/2006	0.110 U	0.0650 UJ	0.0500 U			0.0490 U			0.0600 U
LHP-125-12-14	'12-14	11/1/2006	0.0990 U	0.0590 UJ	0.0450 U			0.0440 U			0.0540 U
LHP-125-4-6	'4-6	10/27/2006	0.0940 U	0.0560 U	0.0430 U			0.0420 U			0.0520 U
LHP-126-10.5-12	'10.5-12	11/1/2006	0.410 UJ	0.240 UJ	0.190 UJ			0.180 UJ			0.220 UJ
LHP-126-14-16	'14-16	11/1/2006	0.100 U	0.0600 UJ	0.0460 U			0.0450 U			0.0560 U
LHP-126-2-4	'2-4	10/26/2006	0.0940 U	0.0560 U	0.0430 U			0.0420 U			0.0520 U
LHP-126-8-10	'9-10	10/26/2006	0.100 U	0.0620 U	0.0470 U			0.0470 U			0.0570 U
LHP-127-0-1	'0-1	12/6/2006	0.0910 U	0.0540 U	0.0410 U			0.0400 U			0.0500 U
LHP-127-3-5	'3-5	12/6/2006	0.0900 U	0.0530 UJ	0.0410 U			0.0400 U			0.0490 U
LHP-128-0-1	'0-4	12/6/2006	0.0880 U	0.0520 UJ	0.0400 U			0.0390 U			0.0480 U
LHP-128-7-8	'17-17	12/6/2006	0.120 U	0.0700 UJ	0.0530 U			0.0520 U			0.0640 U
LP-1-0-0.5	'0-0.5	8/27/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
LP-10-0.5-2	'0.5-2	8/27/2001	0.210 U	0.840 U	0.0840 U			0.0840 U			0.0443 J
LP-10-0-0.5	'0-0.5	8/27/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0423 J
LP-101-11-13	'11-13	11/2/2006	0.160 U	0.0940 U	0.0720 U			0.0710 U			0.0870 U
LP-101-14-16	'14-16	11/2/2006	0.140 U	0.0820 U	0.0630 U			0.0620 U			0.0760 U
LP-101-26-28	'26-28	11/2/2006	0.0990 U	0.0590 U	0.0450 U			0.0440 U			0.0540 U
LP-101-50-52	'50-52	11/2/2006	0.0970 U	0.0580 U	0.0440 U			0.0430 U			0.0530 U
LP-11-0-0.5	'0-0.5	8/27/2001	0.210 U	0.840 U	0.0840 U			0.0840 U			0.0840 U
LP-12-0-0.5	'0-0.5	8/27/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
LP-12-4-6	'4-6	8/27/2001	0.180 U	0.730 U	0.0730 U			0.0730 U			0.0730 U
LP-13-0-0.5	'0-0.5	8/24/2001	0.210 U	0.840 U	0.0840 U			0.0840 U			0.0330 J
LP-14-0.5-2	'0.5-2	8/24/2001	0.180 U	0.710 U	0.0710 U			0.0710 U			0.0544 J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001	0.920 U	3.70 U	0.370 U			0.370 U			0.370 U
LP-15-0-0.5	'0-0.5	8/24/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0243 J
LP-16-0.5-2	'0.5-2	8/27/2001	0.910 U	3.60 U	0.360 U			0.360 U			0.360 U
LP-16-0-0.5	'0-0.5	8/27/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0423 J
LP-2-0.5-2	'0.5-2	8/28/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			1.77
LP-2-0-0.5	'0-0.5	8/28/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			5.04
LP-3-0-0.5	'0-0.5	8/27/2001	0.180 U	0.710 U	0.0710 U			0.0710 U			0.0710 U
LP-4 .5-2	'0.5-2	8/21/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.170
LP-4 0-.5	'0-0.5	8/21/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0467 J
LP-5-0-0.5	'0-0.5	8/27/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.198
LP-6-0-0.5	'0-0.5	8/27/2001	0.180 U	0.730 U	0.0730 U			0.0730 U			0.101
LP-6-4-6	'4-6	8/27/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
LP-7-0-0.5	'0-0.5	8/24/2001	0.200 U	0.780 U	0.0780 U			0.0780 U			0.493
LP-8-0-0.5	'0-0.5	8/24/2001	0.200 U	0.810 U	0.0810 U			0.0810 U			0.0810 U
LP-8-10-12	'10-12	8/24/2001	0.280 U	1.10 U	0.110 U			0.110 U			0.110 U
LP-9-0-0.5	'0-0.5	8/24/2001	0.920 U	3.70 U	0.370 U			0.370 U			0.370 U
MW-11D-12-14	'12-14	12/14/2006	0.150 U	0.0900 U	0.0690 U			0.0670 U			0.151
MW-11D-14-16	'14-16	12/14/2006	0.100 U	0.0600 U	0.0460 U			0.0450 U			0.0560 U
MW-11D-16-18	'16-18	12/14/2006	0.100 U	0.0600 U	0.0460 U			0.0450 U			0.0550 U
MW-14D-13-15	'13-15	11/14/2006	0.110 U	0.0650 U	0.0500 U			0.0490 U			0.0600 U
MW-14D-17-19	'17-19	11/14/2006	0.100 U	0.0600 U	0.0460 U			0.0450 U			0.0550 U
MW-16D-13-15	'13-15	11/17/2006	0.0980 U	0.0580 U	0.0440 U			0.0430 U			0.0530 U
MW-16D-17-19	'17-19	11/20/2006	0.100 U	0.0590 U	0.0450 U			0.0440 U			0.0550 U
MW-17D-15-17	'15-17	11/10/2006	0.160 J	0.0640 U	0.0490 U			0.0480 U			0.0590 U
MW-17D-17-19	'17-19	11/10/2006	0.100 U	0.0590 U	0.0450 U			0.0440 U			0.0550 U
MW-18D-13-15	'13-15	11/13/2006	0.110 U	0.0640 U	0.0490 U			0.0480 U			0.0590 U
MW-18D-17-19	'17-19	11/13/2006	0.0980 U	0.0580 U	0.0440 U			0.0440 U			0.0530 U
MW-20D-12-14	'12-14	11/9/2006	0.100 U	0.0620 U	0.0470 U			0.0460 U			0.0570 U
MW-20D-32-34	'32-32.9	11/10/2006	0.0980 U	0.0580 UJ	0.0440 U			0.0440 U			0.0540 U
MW-20D-36-38	'36-38	11/10/2006	0.100 U	0.0590 UJ	0.0450 U			0.0440 U			0.0550 U
MW-21D-13-15	'13-13.7	11/16/2006	0.110 U	0.0630 U	0.0480 U			0.0470 U			0.0580 U
MW-21D-15-17	'15-17	11/16/2006	0.100 U	0.0600 U	0.0460 U			0.0450 U			0.0550 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006	0.110 U	0.0630 U	0.0480 U			0.0470 U			0.0580 U
MW-23D-37-39	'37-37.9	11/15/2006	0.0970 U	0.0580 U	0.0440 U			0.0430 U			0.0530 U
MW-25D-10-12	'10-12	11/21/2006	0.180 U	0.110 U	0.0820 U			0.0800 U			0.0980 U
MW-25D-33-35	'33-35	12/18/2006	0.110 U	0.0640 U	0.0490 U			0.0480 U			0.0590 U
MW-26S-8-10	'8-10	10/26/2006	0.110 U	0.0670 U	0.0510 U			0.0500 U			0.845
MW-6D-0-2	'0-2	11/8/2006	0.0970 U	0.0580 U	0.0440 U			0.0430 U			0.0530 U
MW-6D-12-14	'12-14	11/8/2006	0.220 U	0.130 U	0.100 U			0.100 U			0.120 U
MW-6D-16-18	'16-18	11/20/2006	0.160 U	0.0940 U	0.0710 U			0.0700 U			0.0860 U
MW-6D-30-32	'30-32	11/21/2006	0.100 U	0.0600 U	0.0460 U			0.0450 U			0.0550 U
PCA-1-0-.5	'0-2	7/17/2001	0.900 U	3.60 U	0.360 U			0.360 U			0.360 U
PCA-1-4-6	'4-6	7/17/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
PCA-2-0-.5	'0-0.5	7/17/2001	0.180 U	0.730 U	0.0730 U			0.0730 U			0.0730 U
PCA-3-0-0.5	'0-0.5	9/13/2001	0.390 U	1.60 U	0.160 U			0.160 U			0.160 U
PCA-3-4-6	'4-6	9/13/2001	0.210 U	0.850 U	0.0850 U			0.0850 U			0.0850 U
PCA-4-0-0.5	'0-0.5	9/13/2001	0.950 U	3.80 U	0.380 U			0.380 U			0.380 U
PCA-4-4-6	'4-6	9/26/2001	0.210 U	0.830 U	0.0830 U			0.0830 U			0.0830 U
PCA-5-0.5-2	'0.5-2	9/7/2001	0.190 U	0.780 U	0.0780 U			0.0780 U			0.0780 U
PCA-5-0-0.5	'0-0.5	9/7/2001	0.210 U	0.850 U	0.0850 U			0.0850 U			0.0850 U
PCA-6-0-0.5	'0-0.5	9/7/2001	0.180 U	0.710 U	0.0710 U			0.0710 U			0.0710 U
RR-1 0-0.5	'0-0.5	8/22/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
RR-1 14-16	'14-16	8/22/2001	0.200 U	0.820 U	0.0820 U			0.0820 U			0.591
RR-10 0-.5	'0-0.5	10/12/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
RR-11 0-.5	'0-0.5	10/12/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
RR-12 0-.5	'0-0.5	10/12/2001	0.200 U	0.780 U	0.0780 U			0.0780 U			0.0780 U
RR-2-0-0.5	'0-0.5	9/13/2001	1.00 U	4.20 U	0.420 U			0.420 U			0.420 U
RR-2-8-10	'8-10	9/13/2001	0.250 U	0.990 U	0.0990 U			0.0990 U			0.0990 U
RR-3-0-0.5	'0-0.5	9/13/2001	0.180 U	0.720 U	0.0720 U			0.0720 U			0.0720 U
RR-4-0-0.5	'0-0.5	9/10/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
RR-4-6-8	'6-8	9/13/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0770 U
RR-5-0-0.5	'0-0.5	9/10/2001	0.170 U	0.690 U	0.0690 U			0.0690 U			0.0690 U
RR-6-0-0.5	'0-0.5	9/10/2001	0.180 U	0.720 U	0.0720 U			0.0720 U			0.0720 U
RR-6-8-10	'8-10	9/10/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0760 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001	0.190 U	0.760 U	0.0760 U			0.0760 U	0.790 JN		0.0760 U
RR-8-0-0.5	'0-0.5	9/26/2001	0.220 U	0.860 U	0.0860 U			0.0860 U			0.0860 U
RR-8-6-8	'6-8	9/26/2001	0.340 U	1.40 U	0.140 U			0.140 U			0.140 U
RR-9 0-.5	'0-0.5	10/12/2001	0.180 U	0.730 U	0.0730 U			0.0730 U			0.0730 U
SC-1	'0-1	8/21/2001	0.220 U	0.900 U	0.0900 U			0.0900 U			0.0900 U
SC-2	'0-1	8/22/2001	0.170 U	0.700 U	0.0700 U			0.0700 U			0.0700 U
SC-3	'0-1	8/22/2001	0.200 U	0.780 U	0.0780 U			0.0780 U			0.0780 U
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.190 U	0.770 U	0.0770 U			0.0770 U			0.0869
SILO-B1-6-8	'6-8	9/6/2001	0.740 U	3.00 U	0.300 U			0.300 U			0.300 U
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.900 U	3.60 U	0.360 U			0.360 U			0.360 U
SILO-B3-0-0.5	'0-0.5	9/6/2001	1.00 U	4.10 U	0.410 U			0.410 U			0.410 U
SILO-B3-6-8	'6-8	9/6/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
SILO-B4-0-0.5	'0-0.5	9/6/2001	1.00 U	4.20 U	0.420 U			0.420 U			0.420 U
SPR-1-0-0.5	'0-0.5	9/5/2001	0.960 U	3.80 U	0.380 U			0.380 U			0.380 U
SPR-1-8-10	'8-10	9/5/2001	0.260 U	1.00 U	0.100 U			0.100 U			0.100 U
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
SPR-2A-8-10	'8-10	7/19/2001	0.220 U	0.880 U	0.0880 U			0.0880 U			0.0880 U
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.180 U	0.720 U	0.0720 U			0.0720 U			0.0720 U
SPR-2B-10-12	'10-12	7/19/2001	0.250 U	1.00 U	0.100 U			0.100 U			0.100 U
SPR-3 0-.5	'0-0.5	8/21/2001	0.180 U	0.720 U	0.0720 U			0.0720 U			0.0720 U
SPR-3 4-6	'4-6	8/21/2001	0.210 U	0.860 U	0.0860 U			0.0860 U			0.0860 U
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.200 U	0.810 U	0.0810 U			0.0810 U			0.0810 U
SPR-4A-8-10	'8-10	7/19/2001	0.280 U	1.10 U	0.110 U			0.110 U			0.110 U
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
SPR-4B-4-6	'4-6	8/23/2001	0.200 U	0.800 U	0.0800 U			0.0800 U			0.0800 U
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.920 U	3.70 U	0.370 U			0.370 U			0.370 U
SPR-4C-4-6	'4-6	8/23/2001	0.220 U	0.860 U	0.0860 U			0.0860 U			0.0860 U
SPR-5-0-0.5	'0-0.5	9/5/2001	5.20 U	21.0 U	2.10 U			2.10 U			2.10 U
SPR-5-2-4	'2-4	9/5/2001	0.220 U	0.860 U	0.0860 U			0.0860 U			0.0860 U
SPR-6-0.5-2	'0.5-2	9/13/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.0750 U
SPR-6-0-0.5	'0-0.5	9/13/2001	0.170 U	0.680 U	0.0680 U			0.0680 U			0.0680 U
SR-1-0-.5	'0-0.5	7/17/2001	0.180 U	0.710 U	0.0710 U			0.0710 U			0.0710 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001	0.170 U	0.680 U	0.0680 U			0.0680 U			0.0680 U
ST-1-0-0.5	'0-0.5	9/5/2001	1.00 U	4.00 U	0.400 U			0.400 U			0.400 U
ST-2-0-0.5	'0-0.5	9/5/2001	1.00 U	4.00 U	0.400 U			0.400 U			0.400 U
ST-3-0-0.5	'0-0.5	9/4/2001	0.200 U	0.790 U	0.0790 U			0.0790 U			0.0790 U
ST-3-4-6	'4-6	9/4/2001	0.260 U	1.00 U	0.100 U			0.100 U			0.100 U
TES-1-0-1	'0-1	12/5/2006	0.490 U	0.290 U	0.220 U			0.220 U			0.270 U
TES-2-0-1	'0-1	12/4/2006	1.00 U	0.620 U	0.480 U			0.470 U			0.570 U
TES-3-0-1	'0-1	12/4/2006	0.520 U	0.310 U	0.240 U			0.230 U			0.290 U
TES-4-0-1	'0-1	12/5/2006	0.0940 U	0.0560 U	0.0430 U			0.0420 U			0.0520 U
TLN-1 .5-2	'0.5-2	8/20/2001	0.210 U	0.840 U	0.0840 U			0.0840 U			0.0840 U
TLN-1 0-.5	'0-0.5	8/20/2001	0.210 U	0.830 U	0.0830 U			0.0830 U			0.0830 U
TLN-2-0-0.5	'0-0.5	7/19/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
TLN-3-0-.5	'0-0.5	7/17/2001	0.860 U	3.40 U	0.340 U			0.340 U			0.340 U
TLN-3-2-4	'2-4	7/17/2001	0.190 U	0.780 U	0.0780 U			0.0780 U			0.0780 U
TLN-4 0-.5	'0-0.5	8/20/2001	0.170 U	0.690 U	0.0690 U			0.0690 U			0.0690 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.180 U	0.730 U	0.0730 U			0.0730 U			0.0730 U
TLN-5 .5-2	'0.5-2	8/20/2001	0.180 U	0.720 U	0.0720 U			0.0720 U			0.0720 U
TLN-5 0-.5	'0-0.5	8/20/2001	0.180 U	0.720 U	0.0720 U			0.0720 U			0.0720 U
TLN-5-4-6	'4-6	8/30/2001	0.180 U	0.730 U	0.0730 U			0.0730 U			0.0730 U
TLN-6 0-.5	'0-0.5	8/20/2001	0.180 U	0.720 U	0.0720 U			0.0720 U			0.0720 U
TLS-10 0-.5	'0-0.5	8/21/2001	0.190 U	0.780 U	0.0780 U			0.0780 U			0.0248 J
TLS-10 8-10	'8-10	8/21/2001	0.240 U	0.970 U	0.0970 U			0.0970 U			1.00
TLS-1-0-0.5	'0-0.5	9/5/2001	0.970 U	3.90 U	0.390 U			0.390 U			0.390 U
TLS-11-0-0.5	'0-0.5	9/7/2001	0.190 U	0.750 U	0.0750 U			0.0750 U			0.185
TLS-2-0-0.5	'0-0.5	9/7/2001	0.940 U	3.70 U	0.370 U			0.370 U			0.370 U
TLS-2-6-8	'6-8	9/7/2001	0.290 U	1.20 U	0.120 U			0.120 U			0.120 U
TLS-3 0-.5	'0-0.5	8/21/2001	0.180 U	0.740 U	0.0740 U			0.0740 U			0.0740 U
TLS-4-0-0.5	'0-0.5	9/7/2001	0.180 U	0.730 U	0.0730 U			0.0730 U			0.0730 U
TLS-4-8-10	'8-10	9/7/2001	0.280 U	1.10 U	0.110 U			0.110 U			0.0750 J
TLS-5 0-0.5	'0-0.5	8/21/2001	0.180 U	0.710 U	0.0710 U			0.0710 U			0.0710 U
TLS-5-8-10	'8-10	9/26/2001	0.260 U	1.00 U	0.100 U			0.100 U			0.166

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,4-Dioctylphenol	2,5-Cyclohexadiene-1,4-Dione, 2,6-	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol	2-Butenoic Acid, 2-Methyl-, (e)-	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001	0.220 U	0.900 U	0.0900 U		3.60 JN	0.0900 U	0.580 JN		0.0900 U
TLS-6-3-5	'3-5	9/26/2001	22.0 U	89.0 U	8.90 U			8.90 U			8.90 U
TLS-7 0-.5	'0-0.5	8/21/2001	0.250 U	0.990 U	0.0990 U		0.310 JN	0.0990 U			0.0990 U
TLS-8-0-0.5	'0-0.5	9/7/2001	0.190 U	0.760 U	0.0760 U			0.0760 U			0.0760 U
TLS-8-6-8	'6-8	9/7/2001	0.220 U	0.870 U	0.0870 U			0.0870 U			0.0870 U
TLS-9 0-.5	'0-0.5	8/21/2001	0.910 U	3.60 U	0.360 U			0.360 U			0.360 U
TP-105	'0-0	6/8/2007	0.0850 U	0.0510 U	0.0390 U			0.0380 U			0.0470 U
TP-105A	'0-0	6/8/2007	0.0850 U	0.0510 U	0.0390 U			0.0380 U			0.0470 U
TP-106-A	'0-0	6/8/2007	0.0880 U	0.0520 U	0.0400 U			0.0390 U			0.0480 U
TP-106-B	'0-0	6/8/2007	0.0860 U	0.0510 U	0.0390 U			0.0380 U			0.0470 U
WWT-1-0-0.5	'0-0.5	7/19/2001	0.980 U	3.90 U	0.390 U			0.390 U			0.390 U
WWT-101-15-17	'15-17	11/6/2006	0.110 U	0.0630 U	0.0480 U			0.0470 U			0.0580 U
WWT-101-21-23	'21-23	11/6/2006	0.100 U	0.0600 U	0.0460 U			0.0450 U			0.0550 U
WWT-1-12-14	'12-14	8/23/2001	13.0 U	52.0 U	5.20 U			5.20 U			3.52 J
WWT-2-0-0.5	'0-0.5	8/23/2001	0.180 U	0.720 U	0.0720 U			0.0720 U			0.0410 J
WWT-2-12-14	'12-14	8/23/2001	0.630 U	2.50 U	0.250 U			0.250 U			0.130 J
WWT-3-0-0.5	'0-0.5	8/23/2001	0.900 U	3.60 U	0.360 U			0.360 U			0.360 U
WWT-3-12-14	'12-14	8/23/2001	0.390 U	1.60 U	0.160 U			0.160 U			0.612

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			2000			2400	3400			83		
12K-B1-0.5-2	'0.5-2	9/6/2001	0.2100 U			0.0850 U	0.2100 U			0.2100 U	0.2100 U	15.0000 JNB
12K-B1-0-0.5	'0-0.5	9/6/2001	0.2000 U			0.1020	0.2000 U			0.2000 U	0.2000 U	16.0000 JNB
12K-B2-0.5-2	'0.5-2	9/6/2001	0.2000 U			0.0790 U	0.2000 U			0.2000 U	0.2000 U	12.0000 JNB
12K-B2-0-0.5	'0-0.5	9/6/2001	0.2000 U			0.0810 U	0.2000 U			0.2000 U	0.2000 U	14.0000 JNB
150K-1-0.5-2	'0.5-2	9/10/2001	0.1900 U			0.0770 U	0.1900 U			0.1900 U	0.1900 U	8.1000 JNB
150K-1-0-0.5	'0-0.5	9/10/2001	1.0000 U			0.4000 U	1.0000 U			1.0000 U	1.0000 U	11.0000 JNB
230-B1-0.5	'0-0.5	10/2/2001	0.2000 U			0.0316 J	0.2000 U			0.2000 U	0.2000 U	10.0000 JNB
230-B10-0-0.5	'0-0.5	8/30/2001	0.2500 U		0.5300 JN	0.0646 J	0.2500 U			0.2500 U	0.2500 U	35.0000 JNB
230-B10-1.5-2	'1.5-2	8/30/2001	0.2100 U			0.0520 J	0.2100 U			0.2100 U	0.2100 U	28.0000 JNB
230-B11-0-0.5	'0-0.5	8/30/2001	0.1800 U			0.0720 U	0.1800 U			0.1800 U	0.1800 U	25.0000 JNB
230-B11-1.5-2	'1.5-2	8/30/2001	0.1800 U			0.0720 U	0.1800 U			0.1800 U	0.1800 U	26.0000 JNB
230-B1-4-6	'4-6	10/2/2001	0.9800 U			0.3900 U	0.9800 U			0.9800 U	0.9800 U	9.3000 JNB
230-B2-0-0.5	'0-0.5	8/30/2001	0.2000 U			0.0800 U	0.2000 U			0.2000 U	0.2000 U	31.0000 JNB
230-B2-1.5-2	'1.5-2	8/30/2001	0.1800 U			0.0720 U	0.1800 U			0.1800 U	0.1800 U	25.0000 JNB
230-B3-0-0.5	'0-0.5	8/30/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	27.0 JNB
230-B3-1.5-2	'1.5-2	8/30/2001	0.200 U			0.0243 J	0.200 U			0.200 U	0.200 U	21.0 JNB
230-B4-0-0.5	'0-0.5	8/30/2001	0.200 U			0.0800 U	0.200 U			0.200 U	0.200 U	24.0 JNB
230-B4-1.5-2	'1.5-2	8/30/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	28.0 JNB
230-B5-0-0.5	'0-0.5	9/13/2001	0.200 U			0.277	0.200 U			0.200 U	0.200 U	12.0 JNB
230-B5-1.5-2	'1.5-2	9/13/2001	0.190 U			0.0422 J	0.190 U			0.190 U	0.190 U	
230-B6 0-0.5	'0-0.5	8/22/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	100. JNB
230-B6 1.5-2	'1.5-2	8/22/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	
230-B7 0-0.5	'0-0.5	8/22/2001	0.200 U			0.0810 U	0.200 U			0.200 U	0.200 U	100. JNB
230-B7 1.5-2	'1.5-2	8/22/2001	0.200 U			0.0820 U	0.200 U			0.200 U	0.200 U	96.0 JNB
230-B8 1.5-2	'1.5-2	8/22/2001	0.210 U			0.308	0.210 U			0.210 U	0.210 U	110. JNB
230-B9 0-0.5	'0-0.5	8/22/2001	0.180 U			0.0710 U	0.180 U			0.180 U	0.180 U	98.0 JNB
230-B9 0-0.5	'0-0.5	8/22/2001	0.190 U			0.0770 U	0.190 U			0.190 U	0.190 U	100. JNB
230-B9 1.5-2	'1.5-2	8/22/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	78.0 JNB
231-B1-0-0.5	'0-0.5	10/5/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	7.50 JNB
231-B10-0-0.5	'0-0.5	9/17/2001	0.210 U			0.0830 U	0.210 U			0.210 U	0.210 U	13.0 JNB
231-B11-0-0.5	'0-0.5	9/19/2001	0.230 U			0.0940 U	0.230 U			0.230 U	0.230 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001	0.210 U			0.0850 U	0.210 U			0.210 U	0.210 U	
231-B12-0-0.5	'0-0.5	9/17/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	11.0 JNB
231-B13-0-0.5	'0-0.5	9/19/2001	0.960 U			0.390 U	0.960 U			0.960 U	0.960 U	
231-B13-8-10	'9-10	9/27/2001	0.190 U			0.0200 J	0.190 U			0.190 U	0.190 U	2.90 JNB
231-B14-0-0.5	'0-0.5	9/19/2001	0.200 U			0.0820 U	0.200 U			0.200 U	0.200 U	
231-B2-0.5-2	'0.5-2	8/22/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	74.0 JNB
231-B2-0-0.5	'0-0.5	8/22/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	85.0 JNB
231-B3-0-0.5	'0-0.5	8/22/2001	0.190 U			0.0770 U	0.190 U			0.190 U	0.190 U	9.00 JNB
231-B4-0-0.5	'0-0.5	8/30/2001	0.190 U			0.0770 U	0.190 U			0.190 U	0.190 U	24.0 JNB
231-B4-6-8	'6-8	9/27/2001	0.200 U			0.0390 J	0.200 U		0.300 JN	0.200 U	0.200 U	5.10 JNB
231-B5-0.5-2	'0.5-2	9/19/2001	0.210 U			0.0840 U	0.210 U			0.210 U	0.210 U	
231-B6-0-0.5	'0-0.5	9/27/2001	0.230 U			0.496	0.230 U			0.230 U	0.230 U	4.50 JNB
231-B6-4-6	'4-6	9/27/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	3.50 JNB
231-B7-0-0.5	'0-0.5	9/13/2001	1.00 U			0.410 U	1.00 U			1.00 U	1.00 U	13.0 JNB
231-B8-0-0.5	'0-0.5	9/27/2001	0.390 UJ			0.0883 J	0.390 UJ			0.390 UJ	0.390 UJ	7.00 JNB
231-B8-8-10	'8-10	9/27/2001	16.0 U			1.72 J	16.0 U			16.0 U	16.0 U	20.0 JNB
231-B9-0.5-2	'0.5-2	9/27/2001	0.230 U			0.0940 U	0.230 U			0.230 U	0.230 U	3.00 JNB
231-B9-0-0.5	'0-0.5	9/27/2001	1.20 U			0.470 U	1.20 U			1.20 U	1.20 U	5.40 JNB
240-1-0-0.5	'0-0.5	9/26/2001	0.200 U			0.0810 U	0.200 U			0.200 U	0.200 U	8.70 JNB
240-1-8-10	'8-10	10/1/2001	0.200 U			0.0810 U	0.200 U			0.200 U	0.200 U	
5K-B1-0-0.5	'0-0.5	10/1/2001	1.00 U			0.410 U	1.00 U			1.00 U	1.00 U	13.0 JNB
5K-B2-0-0.5	'0-0.5	8/31/2001	0.180 U			0.0710 U	0.180 U			0.180 U	0.180 U	33.0 JNB
5K-B2-8-10	'8-10	8/31/2001	0.200 U			0.0820 U	0.200 U			0.200 U	0.200 U	33.0 JNB
5K-B3-0-0.5	'0-0.5	9/26/2001	0.200 U			0.0800 U	0.200 U		0.340 JN	0.200 U	0.200 U	9.90 JNB
5K-B4-0-0.5	'0-0.5	10/1/2001	1.20 U			0.460 U	1.20 U			1.20 U	1.20 U	18.0 JNB
5K-B4-4-6	'4-6	10/1/2001	1.40 U			5.17	1.40 U			1.40 U	1.40 U	20.0 JNB
5K-B5-0-0.5	'0-0.5	8/31/2001	0.200 U			0.0780 U	0.200 U			0.200 U	0.200 U	18.0 JNB
5K-B5-4-6	'4-6	9/26/2001	0.220 U			0.0870 U	0.220 U			0.220 U	0.220 U	8.20 JNB
AB-1-0-0.5	'0-0.5	9/4/2001	0.200 U			0.0196 J	0.200 U			0.200 U	0.200 U	14.0 JNB
AB-2-0.5-2	'0.5-2	9/4/2001	0.220 U			0.0605 J	0.220 U			0.220 U	0.220 U	7.70 JNB
AB-2-0-0.5	'0-0.5	9/4/2001	0.200 U			0.0810 U	0.200 U			0.200 U	0.200 U	8.30 JNB
ADN-1-0-0.5	'0-0.5	9/5/2001	0.190 U			0.433	0.190 U			0.190 U	0.190 U	15.0 JNB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001	0.240 U			7.15	0.240 U			0.240 U	0.240 U	22.0 JNB
ADN-2-0-0.5	'0-0.5	9/5/2001	0.200 U			0.0820 U	0.200 U			0.200 U	0.200 U	17.0 JNB
ADN-2-10-11	'10-11	9/27/2001	0.200 U			0.0800 U	0.200 U			0.200 U	0.200 U	3.00 JNB
ADS-1-0-.5	'0-0.5	7/17/2001	0.940 U			0.370 U	0.940 U			0.940 U	0.940 U	6.20 JNB
ADS-10-0-0.5	'0-2	7/18/2001	0.190 U			0.183	0.190 U			0.190 U	0.190 U	4.60 JNB
ADS-101-0-1	'0-1	12/5/2006	0.0330 U			0.0250 U	0.0380 U			0.0250 U	0.0480 U	
ADS-101-1-3	'1-3	12/5/2006	0.0320 U			0.0250 U	0.0370 U			0.0240 U	0.0470 U	
ADS-102-0-1.5	'0-2	12/5/2006	0.0320 U			0.0819	0.0370 U			0.0240 U	0.0460 U	
ADS-102-7-8	'4-8	12/5/2006	0.0340 U			0.0260 U	0.0390 U			0.0250 U	0.0500 U	
ADS-10-4-6	'4-6	7/18/2001	0.240 U			0.0950 U	0.240 U			0.240 U	0.240 U	4.10 JNB
ADS-11-0-0.5	'0-2	7/18/2001	0.190 U			0.140	0.190 U			0.190 U	0.190 U	4.50 JNB
ADS-12-0.5-2	'0.5-2	7/18/2001	0.220 U			0.0870 U	0.220 U			0.220 U	0.220 U	4.30 JNB
ADS-12-0-0.5	'0-0.5	7/18/2001	0.210 U			0.0850 U	0.210 U			0.210 U	0.210 U	6.00 JNB
ADS-2-0-0.5	'0-0.5	7/18/2001	0.200 U			0.0800 U	0.200 U			0.200 U	0.200 U	5.10 JNB
ADS-2-4-6	'4-6	7/18/2001	0.200 U			0.0810 U	0.200 U			0.200 U	0.200 U	5.10 JNB
ADS-3-0-0.5	'0-0.5	7/18/2001	0.190 U			0.0780 U	0.190 U			0.190 U	0.190 U	3.70 JNB
ADS-4-0-0.5	'0-2	7/18/2001	0.190 U			0.0770 U	0.190 U			0.190 U	0.190 U	4.10 JNB
ADS-4-12-14	'12-14	7/18/2001	0.210 U			0.407	0.210 U			0.210 U	0.210 U	
ADS-5-0-0.5	'0-0.5	7/18/2001	0.900 U			0.360 U	0.900 U			0.900 U	0.900 U	6.20 JNB
ADS-5-4-6	'4-6	9/27/2001	0.190 U			0.0740 U	0.190 U			0.190 U	0.190 U	2.60 JNB
ADS-6-0.5-2	'0.5-2	7/18/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	3.60 JNB
ADS-6-0-0.5	'0-0.5	7/18/2001	0.950 U			0.380 U	0.950 U			0.950 U	0.950 U	6.20 JNB
ADS-7-0-.5	'0-0.5	7/17/2001	0.900 U			0.360 U	0.900 U			0.900 U	0.900 U	10.0 JNB
ADS-8-0-0.5	'0-0.5	7/18/2001	0.210 U			0.0820 U	0.210 U			0.210 U	0.210 U	
ADS-8-4-6	'4-6	7/18/2001	0.210 U			0.411	0.210 U			0.210 U	0.210 U	6.40 JNB
ADS-9-0-0.5	'0-0.5	7/18/2001	0.220 U			0.0513 J	0.220 U			0.220 U	0.220 U	4.60 JNB
BLIND DUP	'0-0	8/21/2001	0.180 U			0.0710 U	0.180 U			0.180 U	0.180 U	28.0 JNB
BSL-10-0-1	'0-1	9/21/2001	0.250 U			0.0990 U	0.250 U			0.250 U	0.250 U	0.550 JNB
BSL-1-0-1	'0-1	9/20/2001	0.200 U			0.0790 U	0.200 U			0.200 U	0.200 U	
BSL-11-0-1	'0-1	9/26/2001	0.240 U			0.0960 U	0.240 U			0.240 U	0.240 U	
BSL-12-0-1	'0-1	9/26/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	
BSL-1-4-6	'4-6	9/20/2001	0.240 U			0.0980 U	0.240 U			0.240 U	0.240 U	4.10 JNB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001	0.250 U			0.100 U	0.250 U			0.250 U	0.250 U	0.510 JNB
BSL-3-0-0.5	'0-0.5	9/20/2001	0.180 U			0.0710 U	0.180 U			0.180 U	0.180 U	3.20 JNB
BSL-4-0-1	'0-0.5	9/21/2001	0.220 U			0.0860 U	0.220 U			0.220 U	0.220 U	0.440 JNB
BSL-4-4-6	'4-6	9/21/2001	0.350 U			0.140 U	0.350 U			0.350 U	0.350 U	0.740 JNB
BSL-5-0-.5	'0-0.5	9/21/2001	0.200 U			0.0820 U	0.200 U			0.200 U	0.200 U	0.540 JNB
BSL-6-0-1	'0-1	9/26/2001	0.270 U			0.110 U	0.270 U			0.270 U	0.270 U	6.60 JNB
BSL-6-1-2	'1-2	9/26/2001	0.320 U			0.130 U	0.320 U			0.320 U	0.320 U	7.00 JNB
BSL-7-0-.5	'0-0.5	9/21/2001	0.240 U			0.0980 U	0.240 U			0.240 U	0.240 U	0.530 JNB
BSL-8-0-1	'0-1	9/26/2001	0.300 U			0.120 U	0.300 U			0.300 U	0.300 U	12.0 JNB
BSL-9-.5-2	'0.5-2	9/21/2001	0.270 U			0.110 U	0.270 U			0.270 U	0.270 U	0.400 JNB
BSL-9-0-.5	'0-0.5	9/21/2001	0.210 U			0.0840 U	0.210 U			0.210 U	0.210 U	0.460 JNB
BT-B1-0-0.5	'0-0.5	9/18/2001	0.200 U			0.0810 U	0.200 U			0.200 U	0.200 U	15.0 JNB
BT-B2-0.5-2	'0.5-2	9/18/2001	0.200 U			0.0790 U	0.200 U			0.200 U	0.200 U	30.0 JNB
BT-B2-0-0.5	'0-0.5	9/18/2001	0.220 U			0.0530 J	0.220 U			0.220 U	0.220 U	17.0 JNB
BT-B3-0-0.5	'0-0.5	9/18/2001	0.960 U			0.390 U	0.960 U			0.960 U	0.960 U	21.0 JNB
BT-B4-0.5-2	'0.5-2	8/30/2001	0.190 U			0.0403 J	0.190 U			0.190 U	0.190 U	27.0 JNB
BT-B4-0-0.5	'0-0.5	8/30/2001	0.840 U			0.130 J	0.840 U			0.840 U	0.840 U	39.0 JNB
BT-B5-0-.5	'0-0.5	10/2/2001	0.200 U			0.0250 J	0.200 U			0.200 U	0.200 U	13.0 JNB
BT-B6-0.5-2	'0.5-2	9/17/2001	0.220 U			0.0880 U	0.220 U			0.220 U	0.220 U	13.0 JNB
BT-B6-0-0.5	'0-0.5	9/17/2001	0.860 U			0.340 U	0.860 U			0.860 U	0.860 U	13.0 JNB
CF-1-0-0.5	'0-0.5	8/31/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	20.0 JNB
CF-1-2-4	'2-4	8/31/2001	0.190 U			0.0673 J	0.190 U			0.190 U	0.190 U	17.0 JNB
CF-2-0-0.5	'0-0.5	8/28/2001	0.210 U			0.0820 U	0.210 U			0.210 U	0.210 U	47.0 JNB
CF-3-0.5-2	'0.5-2	8/28/2001	0.330 U			0.130 U	0.330 U			0.330 U	0.330 U	61.0 JNB
CF-3-0-0.5	'0-0.5	8/28/2001	0.250 U			0.0990 U	0.250 U			0.250 U	0.250 U	53.0 JNB
CF-4-0-0.5	'0-0.5	8/28/2001	0.220 U			0.0870 U	0.220 U			0.220 U	0.220 U	46.0 JNB
CF-5-0-0.5	'0-0.5	8/28/2001	0.170 U			0.0700 U	0.170 U			0.170 U	0.170 U	40.0 JNB
CF-5-4-6	'4-6	8/28/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	43.0 JNB
CF-6-0-0.5	'0-0.5	8/28/2001	0.190 U			0.0770 U	0.190 U			0.190 U	0.190 U	41.0 JNB
CF-7-0-0.5	'0-0.5	8/28/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	37.0 JNB
CF-7-4-6	'4-6	8/28/2001	0.180 U			0.0600 J	0.180 U			0.180 U	0.180 U	45.0 JNB
CF-8-0-0.5	'0-0.5	8/28/2001	0.190 U			0.0999	0.190 U			0.190 U	0.190 U	43.0 JNB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001	0.180 U			0.0720 U	0.180 U			0.180 U	0.180 U	16.0 JNB
CF-9-0-0.5	'0-0.5	8/31/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	24.0 JNB
DC-B12-0-0.5	'0-0.5	10/3/2001	0.190 U			0.0722 J	0.190 U			0.190 U	0.190 U	3.80 JNB
DC-B12-2-4	'2-4	10/3/2001	0.180 U			0.0730 U	0.180 U		0.900 JN	0.180 U	0.180 U	
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.180 U			0.0730 U	0.180 U			0.180 U	0.180 U	17.0 JNB
DC-SS11-0-0.5	'0-0.5	9/17/2001	0.920 U			10.8	0.920 U			0.920 U	0.920 U	10.0 JNB
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.860 U			0.350 U	0.860 U			0.860 U	0.860 U	13.0 JNB
DC-SS15-0-0.5	'0-0.5	9/17/2001	1.00 U			0.534	1.00 U			1.00 U	1.00 U	17.0 JNB
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.210 U			0.413	0.210 U			0.210 U	0.210 U	14.0 JNB
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	16.0 JNB
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.220 U			0.0880 U	0.220 U			0.220 U	0.220 U	18.0 JNB
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	12.0 JNB
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.190 U			0.0321 J	0.190 U			0.190 U	0.190 U	17.0 JNB
DSP-1-0-0.5	'0-0.5	10/3/2001	0.200 U			0.0820 U	0.200 U			0.200 U	0.200 U	23.0 JNB
DSP-1-4-6	'4-6	11/19/2001	0.210 U			0.0820 U	0.210 U			0.210 U	0.210 U	27.0 JNB
DSP-2-0-0.5	'0-0.5	9/4/2001	0.180 U			0.0192 J	0.180 U			0.180 U	0.180 U	13.0 JNB
DSP-3-0-0.5	'0-0.5	9/4/2001	0.940 U	1.40 JN		0.584	0.940 U			0.940 U	0.940 U	16.0 JNB
DSP-3-2-4	'2-4	9/4/2001	0.210 U			0.0830 U	0.210 U			0.210 U	0.210 U	7.80 JNB
DSP-4-0-0.5	'0-0.5	9/4/2001	0.210 U			0.0279 J	0.210 U			0.210 U	0.210 U	20.0 JNB
DSP-4-4-6	'4-6	9/26/2001	0.210 U			0.0625 J	0.210 U			0.210 U	0.210 U	3.20 JNB
DUP-01-010824	'0-0.5	8/24/2001	0.190 U			0.665	0.190 U			0.190 U	0.190 U	27.0 JNB
DUP-01-010831	'2-4	8/31/2001	0.190 U			0.0382 J	0.190 U			0.190 U	0.190 U	23.0 JNB
DUP-01-010904	'0-0.5	9/4/2001	0.920 U			0.106 J	0.920 U			0.920 U	0.920 U	12.0 JNB
DUP-01-010905	'8-10	9/5/2001	0.210 U			20.1	0.210 U			0.210 U	0.210 U	18.0 JNB
DUP-01-010906	'0-8	9/6/2001	0.760 U			172.	0.760 U			0.760 U	0.760 U	28.0 JNB
DUP-01-010913	'0-0.5	9/13/2001	0.960 U			0.380 U	0.960 U			0.960 U	0.960 U	17.0 JNB
DUP-01-010917	'0-0.5	9/17/2001	0.190 U			0.0449 J	0.190 U			0.190 U	0.190 U	16.0 JNB
DUP-01-010926	'1-2	9/26/2001	0.320 U			0.130 U	0.320 U		0.740 JN	0.320 U	0.320 U	0.910 JNB
DUP-01-010927	'4-6	9/27/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	2.80 JNB
DUP-01-021001	'0-0	10/2/2001	0.190 U			0.0246 J	0.190 U			0.190 U	0.190 U	10.0 JNB
DUP-01-08 2201	'1.5-2	8/22/2001	0.200 U			0.0800 U	0.200 U			0.200 U	0.200 U	87.0 JNB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001	0.190 U			0.0214 J	0.190 U			0.190 U	0.190 U	18.0 JNB
DUP-01-170402	'0-0	4/17/2002	0.460 U			0.224	0.460 U			0.460 U	0.460 U	
DUP-02-010913	'0-0.5	9/13/2001	1.10 U			0.430 U	1.10 U			1.10 U	1.10 U	12.0 JNB
DUP-02-010921	'0-1	9/21/2001	0.230 U			0.0910 U	0.230 U			0.230 U	0.230 U	0.560 JNB
DUP-02-010926	'4-6	9/26/2001	0.220 U			0.0453 J	0.220 U			0.220 U	0.220 U	9.10 JNB
DUP060807	'0-0	6/8/2007	0.0290 U			0.0220 U	0.0340 U			0.0220 U	0.0430 U	
DUP-1-010828	'0-0.5	8/28/2001	0.190 U			0.0770 U	0.190 U			0.190 U	0.190 U	42.0 JNB
DUP-1-010921	'0-0.5	9/21/2001	0.260 U			0.100 U	0.260 U			0.260 U	0.260 U	0.510 JNB
DUP110606	'15-17	11/6/2006	0.0360 U			0.0270 U	0.0410 U			0.0270 U	0.0520 U	
DUP112006	'16-18	11/20/2006	0.0560 UJ			0.0430 U	0.0640 U			0.0410 U	0.0810 U	
DUP112106	'10-12	11/21/2006	0.0590 U			0.0450 U	0.0670 U			0.0430 U	0.0850 U	
DUP-120506	'0-4	12/5/2006	0.0870 U			0.0660 U	0.100 U			0.0640 U	0.130 U	
DUP-120606	'0-4	12/6/2006	0.0290 U			0.0220 U	0.0340 U			0.0220 U	0.0430 U	
DUPE071801	'0-0.5	7/18/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	4.40 JNB
EC-1	'0-1	8/21/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	37.0 JNB
EC-2	'0-1	8/21/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	32.0 JNB
EC-3	'0-1	8/21/2001	0.180 U			0.0710 U	0.180 U			0.180 U	0.180 U	31.0 JNB
EC-4	'0-1	8/21/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	33.0 JNB
EC-5	'0-1	8/21/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	16.0 JNB
EC-6	'0-1	8/21/2001	0.210 U			0.0820 U	0.210 U			0.210 U	0.210 U	36.0 JNB
EC-7	'0-1	8/21/2001	0.200 U			0.0800 U	0.200 U			0.200 U	0.200 U	41.0 JNB
EC-8	'0-1	8/21/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	35.0 JNB
EC-9	'0-1	8/21/2001	0.220 U			0.0254 J	0.220 U			0.220 U	0.220 U	38.0 JNB
ESR-1-0-1	'0-0.5	9/4/2001	0.180 U			0.0710 U	0.180 U			0.180 U	0.180 U	9.70 JNB
ESR-1-4-6	'4-6	9/4/2001	0.210 U			0.0830 U	0.210 U			0.210 U	0.210 U	15.0 JNB
HB-101A	'17-17	3/5/2007	0.0330 U			0.0250 U	1.20			0.0240 U	0.0480 U	
HB-102A	'0-0	3/13/2007	0.0510 U			0.0390 U	0.0590 U			0.0380 U	0.0740 U	
HB-102B	'0-0	3/14/2007	0.0350 U			0.0587 J	0.0400 U			0.0260 U	0.0510 U	
HB-102C	'0-0	3/14/2007	0.0320 U			0.0250 U	0.0370 U			0.0240 U	0.0470 U	
H-B-103A	'17-17	2/20/2007	0.0450 U			0.360	0.0520 U			0.0330 U	0.0660 U	
H-B-104A	'17-17	2/23/2007	0.0350 U			0.0270 U	0.0428 J			0.0260 U	0.0510 U	
H-B-104B	'17-17	2/23/2007	0.0330 U			0.0250 U	0.0380 U			0.0240 U	0.0480 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007	0.0360 U			6.67	0.153 J			0.0270 U	0.0520 U	
H-B-104D	'17-17	2/27/2007	0.0330 U			0.0250 U	0.0380 U			0.0250 U	0.0480 U	
H-B-104E	'17-17	2/27/2007	0.0340 U			0.300	0.0390 U			0.0250 U	0.0490 U	
H-B-105C	'17-17	2/8/2007	0.0320 U			0.0240 U	0.0370 U			0.0240 U	0.0470 U	
H-B-105D	'17-17	2/8/2007	0.0350 U			0.0270 U	0.0400 U			0.0260 U	0.0510 U	
H-B-105E	'0-0	2/8/2007	0.0350 U			0.0260 U	0.0400 U			0.0260 U	0.0500 U	
HB-1A	'6.75-6.75	4/18/2002	0.300 U			0.604	0.300 U			0.300 U	0.300 U	
HB-3A	'5.25-5.25	4/17/2002	0.520 U			0.350	0.520 U			0.520 U	0.520 U	
HB-3B	'4.5-4.5	4/17/2002	0.200 U			0.0780 U	0.200 U			0.200 U	0.200 U	
HB-3C	'4.5-4.5	4/18/2002	0.190 U			0.0770 U	0.190 U			0.190 U	0.190 U	
HB-3D	'4.5-4.5	4/18/2002	0.200 U			0.0800 U	0.113 J			0.200 U	0.200 U	
HB-4A	'5.33-5.33	4/19/2002	0.200 U			0.0780 U	0.0432 J			0.200 U	0.200 U	
HB-5A	'3-3	4/22/2002	0.210 U			0.448	0.210 U			0.210 U	0.210 U	
HB-7A	'5-5	4/19/2002	0.210 U			0.100	0.210 U			0.210 U	0.210 U	
HB-8A	'3-3	4/23/2002	0.200 U			0.0294 J	0.200 U			0.200 U	0.200 U	
HB-8B	'4.83-4.83	4/23/2002	0.200 U			0.0790 U	0.200 U			0.200 U	0.200 U	
HB-8C	'5.5-5.5	4/23/2002	0.200 U			0.197	0.101 J			0.200 U	0.200 U	
HB-9A	'4.75-4.75	4/24/2002	0.210 U			1.99	0.210 U			0.210 U	0.210 U	
HF-B1-0-0.5	'0-0.5	9/10/2001	0.200 U			0.0234 J	0.200 U			0.200 U	0.200 U	9.20 JNB
HF-B1-8-10	'8-10	9/10/2001	0.230 U			1.74	0.230 U			0.230 U	0.230 U	10.0 JNB
HF-B2-0-0.5	'0-0.5	9/4/2001	0.180 U			0.0787	0.180 U			0.180 U	0.180 U	8.10 JNB
HF-B2-4-6	'4-6	9/4/2001	0.180 U			0.0385 J	0.180 U			0.180 U	0.180 U	7.50 JNB
HF-B3-0-.5	'0-0.5	10/2/2001	0.190 U			0.0372 J	0.190 U			0.190 U	0.190 U	10.0 JNB
HF-B3-8-10	'8-10	10/2/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	13.0 JNB
IB-1-0-2	'0-2	4/8/2002	0.190 U			0.0376 J	0.190 U			0.190 U	0.190 U	
IB-1-4-6	'4-6	4/8/2002	0.190 U			0.0780 U	0.190 U			0.190 U	0.190 U	
IB-2-12-14	'12-14	4/8/2002	0.210 U			6.35	0.210 U			0.210 U	0.210 U	
IB-2-4-6	'4-6	4/8/2002	0.190 U			0.275	0.190 U			0.190 U	0.190 U	
IB-3-4-6	'4-6	4/8/2002	0.210 U			0.682	0.210 U			0.210 U	0.210 U	
IB-3-8-10	'8-10	4/8/2002	0.220 U			0.974	0.220 U			0.220 U	0.220 U	
LB-101-0-1	'0-1	12/6/2006	0.0310 U			0.0230 U	0.0350 U			0.0230 U	0.0440 U	
LB-101-1-3	'1-3	12/6/2006	0.0290 U			0.0220 U	0.0330 U			0.0220 U	0.0420 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006	0.0320 U			0.0240 U	0.0360 U			0.0230 U	0.0460 U	
LB-102-1-3	'3-7	12/6/2006	0.0310 U			0.0240 U	0.0360 U			0.0230 U	0.0460 U	
LB-103-0-1	'0-1	12/6/2006	0.0310 U			0.0230 U	0.0350 U			0.0230 U	0.0440 U	
LB-103-5-7	'5-7	12/6/2006	0.0350 U			0.0430 J	0.0400 U			0.0260 U	0.0510 U	
LHP-101-0-1	'0-1	12/4/2006	0.160 U			0.120 U	0.180 U			0.120 U	0.230 U	
LHP-101-5-8	'4-8	12/4/2006	0.110 U			0.114 J	0.130 U			0.0830 U	0.160 U	
LHP-102-0-1	'0-1	12/5/2006	0.0320 U			0.0513 J	0.0370 U			0.0240 U	0.0460 U	
LHP-102-7-9	'7-9	12/5/2006	0.0400 U			0.162	0.0450 U			0.0290 U	0.0570 U	
LHP-103-0-1	'0-1	12/5/2006	0.160 U			0.120 U	0.180 U			0.120 U	0.230 U	
LHP-103-1-3	'1-3	12/5/2006	0.0350 U			0.102	0.0400 U			0.0260 U	0.0500 U	
LHP-104-0-1	'0-1	12/5/2006	0.0300 U			0.0230 U	0.0340 U			0.0220 U	0.0430 U	
LHP-104-7-9	'4-8	12/5/2006	0.0330 U			0.0580 J	0.0380 U			0.0250 U	0.0480 U	
LHP-105-0-1	'0-1	12/5/2006	0.150 U			0.110 U	0.170 U			0.110 U	0.220 U	
LHP-105-1-3	'1-3	12/5/2006	0.0300 U			0.0230 U	0.0340 U			0.0220 U	0.0430 U	
LHP-106-0-1	'0-1	12/4/2006	0.150 U			0.110 U	0.170 U			0.110 U	0.210 U	
LHP-106-1-3	'1-3	12/4/2006	0.180 U			0.140 U	0.200 U			0.130 U	0.260 U	
LHP-107-0-1	'0-1	12/5/2006	0.0310 U			0.0230 U	0.0350 U			0.0230 U	0.0440 U	
LHP-107-5-7	'4-8	12/5/2006	0.0330 U			0.0250 U	0.0370 U			0.0240 U	0.0470 U	
LHP-108-0-1	'0-1	12/6/2006	0.0320 U			0.0240 U	0.0370 U			0.0240 U	0.0460 U	
LHP-108-3-7	'3-7	12/6/2006	0.0350 U			0.0260 U	0.0400 U			0.0260 U	0.0500 U	
LHP-109-0-1	'0-1	12/6/2006	0.0330 U			0.0360 J	0.0370 U			0.0240 U	0.0470 U	
LHP-109-7-9	'7-9	12/6/2006	0.0390 U			0.0325 J	0.0450 U			0.0290 U	0.0570 U	
LHP-110-0-1	'0-1	12/4/2006	0.330 U			0.250 U	0.370 U			0.240 U	0.470 U	
LHP-111-0-1	'0-1	12/4/2006	0.0320 U			0.0240 U	0.0360 U			0.0240 U	0.0460 U	
LHP-112-0-1	'0-1	12/4/2006	0.0320 U			0.0696 J	0.0370 U			0.0240 U	0.0470 U	
LHP-113-0-1	'0-1	12/4/2006	0.0300 U			0.0230 U	0.0350 U			0.0220 U	0.0440 U	
LHP-114-0-1	'0-1	12/4/2006	0.0310 U			0.0240 U	0.0360 U			0.0230 U	0.0450 U	
LHP-115-0-1	'0-1	12/4/2006	0.0300 U			0.0230 U	0.0340 U			0.0220 U	0.0430 U	
LHP-116-0-1	'0-1	12/4/2006	0.0320 U			0.0240 U	0.0370 U			0.0240 U	0.0460 U	
LHP-117-0-1	'0-1	12/4/2006	0.0330 U			0.0250 U	0.0380 U			0.0240 U	0.0480 U	
LHP-118-0-1	'0-1	12/4/2006	0.170 U			0.130 U	0.190 U			0.120 U	0.240 U	
LHP-119-0-1	'0-1	12/4/2006	0.0330 U			0.0406 J	0.0380 U			0.0240 U	0.0480 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006	0.0370 U			0.158	0.0420 U			0.0270 U	0.0530 U	
LHP-121-0-1	'0-1	12/6/2006	0.0320 U			0.0674 J	0.0370 U			0.0240 U	0.0470 U	
LHP-122-0-1	'0-1	12/6/2006	0.0310 U			0.0230 U	0.0350 U			0.0230 U	0.0440 U	
LHP-123-0-1	'0-1	12/4/2006	0.0330 U			0.0293 J	0.0370 U			0.0240 U	0.0470 U	
LHP-124-.5-2	'0.5-2	10/27/2006	0.0330 U			0.0250 U	0.0380 U			0.0240 U	0.0480 U	
LHP-124-10-12	'10-12	10/31/2006	0.0530 U			0.0400 U	0.0610 U			0.0390 U	0.0770 U	
LHP-124-2-4	'2-4	10/27/2006	0.0330 U			0.0250 U	0.0380 U			0.0250 U	0.0480 U	
LHP-124-28-30	'28-30	10/31/2006	0.0400 U			0.0300 U	0.0450 U			0.0290 U	0.0570 U	
LHP-125-.5-2	'0.5-2	10/27/2006	0.0320 U			0.0240 U	0.0370 U			0.0240 U	0.0470 U	
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0370 U			0.0280 U	0.0420 U			0.0270 U	0.0530 U	
LHP-125-12-14	'12-14	11/1/2006	0.0330 U			0.0250 U	0.0380 U			0.0240 U	0.0480 U	
LHP-125-4-6	'4-6	10/27/2006	0.0320 U			0.0240 U	0.0360 U			0.0230 U	0.0460 U	
LHP-126-10.5-12	'10.5-12	11/1/2006	0.140 UJ			0.100 UJ	0.160 UJ			0.100 UJ	0.200 UJ	
LHP-126-14-16	'14-16	11/1/2006	0.0340 U			0.0260 U	0.0390 U			0.0250 U	0.0490 U	
LHP-126-2-4	'2-4	10/26/2006	0.0320 U			0.0802	0.0360 U			0.0230 U	0.0460 U	
LHP-126-8-10	'9-10	10/26/2006	0.0350 U			0.0553 J	0.0400 U			0.0260 U	0.0510 U	
LHP-127-0-1	'0-1	12/6/2006	0.0300 U			0.0622 J	0.0350 U			0.0220 U	0.0440 U	
LHP-127-3-5	'3-5	12/6/2006	0.0300 U			0.0261 J	0.0340 U			0.0220 U	0.0440 U	
LHP-128-0-1	'0-4	12/6/2006	0.0300 U			0.0220 U	0.0340 U			0.0220 U	0.0430 U	
LHP-128-7-8	'17-17	12/6/2006	0.0390 U			0.151	0.0450 U			0.0290 U	0.0570 U	
LP-1-0-0.5	'0-0.5	8/27/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	39.0 JNB
LP-10-0.5-2	'0.5-2	8/27/2001	0.210 U			0.0840 U	0.210 U			0.210 U	0.210 U	55.0 JNB
LP-10-0-0.5	'0-0.5	8/27/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	49.0 JNB
LP-101-11-13	'11-13	11/2/2006	0.0530 U			0.0400 U	0.0610 U			0.0390 U	0.0770 U	
LP-101-14-16	'14-16	11/2/2006	0.0460 U			0.0350 U	0.0530 U			0.0340 U	0.0670 U	
LP-101-26-28	'26-28	11/2/2006	0.0330 U			0.0250 U	0.0380 U			0.0240 U	0.0480 U	
LP-101-50-52	'50-52	11/2/2006	0.0330 U			0.0250 U	0.0370 U			0.0240 U	0.0470 U	
LP-11-0-0.5	'0-0.5	8/27/2001	0.210 U			0.0840 U	0.210 U			0.210 U	0.210 U	42.0 JNB
LP-12-0-0.5	'0-0.5	8/27/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	47.0 JNB
LP-12-4-6	'4-6	8/27/2001	0.180 U			0.0730 U	0.180 U			0.180 U	0.180 U	43.0 JNB
LP-13-0-0.5	'0-0.5	8/24/2001	0.210 U			0.0840 U	0.210 U			0.210 U	0.210 U	23.0 JNB
LP-14-0.5-2	'0.5-2	8/24/2001	0.180 U			0.0710 U	0.180 U			0.180 U	0.180 U	27.0 JNB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001	0.920 U			0.370 U	0.920 U			0.920 U	0.920 U	51.0 JNB
LP-15-0-0.5	'0-0.5	8/24/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	30.0 JNB
LP-16-0.5-2	'0.5-2	8/27/2001	0.910 U			0.360 U	0.910 U			0.910 U	0.910 U	76.0 JNB
LP-16-0-0.5	'0-0.5	8/27/2001	0.190 U			0.0770 U	0.190 U			0.190 U	0.190 U	47.0 JNB
LP-2-0.5-2	'0.5-2	8/28/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	37.0 JNB
LP-2-0-0.5	'0-0.5	8/28/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	40.0 JNB
LP-3-0-0.5	'0-0.5	8/27/2001	0.180 U			0.0710 U	0.180 U			0.180 U	0.180 U	40.0 JNB
LP-4 .5-2	'0.5-2	8/21/2001	0.180 U			0.0482 J	0.180 U			0.180 U	0.180 U	23.0 JNB
LP-4 0-.5	'0-0.5	8/21/2001	0.200 U			0.0800 U	0.200 U			0.200 U	0.200 U	29.0 JNB
LP-5-0-0.5	'0-0.5	8/27/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	48.0 JNB
LP-6-0-0.5	'0-0.5	8/27/2001	0.180 U			0.0730 U	0.180 U			0.180 U	0.180 U	52.0 JNB
LP-6-4-6	'4-6	8/27/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	39.0 JNB
LP-7-0-0.5	'0-0.5	8/24/2001	0.200 U			0.0308 J	0.200 U			0.200 U	0.200 U	38.0 JNB
LP-8-0-0.5	'0-0.5	8/24/2001	0.200 U			0.0863	0.200 U			0.200 U	0.200 U	30.0 JNB
LP-8-10-12	'10-12	8/24/2001	0.280 U			0.110 U	0.280 U			0.280 U	0.280 U	35.0 JNB
LP-9-0-0.5	'0-0.5	8/24/2001	0.920 U			0.370 U	0.920 U			0.920 U	0.920 U	52.0 JNB
MW-11D-12-14	'12-14	12/14/2006	0.0510 U			0.0390 U	0.0580 U			0.0370 U	0.0730 U	
MW-11D-14-16	'14-16	12/14/2006	0.0340 U			0.0260 U	0.0390 U			0.0250 U	0.0490 U	
MW-11D-16-18	'16-18	12/14/2006	0.0340 U			0.0260 U	0.0390 U			0.0250 U	0.0490 U	
MW-14D-13-15	'13-15	11/14/2006	0.0370 U			0.0280 U	0.0420 U			0.0270 U	0.0530 U	
MW-14D-17-19	'17-19	11/14/2006	0.0340 U			0.0260 UJ	0.0390 U			0.0250 U	0.0490 U	
MW-16D-13-15	'13-15	11/17/2006	0.0330 UJ			0.0250 U	0.0370 U			0.0240 U	0.0470 U	
MW-16D-17-19	'17-19	11/20/2006	0.0330 UJ			0.0250 U	0.0380 U			0.0250 U	0.0480 U	
MW-17D-15-17	'15-17	11/10/2006	0.0360 U			0.217	0.0410 U			0.0270 U	0.0530 U	
MW-17D-17-19	'17-19	11/10/2006	0.0330 U			0.0250 U	0.0380 U			0.0250 U	0.0480 U	
MW-18D-13-15	'13-15	11/13/2006	0.0360 U			0.0270 U	0.0410 U			0.0260 U	0.0520 U	
MW-18D-17-19	'17-19	11/13/2006	0.0330 U			0.0250 U	0.0370 U			0.0240 U	0.0470 U	
MW-20D-12-14	'12-14	11/9/2006	0.0350 U			0.0260 U	0.0400 U			0.0260 U	0.0500 U	
MW-20D-32-34	'32-32.9	11/10/2006	0.0330 U			0.0250 U	0.0370 U			0.0240 U	0.0470 U	
MW-20D-36-38	'36-38	11/10/2006	0.0330 U			0.0250 U	0.0380 U			0.0250 U	0.0480 U	
MW-21D-13-15	'13-13.7	11/16/2006	0.0350 U			0.0270 U	0.0410 U			0.0260 U	0.0510 U	
MW-21D-15-17	'15-17	11/16/2006	0.0340 UJ			0.0260 U	0.0390 U			0.0250 U	0.0490 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006	0.0350 U			0.0270 UJ	0.0400 U			0.0260 U	0.0510 U	
MW-23D-37-39	'37-37.9	11/15/2006	0.0330 U			0.0250 U	0.0370 U			0.0240 U	0.0470 U	
MW-25D-10-12	'10-12	11/21/2006	0.0600 U			0.0460 U	0.0690 U			0.0440 U	0.0870 U	
MW-25D-33-35	'33-35	12/18/2006	0.0360 U			0.0280 U	0.0410 U			0.0270 U	0.0520 U	
MW-26S-8-10	'8-10	10/26/2006	0.0380 U			0.151	0.0430 U			0.0280 U	0.0540 U	
MW-6D-0-2	'0-2	11/8/2006	0.0320 U			0.0250 U	0.0370 U			0.0240 U	0.0470 U	
MW-6D-12-14	'12-14	11/8/2006	0.0750 U			0.0570 U	0.0860 U			0.0560 U	0.110 U	
MW-6D-16-18	'16-18	11/20/2006	0.0530 UJ			0.0400 U	0.0600 U			0.0390 U	0.0760 U	
MW-6D-30-32	'30-32	11/21/2006	0.0340 U			0.0260 U	0.0380 U			0.0250 U	0.0490 U	
PCA-1-0-.5	'0-2	7/17/2001	0.900 U			0.450	0.900 U			0.900 U	0.900 U	6.10 JNB
PCA-1-4-6	'4-6	7/17/2001	0.200 U			0.0800 U	0.200 U			0.200 U	0.200 U	5.30 JNB
PCA-2-0-.5	'0-0.5	7/17/2001	0.180 U			0.0730 U	0.180 U			0.180 U	0.180 U	6.40 JNB
PCA-3-0-0.5	'0-0.5	9/13/2001	0.390 U			0.123 J	0.390 U			0.390 U	0.390 U	18.0 JNB
PCA-3-4-6	'4-6	9/13/2001	0.210 U			0.223	0.210 U			0.210 U	0.210 U	14.0 JNB
PCA-4-0-0.5	'0-0.5	9/13/2001	0.950 U			0.380 U	0.950 U			0.950 U	0.950 U	16.0 JNB
PCA-4-4-6	'4-6	9/26/2001	0.210 U			0.125	0.210 U			0.210 U	0.210 U	2.30 JNB
PCA-5-0.5-2	'0.5-2	9/7/2001	0.190 U			0.0780 U	0.190 U			0.190 U	0.190 U	6.50 JNB
PCA-5-0-0.5	'0-0.5	9/7/2001	0.210 U			0.0543 J	0.210 U			0.210 U	0.210 U	28.0 JNB
PCA-6-0-0.5	'0-0.5	9/7/2001	0.180 U			0.0215 J	0.180 U			0.180 U	0.180 U	6.10 JNB
RR-1 0-0.5	'0-0.5	8/22/2001	0.180 U			0.252	0.180 U			0.180 U	0.180 U	97.0 JNB
RR-1 14-16	'14-16	8/22/2001	0.200 U			0.201	0.200 U			0.200 U	0.200 U	36.0 JNB
RR-10 0-.5	'0-0.5	10/12/2001	0.180 U			0.0686 J	0.180 U			0.180 U	0.180 U	18.0 JNB
RR-11 0-.5	'0-0.5	10/12/2001	0.200 U			0.0198 J	0.200 U			0.200 U	0.200 U	16.0 JNB
RR-12 0-.5	'0-0.5	10/12/2001	0.200 U			0.0480 J	0.200 U			0.200 U	0.200 U	22.0 JNB
RR-2-0-0.5	'0-0.5	9/13/2001	1.00 U			0.420 U	1.00 U			1.00 U	1.00 U	15.0 JNB
RR-2-8-10	'8-10	9/13/2001	0.250 U			0.0990 U	0.250 U			0.250 U	0.250 U	4.00 JNB
RR-3-0-0.5	'0-0.5	9/13/2001	0.180 U			0.0720 U	0.180 U			0.180 U	0.180 U	13.0 JNB
RR-4-0-0.5	'0-0.5	9/10/2001	0.200 U			0.0809	0.200 U			0.200 U	0.200 U	10.0 JNB
RR-4-6-8	'6-8	9/13/2001	0.190 U			0.0426 J	0.190 U			0.190 U	0.190 U	13.0 JNB
RR-5-0-0.5	'0-0.5	9/10/2001	0.170 U			0.0785	0.170 U			0.170 U	0.170 U	7.60 JNB
RR-6-0-0.5	'0-0.5	9/10/2001	0.180 U			0.0333 J	0.180 U			0.180 U	0.180 U	6.90 JNB
RR-6-8-10	'8-10	9/10/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	6.80 JNB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001	0.190 U			0.0211 J	0.190 U			0.190 U	0.190 U	9.20 JNB
RR-8-0-0.5	'0-0.5	9/26/2001	0.220 U			0.0485 J	0.220 U			0.220 U	0.220 U	11.0 JNB
RR-8-6-8	'6-8	9/26/2001	0.340 U			0.140 U	0.340 U			0.340 U	0.340 U	10.0 JNB
RR-9 0-.5	'0-0.5	10/12/2001	0.180 U			0.0203 J	0.180 U			0.180 U	0.180 U	18.0 JNB
SC-1	'0-1	8/21/2001	0.220 U			0.0900 U	0.220 U			0.220 U	0.220 U	12.0 JNB
SC-2	'0-1	8/22/2001	0.170 U			0.0700 U	0.170 U			0.170 U	0.170 U	34.0 JNB
SC-3	'0-1	8/22/2001	0.200 U			0.0780 U	0.200 U			0.200 U	0.200 U	38.0 JNB
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.190 U			0.0770 U	0.190 U			0.190 U	0.190 U	17.0 JNB
SILO-B1-6-8	'6-8	9/6/2001	0.740 U			25.0	0.740 U			0.740 U	0.740 U	34.0 JNB
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.900 U			0.360 U	0.900 U			0.900 U	0.900 U	12.0 JNB
SILO-B3-0-0.5	'0-0.5	9/6/2001	1.00 U			0.410 U	1.00 U			1.00 U	1.00 U	23.0 JNB
SILO-B3-6-8	'6-8	9/6/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	13.0 JNB
SILO-B4-0-0.5	'0-0.5	9/6/2001	1.00 U			0.420 U	1.00 U			1.00 U	1.00 U	22.0 JNB
SPR-1-0-0.5	'0-0.5	9/5/2001	0.960 U			0.380 U	0.960 U			0.960 U	0.960 U	15.0 JNB
SPR-1-8-10	'8-10	9/5/2001	0.260 U			0.100 U	0.260 U			0.260 U	0.260 U	17.0 JNB
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.190 U			0.0499 J	0.190 U			0.190 U	0.190 U	4.30 JNB
SPR-2A-8-10	'8-10	7/19/2001	0.220 U			0.0880 U	0.220 U			0.220 U	0.220 U	4.50 JNB
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.180 U			0.0720 U	0.180 U			0.180 U	0.180 U	3.70 JNB
SPR-2B-10-12	'10-12	7/19/2001	0.250 U			0.100 U	0.250 U			0.250 U	0.250 U	5.70 JNB
SPR-3 0-.5	'0-0.5	8/21/2001	0.180 U			0.0720 U	0.180 U			0.180 U	0.180 U	29.0 JNB
SPR-3 4-6	'4-6	8/21/2001	0.210 U			0.0860 U	0.210 U			0.210 U	0.210 U	37.0 JNB
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.200 U			0.0810 U	0.200 U			0.200 U	0.200 U	4.20 JNB
SPR-4A-8-10	'8-10	7/19/2001	0.280 U			0.110 U	0.280 U			0.280 U	0.280 U	4.80 JNB
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.200 U			0.0800 U	0.200 U			0.200 U	0.200 U	86.0 JNB
SPR-4B-4-6	'4-6	8/23/2001	0.200 U			0.0800 U	0.200 U			0.200 U	0.200 U	35.0 JNB
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.920 U			0.370 U	0.920 U			0.920 U	0.920 U	51.0 JNB
SPR-4C-4-6	'4-6	8/23/2001	0.220 U			0.0253 J	0.220 U			0.220 U	0.220 U	24.0 JNB
SPR-5-0-0.5	'0-0.5	9/5/2001	5.20 U			2.10 U	5.20 U			5.20 U	5.20 U	210. JNB
SPR-5-2-4	'2-4	9/5/2001	0.220 U			0.0860 U	0.220 U			0.220 U	0.220 U	16.0 JNB
SPR-6-0.5-2	'0.5-2	9/13/2001	0.190 U			0.0750 U	0.190 U			0.190 U	0.190 U	13.0 JNB
SPR-6-0-0.5	'0-0.5	9/13/2001	0.170 U			0.0680 U	0.170 U			0.170 U	0.170 U	13.0 JNB
SR-1-0-.5	'0-0.5	7/17/2001	0.180 U			0.0710 U	0.180 U			0.180 U	0.180 U	5.40 JNB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001	0.170 U			0.0680 U	0.170 U			0.170 U	0.170 U	4.80 JNB
ST-1-0-0.5	'0-0.5	9/5/2001	1.00 U			0.400 U	1.00 U			1.00 U	1.00 U	18.0 JNB
ST-2-0-0.5	'0-0.5	9/5/2001	1.00 U			0.400 U	1.00 U			1.00 U	1.00 U	20.0 JNB
ST-3-0-0.5	'0-0.5	9/4/2001	0.200 U			0.0790 U	0.200 U			0.200 U	0.200 U	12.0 JNB
ST-3-4-6	'4-6	9/4/2001	0.260 U			0.100 U	0.260 U			0.260 U	0.260 U	10.0 JNB
TES-1-0-1	'0-1	12/5/2006	0.160 U			0.130 U	0.190 U			0.120 U	0.240 U	
TES-2-0-1	'0-1	12/4/2006	0.350 U			0.270 U	0.400 U			0.260 U	0.510 U	
TES-3-0-1	'0-1	12/4/2006	0.180 U			0.130 U	0.200 U			0.130 U	0.250 U	
TES-4-0-1	'0-1	12/5/2006	0.0320 U			0.170	0.0360 U			0.0230 U	0.0460 U	
TLN-1 .5-2	'0.5-2	8/20/2001	0.210 U			0.266	0.210 U			0.210 U	0.210 U	50.0 JNB
TLN-1 0-.5	'0-0.5	8/20/2001	0.210 U			0.0580 J	0.210 U			0.210 U	0.210 U	47.0 JNB
TLN-2-0-0.5	'0-0.5	7/19/2001	0.180 U			0.0740 U	0.180 U			0.180 U	0.180 U	4.00 JNB
TLN-3-0-.5	'0-0.5	7/17/2001	0.860 U			23.6	0.860 U			0.860 U	0.860 U	9.40 JNB
TLN-3-2-4	'2-4	7/17/2001	0.190 U			0.206	0.190 U			0.190 U	0.190 U	5.60 JNB
TLN-4 0-.5	'0-0.5	8/20/2001	0.170 U			0.0690 U	0.170 U			0.170 U	0.170 U	38.0 JNB
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.180 U			0.0730 U	0.180 U			0.180 U	0.180 U	47.0 JNB
TLN-5 .5-2	'0.5-2	8/20/2001	0.180 U			0.0720 U	0.180 U			0.180 U	0.180 U	40.0 JNB
TLN-5 0-.5	'0-0.5	8/20/2001	0.180 U			0.0720 U	0.180 U			0.180 U	0.180 U	48.0 JNB
TLN-5-4-6	'4-6	8/30/2001	0.180 U			0.0730 U	0.180 U			0.180 U	0.180 U	32.0 JNB
TLN-6 0-.5	'0-0.5	8/20/2001	0.180 U			0.0720 U	0.180 U			0.180 U	0.180 U	32.0 JNB
TLS-10 0-.5	'0-0.5	8/21/2001	0.190 U			0.0780 U	0.190 U			0.190 U	0.190 U	29.0 JNB
TLS-10 8-10	'8-10	8/21/2001	0.240 U			0.0762 J	0.240 U			0.240 U	0.240 U	42.0 JNB
TLS-1-0-0.5	'0-0.5	9/5/2001	0.970 U			0.390 U	0.970 U			0.970 U	0.970 U	18.0 JNB
TLS-11-0-0.5	'0-0.5	9/7/2001	0.190 U			0.0750 U	0.190 U	0.430 JN		0.190 U	0.190 U	6.80 JNB
TLS-2-0-0.5	'0-0.5	9/7/2001	0.940 U			0.370 U	0.940 U			0.940 U	0.940 U	
TLS-2-6-8	'6-8	9/7/2001	0.290 U			0.120 U	0.290 U			0.290 U	0.290 U	9.30 JNB
TLS-3 0-.5	'0-0.5	8/21/2001	0.180 U			0.0205 J	0.180 U			0.180 U	0.180 U	
TLS-4-0-0.5	'0-0.5	9/7/2001	0.180 U			0.0344 J	0.180 U			0.180 U	0.180 U	5.90 JNB
TLS-4-8-10	'8-10	9/7/2001	0.280 U			0.268	0.280 U			0.280 U	0.280 U	9.30 JNB
TLS-5 0-0.5	'0-0.5	8/21/2001	0.180 U			0.0710 U	0.180 U			0.180 U	0.180 U	88.0 JNB
TLS-5-8-10	'8-10	9/26/2001	0.260 U			0.0861 J	0.260 U			0.260 U	0.260 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Hexanol	2-Hexanone, 5-Methyl-	2-Methylnaphthalene	2-Methylphenol	2-Naphthalenemethanol, Decahydro-_	2-Naphthalenol	2-Nitroaniline	2-Nitrophenol	2-Pentanone, 4-Hydroxy-4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001	0.220 U			0.135	0.220 U			0.220 U	0.220 U	33.0 JNB
TLS-6-3-5	'3-5	9/26/2001	22.0 U			8.90 U	22.0 U			22.0 U	22.0 U	
TLS-7 0-.5	'0-0.5	8/21/2001	0.250 U			0.0308 J	0.250 U			0.250 U	0.250 U	
TLS-8-0-0.5	'0-0.5	9/7/2001	0.190 U			0.0760 U	0.190 U			0.190 U	0.190 U	7.40 JNB
TLS-8-6-8	'6-8	9/7/2001	0.220 U			0.0870 U	0.220 U			0.220 U	0.220 U	8.20 JNB
TLS-9 0-.5	'0-0.5	8/21/2001	0.910 U			0.360 U	0.910 U			0.910 U	0.910 U	84.0 JNB
TP-105	'0-0	6/8/2007	0.0290 U			0.0220 U	0.0330 U			0.0210 U	0.0410 U	
TP-105A	'0-0	6/8/2007	0.0280 U			0.0220 U	0.0330 U			0.0210 U	0.0410 U	
TP-106-A	'0-0	6/8/2007	0.0290 U			0.0220 U	0.0340 U			0.0220 U	0.0420 U	
TP-106-B	'0-0	6/8/2007	0.0290 U			0.0220 U	0.0330 U			0.0210 U	0.0410 U	
WWT-1-0-0.5	'0-0.5	7/19/2001	0.980 U			0.390 U	0.980 U			0.980 U	0.980 U	6.20 JNB
WWT-101-15-17	'15-17	11/6/2006	0.0360 U			0.0270 U	0.0410 U			0.0260 U	0.0520 U	
WWT-101-21-23	'21-23	11/6/2006	0.0340 U			0.0260 U	0.0390 U			0.0250 U	0.0490 U	
WWT-1-12-14	'12-14	8/23/2001	13.0 U			5.20 U	13.0 U			13.0 U	13.0 U	370. JNB
WWT-2-0-0.5	'0-0.5	8/23/2001	0.180 U			0.0720 U	0.180 U			0.180 U	0.180 U	31.0 JNB
WWT-2-12-14	'12-14	8/23/2001	0.630 U			0.250 U	0.630 U			0.630 U	0.630 U	100. JNB
WWT-3-0-0.5	'0-0.5	8/23/2001	0.900 U			0.360 U	0.900 U			0.900 U	0.900 U	70.0 JNB
WWT-3-12-14	'12-14	8/23/2001	0.390 U			0.0788 J	0.390 U			0.390 U	0.390 U	35.0 JNB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS					4		68			66		
12K-B1-0.5-2	'0.5-2	9/6/2001			0.2100 U	0.2100 U	0.8500 U	0.0850 U	0.2100 U	0.2100 U	0.0850 U	
12K-B1-0-0.5	'0-0.5	9/6/2001			0.2000 U	0.2000 U	0.7900 U	0.0790 U	0.2000 U	0.2000 U	0.0790 U	
12K-B2-0.5-2	'0.5-2	9/6/2001			0.2000 U	0.2000 U	0.7900 U	0.0790 U	0.2000 U	0.2000 U	0.0790 U	
12K-B2-0-0.5	'0-0.5	9/6/2001			0.2000 U	0.2000 U	0.8100 U	0.0810 U	0.2000 U	0.2000 U	0.0810 U	
150K-1-0.5-2	'0.5-2	9/10/2001			0.1900 U	0.1900 U	0.7700 U	0.0770 U	0.1900 U	0.1900 U	0.0770 U	
150K-1-0-0.5	'0-0.5	9/10/2001			1.0000 U	1.0000 U	4.0000 U	0.4000 U	1.0000 U	1.0000 U	0.4000 U	
230-B1-0.5	'0-0.5	10/2/2001	0.2000 JN		0.2000 U	0.2000 U	0.7900 U	0.0790 U	0.2000 U	0.2000 U	0.0790 U	
230-B10-0-0.5	'0-0.5	8/30/2001			0.2500 U	0.2500 U	0.9900 U	0.0990 U	0.2500 U	0.2500 U	0.0990 U	
230-B10-1.5-2	'1.5-2	8/30/2001			0.2100 U	0.2100 U	0.8600 U	0.0860 U	0.2100 U	0.2100 U	0.0860 U	
230-B11-0-0.5	'0-0.5	8/30/2001			0.1800 U	0.1800 U	0.7200 U	0.0720 U	0.1800 U	0.1800 U	0.0720 U	
230-B11-1.5-2	'1.5-2	8/30/2001			0.1800 U	0.1800 U	0.7200 U	0.0720 U	0.1800 U	0.1800 U	0.0720 U	
230-B1-4-6	'4-6	10/2/2001		7.9000 JN	0.9800 U	0.9800 U	3.9000 U	0.3900 U	0.9800 U	0.9800 U	0.3900 U	
230-B2-0-0.5	'0-0.5	8/30/2001			0.2000 U	0.2000 U	0.8000 U	0.0800 U	0.2000 U	0.2000 U	0.0800 U	
230-B2-1.5-2	'1.5-2	8/30/2001			0.1800 U	0.1800 U	0.7200 U	0.0720 U	0.1800 U	0.1800 U	0.0720 U	
230-B3-0-0.5	'0-0.5	8/30/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
230-B3-1.5-2	'1.5-2	8/30/2001			0.200 U	0.200 U	0.780 U	0.0780 U	0.200 U	0.112 J	0.0780 U	
230-B4-0-0.5	'0-0.5	8/30/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
230-B4-1.5-2	'1.5-2	8/30/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
230-B5-0-0.5	'0-0.5	9/13/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
230-B5-1.5-2	'1.5-2	9/13/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
230-B6 0-0.5	'0-0.5	8/22/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
230-B6 1.5-2	'1.5-2	8/22/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
230-B7 0-0.5	'0-0.5	8/22/2001			0.200 U	0.200 U	0.810 U	0.0810 U	0.200 U	0.200 U	0.0810 U	
230-B7 1.5-2	'1.5-2	8/22/2001			0.200 U	0.200 U	0.820 U	0.0820 U	0.200 U	0.200 U	0.0820 U	
230-B8 1.5-2	'1.5-2	8/22/2001			0.210 U	0.210 U	0.830 U	0.0830 U	0.210 U	0.210 U	0.0830 U	
230-B9 0-0.5	'0-0.5	8/22/2001			0.180 U	0.180 U	0.710 U	0.0710 U	0.180 U	0.180 U	0.0710 U	
230-B9 0-0.5	'0-0.5	8/22/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
230-B9 1.5-2	'1.5-2	8/22/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
231-B1-0-0.5	'0-0.5	10/5/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
231-B10-0-0.5	'0-0.5	9/17/2001			0.210 U	0.210 U	0.830 U	0.0830 U	0.210 U	0.210 U	0.0830 U	
231-B11-0-0.5	'0-0.5	9/19/2001			0.230 U	0.230 U	0.940 U	0.0940 U	0.230 U	0.230 U	0.0940 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001			0.210 U	0.210 U	0.850 U	0.0850 U	0.210 U	0.210 U	0.0850 U	
231-B12-0-0.5	'0-0.5	9/17/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
231-B13-0-0.5	'0-0.5	9/19/2001			0.960 U	0.960 U	3.90 U	0.390 U	0.960 U	0.960 U	0.390 U	
231-B13-8-10	'9-10	9/27/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
231-B14-0-0.5	'0-0.5	9/19/2001			0.200 U	0.200 U	0.820 U	0.0820 U	0.200 U	0.200 U	0.0820 U	
231-B2-0.5-2	'0.5-2	8/22/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
231-B2-0-0.5	'0-0.5	8/22/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
231-B3-0-0.5	'0-0.5	8/22/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
231-B4-0-0.5	'0-0.5	8/30/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
231-B4-6-8	'6-8	9/27/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
231-B5-0.5-2	'0.5-2	9/19/2001			0.210 U	0.210 U	0.840 U	0.0840 U	0.210 U	0.210 U	0.0840 U	
231-B6-0-0.5	'0-0.5	9/27/2001			0.230 U	0.230 U	0.910 U	0.0910 U	0.230 U	0.230 U	0.0910 U	
231-B6-4-6	'4-6	9/27/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
231-B7-0-0.5	'0-0.5	9/13/2001			1.00 U	1.00 U	4.10 U	0.410 U	1.00 U	1.00 U	0.410 U	
231-B8-0-0.5	'0-0.5	9/27/2001			0.390 UJ	0.390 UJ	1.60 UJ	0.160 UJ	0.390 UJ	0.390 UJ	0.160 UJ	
231-B8-8-10	'8-10	9/27/2001			16.0 U	16.0 U	65.0 U	6.50 U	16.0 U	16.0 U	6.50 U	
231-B9-0.5-2	'0.5-2	9/27/2001			0.230 U	0.230 U	0.940 U	0.0940 U	0.230 U	0.230 U	0.0940 U	
231-B9-0-0.5	'0-0.5	9/27/2001			1.20 U	1.20 U	4.70 U	0.470 U	1.20 U	1.20 U	0.470 U	
240-1-0-0.5	'0-0.5	9/26/2001			0.200 U	0.200 U	0.810 U	0.0810 U	0.200 U	0.200 U	0.0810 U	
240-1-8-10	'8-10	10/1/2001			0.200 U	0.200 U	0.810 U	0.0810 U	0.200 U	0.200 U	0.0810 U	
5K-B1-0-0.5	'0-0.5	10/1/2001			1.00 U	1.00 U	4.10 U	0.410 U	1.00 U	1.00 U	0.410 U	
5K-B2-0-0.5	'0-0.5	8/31/2001			0.180 U	0.180 U	0.710 U	0.0710 U	0.180 U	0.180 U	0.0710 U	
5K-B2-8-10	'8-10	8/31/2001			0.200 U	0.200 U	0.820 U	0.0820 U	0.200 U	0.200 U	0.0820 U	
5K-B3-0-0.5	'0-0.5	9/26/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
5K-B4-0-0.5	'0-0.5	10/1/2001			1.20 U	1.20 U	4.60 U	0.460 U	1.20 U	1.20 U	0.460 U	
5K-B4-4-6	'4-6	10/1/2001			1.40 U	1.40 U	5.50 U	0.550 U	1.40 U	1.40 U	0.550 U	
5K-B5-0-0.5	'0-0.5	8/31/2001			0.200 U	0.200 U	0.780 U	0.0780 U	0.200 U	0.183 J	0.0780 U	
5K-B5-4-6	'4-6	9/26/2001			0.220 U	0.220 U	0.870 U	0.0870 U	0.220 U	1.08	0.0870 U	
AB-1-0-0.5	'0-0.5	9/4/2001			0.200 U	0.200 U	0.780 U	0.0780 U	0.200 U	0.200 U	0.0780 U	
AB-2-0.5-2	'0.5-2	9/4/2001			0.220 U	0.220 U	0.870 U	0.0870 U	0.220 U	0.220 U	0.0870 U	
AB-2-0-0.5	'0-0.5	9/4/2001			0.200 U	0.200 U	0.810 U	0.0810 U	0.200 U	0.200 U	0.0810 U	
ADN-1-0-0.5	'0-0.5	9/5/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001			0.240 U	0.240 U	0.960 U	0.0960 U	0.240 U	0.532	0.0960 U	
ADN-2-0-0.5	'0-0.5	9/5/2001			0.200 U	0.200 U	0.820 U	0.0820 U	0.200 U	0.200 U	0.0820 U	
ADN-2-10-11	'10-11	9/27/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
ADS-1-0-.5	'0-0.5	7/17/2001			0.940 U	0.940 U	3.70 U	0.370 U	0.940 U	0.940 U	0.370 U	
ADS-10-0-0.5	'0-2	7/18/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
ADS-101-0-1	'0-1	12/5/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0490 U	0.0240 U	0.0180 U	
ADS-101-1-3	'1-3	12/5/2006			0.0360 U	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0240 U	0.0180 U	
ADS-102-0-1.5	'0-2	12/5/2006			0.0360 U	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0230 U	0.0180 U	
ADS-102-7-8	'4-8	12/5/2006			0.0380 U	0.0310 U	0.0350 U	0.0200 U	0.0510 U	0.0250 U	0.0190 U	
ADS-10-4-6	'4-6	7/18/2001			0.240 U	0.240 U	0.950 U	0.0950 U	0.240 U	0.0568 J	0.0950 U	
ADS-11-0-0.5	'0-2	7/18/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
ADS-12-0.5-2	'0.5-2	7/18/2001			0.220 U	0.220 U	0.870 U	0.0870 U	0.220 U	0.220 U	0.0870 U	
ADS-12-0-0.5	'0-0.5	7/18/2001			0.210 U	0.210 U	0.850 U	0.0850 U	0.210 U	0.210 U	0.0850 U	
ADS-2-0-0.5	'0-0.5	7/18/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
ADS-2-4-6	'4-6	7/18/2001			0.200 U	0.200 U	0.810 U	0.0810 U	0.200 U	0.200 U	0.0810 U	
ADS-3-0-0.5	'0-0.5	7/18/2001			0.190 U	0.190 U	0.780 U	0.0780 U	0.190 U	0.190 U	0.0780 U	
ADS-4-0-0.5	'0-2	7/18/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
ADS-4-12-14	'12-14	7/18/2001			0.210 U	0.210 U	0.850 U	0.0850 U	0.210 U	0.210 U	0.0850 U	
ADS-5-0-0.5	'0-0.5	7/18/2001			0.900 UJ	0.900 U	3.60 U	0.360 U	0.900 U	0.900 U	0.360 U	
ADS-5-4-6	'4-6	9/27/2001			0.190 U	0.190 U	0.740 U	0.0740 U	0.190 U	0.190 U	0.0740 U	
ADS-6-0.5-2	'0.5-2	7/18/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
ADS-6-0-0.5	'0-0.5	7/18/2001			0.950 U	0.950 U	3.80 U	0.380 U	0.950 U	0.950 U	0.380 U	
ADS-7-0-.5	'0-0.5	7/17/2001			0.900 U	0.900 U	3.60 U	0.360 U	0.900 U	0.900 U	0.360 U	
ADS-8-0-0.5	'0-0.5	7/18/2001			0.210 U	0.210 U	0.820 U	0.0820 U	0.210 U	0.210 U	0.0820 U	
ADS-8-4-6	'4-6	7/18/2001			0.210 U	0.210 U	0.830 U	0.0830 U	0.210 U	0.210 U	0.0830 U	
ADS-9-0-0.5	'0-0.5	7/18/2001			0.220 U	0.220 U	0.860 U	0.0860 U	0.220 U	0.220 U	0.0860 U	
BLIND DUP	'0-0	8/21/2001			0.180 U	0.180 U	0.710 U	0.0710 U	0.180 U	0.180 U	0.0710 U	
BSL-10-0-1	'0-1	9/21/2001			0.250 U	0.250 U	0.990 U	0.0990 U	0.250 U	0.250 U	0.0990 U	
BSL-1-0-1	'0-1	9/20/2001			0.200 U	0.200 U	0.790 U	0.0790 U	0.200 U	0.200 U	0.0790 U	
BSL-11-0-1	'0-1	9/26/2001			0.240 U	0.240 U	0.960 U	0.0960 U	0.240 U	0.240 U	0.0960 U	
BSL-12-0-1	'0-1	9/26/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
BSL-1-4-6	'4-6	9/20/2001			0.240 U	0.240 U	0.980 U	0.0980 U	0.240 U	0.240 U	0.0980 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001			0.250 U	0.250 U	1.00 U	0.100 U	0.250 U	0.250 U	0.100 U	
BSL-3-0-0.5	'0-0.5	9/20/2001			0.180 U	0.180 U	0.710 U	0.0710 U	0.180 U	0.180 U	0.0710 U	
BSL-4-0-1	'0-0.5	9/21/2001			0.220 U	0.220 U	0.860 U	0.0860 U	0.220 U	0.220 U	0.0860 U	
BSL-4-4-6	'4-6	9/21/2001			0.350 U	0.350 U	1.40 U	0.140 U	0.350 U	0.350 U	0.140 U	
BSL-5-0-.5	'0-0.5	9/21/2001			0.200 U	0.200 U	0.820 U	0.0820 U	0.200 U	0.200 U	0.0820 U	
BSL-6-0-1	'0-1	9/26/2001			0.270 U	0.270 U	1.10 U	0.110 U	0.270 U	0.270 U	0.110 U	
BSL-6-1-2	'1-2	9/26/2001			0.320 U	0.320 U	1.30 U	0.130 U	0.320 U	0.320 U	0.130 U	
BSL-7-0-.5	'0-0.5	9/21/2001			0.240 U	0.240 U	0.980 U	0.0980 U	0.240 U	0.240 U	0.0980 U	
BSL-8-0-1	'0-1	9/26/2001			0.300 U	0.300 U	1.20 U	0.120 U	0.300 U	0.300 U	0.120 U	
BSL-9-.5-2	'0.5-2	9/21/2001			0.270 U	0.270 U	1.10 U	0.110 U	0.270 U	0.270 U	0.110 U	
BSL-9-0-.5	'0-0.5	9/21/2001			0.210 U	0.210 U	0.840 U	0.0840 U	0.210 U	0.210 U	0.0840 U	
BT-B1-0-0.5	'0-0.5	9/18/2001			0.200 U	0.200 U	0.810 U	0.0810 U	0.200 U	0.200 U	0.0810 U	
BT-B2-0.5-2	'0.5-2	9/18/2001			0.200 U	0.200 U	0.790 U	0.0790 U	0.200 U	0.200 U	0.0790 U	
BT-B2-0-0.5	'0-0.5	9/18/2001			0.220 U	0.220 U	0.860 U	0.0860 U	0.220 U	0.220 U	0.0860 U	
BT-B3-0-0.5	'0-0.5	9/18/2001			0.960 U	0.960 U	3.90 U	0.390 U	0.960 U	0.960 U	0.390 U	
BT-B4-0.5-2	'0.5-2	8/30/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
BT-B4-0-0.5	'0-0.5	8/30/2001			0.840 U	0.840 U	3.40 U	0.340 U	0.840 U	0.840 U	0.340 U	
BT-B5-0-.5	'0-0.5	10/2/2001			0.200 U	0.200 U	0.810 U	0.0810 U	0.200 U	0.200 U	0.0810 U	
BT-B6-0.5-2	'0.5-2	9/17/2001			0.220 U	0.220 U	0.880 U	0.0880 U	0.220 U	0.220 U	0.0880 U	
BT-B6-0-0.5	'0-0.5	9/17/2001			0.860 U	0.860 U	3.40 U	0.340 U	0.860 U	0.860 U	0.340 U	
CF-1-0-0.5	'0-0.5	8/31/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
CF-1-2-4	'2-4	8/31/2001			0.190 U	0.190 U	0.740 U	0.0740 U	0.190 U	0.190 U	0.0740 U	
CF-2-0-0.5	'0-0.5	8/28/2001			0.210 U	0.210 U	0.820 U	0.0820 U	0.210 U	0.210 U	0.0820 U	
CF-3-0.5-2	'0.5-2	8/28/2001			0.330 U	0.330 U	1.30 U	0.130 U	0.330 U	0.330 U	0.130 U	
CF-3-0-0.5	'0-0.5	8/28/2001			0.250 U	0.250 U	0.990 U	0.0990 U	0.250 U	0.250 U	0.0990 U	
CF-4-0-0.5	'0-0.5	8/28/2001			0.220 U	0.220 U	0.870 U	0.0870 U	0.220 U	0.220 U	0.0870 U	
CF-5-0-0.5	'0-0.5	8/28/2001			0.170 U	0.170 U	0.700 U	0.0700 U	0.170 U	0.170 U	0.0700 U	
CF-5-4-6	'4-6	8/28/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
CF-6-0-0.5	'0-0.5	8/28/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
CF-7-0-0.5	'0-0.5	8/28/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
CF-7-4-6	'4-6	8/28/2001			0.180 U	0.180 U	0.700 U	0.0700 U	0.180 U	0.180 U	0.0700 U	
CF-8-0-0.5	'0-0.5	8/28/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001			0.180 U	0.180 U	0.720 U	0.0720 U	0.180 U	0.180 U	0.0720 U	
CF-9-0-0.5	'0-0.5	8/31/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
DC-B12-0-0.5	'0-0.5	10/3/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
DC-B12-2-4	'2-4	10/3/2001			0.180 U	0.180 U	0.730 U	0.0730 U	0.180 U	0.180 U	0.0730 U	
DC-SS1-0-0.5	'0-0.5	9/18/2001			0.180 U	0.180 U	0.730 U	0.0730 U	0.180 U	0.180 U	0.0730 U	
DC-SS11-0-0.5	'0-0.5	9/17/2001			0.920 U	0.920 U	3.70 U	0.370 U	0.920 U	0.920 U	0.370 U	
DC-SS13-0-0.5	'0-0.5	9/17/2001			0.860 U	0.860 U	3.50 U	0.350 U	0.860 U	0.860 U	0.350 U	
DC-SS15-0-0.5	'0-0.5	9/17/2001			1.00 U	1.00 U	4.10 U	0.410 U	1.00 U	1.00 U	0.410 U	
DC-SS17-0-0.5	'0-0.5	9/17/2001			0.210 U	0.210 U	0.850 U	0.0850 U	0.210 U	0.210 U	0.0850 U	
DC-SS2-0-0.5	'0-0.5	9/17/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
DC-SS3-0-0.5	'0-0.5	9/17/2001			0.220 U	0.220 U	0.880 U	0.0880 U	0.220 U	0.220 U	0.0880 U	
DC-SS6-0-0.5	'0-0.5	9/17/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
DC-SS7-0-0.5	'0-0.5	9/17/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
DC-SS9-0-0.5	'0-0.5	9/17/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
DSP-1-0-0.5	'0-0.5	10/3/2001			0.200 U	0.200 U	0.820 U	0.0820 U	0.200 U	0.200 U	0.0820 U	
DSP-1-4-6	'4-6	11/19/2001			0.210 U	0.210 U	0.820 U	0.0820 U	0.210 U	0.210 U	0.0820 U	
DSP-2-0-0.5	'0-0.5	9/4/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
DSP-3-0-0.5	'0-0.5	9/4/2001			0.940 U	0.940 U	3.80 U	0.380 U	0.940 U	0.940 U	0.380 U	
DSP-3-2-4	'2-4	9/4/2001			0.210 U	0.210 U	0.830 U	0.0830 U	0.210 U	0.210 U	0.0830 U	
DSP-4-0-0.5	'0-0.5	9/4/2001			0.210 U	0.210 U	0.850 U	0.0850 U	0.210 U	0.210 U	0.0850 U	
DSP-4-4-6	'4-6	9/26/2001			0.210 U	0.210 U	0.860 U	0.0860 U	0.210 U	0.0580 J	0.0860 U	
DUP-01-010824	'0-0.5	8/24/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
DUP-01-010831	'2-4	8/31/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
DUP-01-010904	'0-0.5	9/4/2001			0.920 U	0.920 U	3.70 U	0.370 U	0.920 U	0.920 U	0.370 U	
DUP-01-010905	'8-10	9/5/2001			0.210 U	0.210 U	0.840 U	0.0840 U	0.210 U	0.830	0.0840 U	
DUP-01-010906	'0-8	9/6/2001			0.760 U	0.760 U	3.10 U	0.310 U	0.760 U	0.760 U	0.310 U	
DUP-01-010913	'0-0.5	9/13/2001			0.960 U	0.960 U	3.80 U	0.380 U	0.960 U	0.960 U	0.380 U	
DUP-01-010917	'0-0.5	9/17/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
DUP-01-010926	'1-2	9/26/2001			0.320 U	0.320 U	1.30 U	0.130 U	0.320 U	0.320 U	0.130 U	
DUP-01-010927	'4-6	9/27/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
DUP-01-021001	'0-0	10/2/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
DUP-01-08 2201	'1.5-2	8/22/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
DUP-01-170402	'0-0	4/17/2002			0.460 U	0.460 U	1.80 U	0.180 U	0.460 U	0.460 U	0.180 U	
DUP-02-010913	'0-0.5	9/13/2001			1.10 U	1.10 U	4.30 U	0.430 U	1.10 U	1.10 U	0.430 U	
DUP-02-010921	'0-1	9/21/2001			0.230 U	0.230 U	0.910 U	0.0910 U	0.230 U	0.230 U	0.0910 U	
DUP-02-010926	'4-6	9/26/2001			0.220 U	0.220 U	0.900 U	0.0900 U	0.220 U	3.31	0.0900 U	
DUP060807	'0-0	6/8/2007			0.0330 U	0.0270 U	0.0300 U	0.0170 U	0.0440 U	0.0210 U	0.0160 U	
DUP-1-010828	'0-0.5	8/28/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
DUP-1-010921	'0-0.5	9/21/2001			0.260 U	0.260 U	1.00 U	0.100 U	0.260 U	0.260 U	0.100 U	
DUP110606	'15-17	11/6/2006			0.0400 U	0.0330 U	0.0370 U	0.0210 U	0.0530 U	0.0260 U	0.0200 U	
DUP112006	'16-18	11/20/2006			0.0620 U	0.0510 U	0.0570 U	0.0330 U	0.0830 U	0.0410 U	0.0310 U	
DUP112106	'10-12	11/21/2006			0.0650 U	0.0530 U	0.0600 U	0.0350 U	0.0870 U	0.0420 U	0.0320 U	
DUP-120506	'0-4	12/5/2006			0.0970 U	0.0790 U	0.0890 U	0.0520 U	0.130 U	0.0630 U	0.0480 U	
DUP-120606	'0-4	12/6/2006			0.0330 U	0.0270 U	0.0300 U	0.0170 U	0.0440 U	0.0210 U	0.0160 U	
DUPE071801	'0-0.5	7/18/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
EC-1	'0-1	8/21/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
EC-2	'0-1	8/21/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
EC-3	'0-1	8/21/2001			0.180 U	0.180 U	0.710 U	0.0710 U	0.180 U	0.180 U	0.0710 U	
EC-4	'0-1	8/21/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
EC-5	'0-1	8/21/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
EC-6	'0-1	8/21/2001			0.210 U	0.210 U	0.820 U	0.0820 U	0.210 U	0.210 U	0.0820 U	
EC-7	'0-1	8/21/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
EC-8	'0-1	8/21/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
EC-9	'0-1	8/21/2001			0.220 U	0.220 U	0.870 U	0.0870 U	0.220 U	0.220 U	0.0870 U	
ESR-1-0-1	'0-0.5	9/4/2001			0.180 U	0.180 U	0.710 U	0.0710 U	0.180 U	0.180 U	0.0710 U	
ESR-1-4-6	'4-6	9/4/2001			0.210 U	0.210 U	0.830 U	0.0830 U	0.210 U	0.210 U	0.0830 U	
HB-101A	'17-17	3/5/2007			0.0370 U	0.0300 U	0.0330 U	0.0200 U	0.0490 U	0.0240 U	0.0180 U	
HB-102A	'0-0	3/13/2007			0.0570 U	0.0460 U	0.0520 U	0.0300 U	0.0760 U	0.0370 U	0.0280 U	
HB-102B	'0-0	3/14/2007			0.0390 U	0.0320 U	0.0350 U	0.0210 U	0.0520 U	0.0250 U	0.0190 U	
HB-102C	'0-0	3/14/2007			0.0360 U	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0230 U	0.0180 U	
H-B-103A	'17-17	2/20/2007			0.0500 U	0.0410 U	0.0460 U	0.0270 U	0.0670 U	0.0330 U	0.0250 U	
H-B-104A	'17-17	2/23/2007			0.0390 U	0.0320 U	0.0360 U	0.0210 U	0.0520 U	0.0386 J	0.0190 U	
H-B-104B	'17-17	2/23/2007			0.0370 U	0.0300 U	0.0330 U	0.0200 U	0.0490 U	0.0240 U	0.0180 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007			0.0400 U	0.0330 U	0.0370 U	0.0210 U	0.0540 U	0.128 J	0.0200 U	
H-B-104D	'17-17	2/27/2007			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0490 U	0.0240 U	0.0180 U	
H-B-104E	'17-17	2/27/2007			0.0380 U	0.0310 U	0.0340 U	0.0200 U	0.0500 U	0.0240 U	0.0190 U	
H-B-105C	'17-17	2/8/2007			0.0360 U	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0230 U	0.0180 U	
H-B-105D	'17-17	2/8/2007			0.0390 U	0.0320 U	0.0360 U	0.0210 U	0.0520 U	0.0250 U	0.0190 U	
H-B-105E	'0-0	2/8/2007			0.0390 U	0.0310 U	0.0350 U	0.0210 U	0.0510 U	0.0250 U	0.0190 U	
HB-1A	'6.75-6.75	4/18/2002			0.300 U	0.300 U	1.20 U	0.120 U	0.300 U	0.300 U	0.120 U	
HB-3A	'5.25-5.25	4/17/2002			0.520 U	0.520 U	2.10 U	0.210 U	0.520 U	0.520 U	0.210 U	
HB-3B	'4.5-4.5	4/17/2002			0.200 U	0.200 U	0.780 U	0.0780 U	0.200 U	0.200 U	0.0780 U	
HB-3C	'4.5-4.5	4/18/2002			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
HB-3D	'4.5-4.5	4/18/2002			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
HB-4A	'5.33-5.33	4/19/2002			0.200 U	0.200 U	0.780 U	0.0780 U	0.200 U	0.200 U	0.0780 U	
HB-5A	'3-3	4/22/2002			0.210 U	0.210 U	0.830 U	0.0830 U	0.210 U	0.210 U	0.0830 U	
HB-7A	'5-5	4/19/2002			0.210 U	0.210 U	0.830 U	0.0830 U	0.210 U	0.210 U	0.0830 U	
HB-8A	'3-3	4/23/2002			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.0385 J	0.0800 U	
HB-8B	'4.83-4.83	4/23/2002			0.200 U	0.200 U	0.790 U	0.0790 U	0.200 U	0.200 U	0.0790 U	
HB-8C	'5.5-5.5	4/23/2002			0.200 U	0.200 U	0.820 U	0.0820 U	0.200 U	0.887	0.0820 U	
HB-9A	'4.75-4.75	4/24/2002			0.210 U	0.210 U	0.830 U	0.0830 U	0.210 U	0.210 U	0.0830 U	
HF-B1-0-0.5	'0-0.5	9/10/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
HF-B1-8-10	'8-10	9/10/2001			0.230 U	0.230 U	0.930 U	0.0930 U	0.230 U	0.230 U	0.0930 U	
HF-B2-0-0.5	'0-0.5	9/4/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
HF-B2-4-6	'4-6	9/4/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
HF-B3-0-.5	'0-0.5	10/2/2001	0.580 JN		0.190 U	0.190 U	0.740 U	0.0740 U	0.190 U	0.190 U	0.0740 U	
HF-B3-8-10	'8-10	10/2/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
IB-1-0-2	'0-2	4/8/2002			0.190 U	0.190 U	0.780 U	0.0780 U	0.190 U	0.190 U	0.0780 U	0.200 JN
IB-1-4-6	'4-6	4/8/2002			0.190 U	0.190 U	0.780 U	0.0780 U	0.190 U	0.190 U	0.0780 U	
IB-2-12-14	'12-14	4/8/2002			0.210 U	0.210 U	0.840 U	0.0840 U	0.210 U	0.210 U	0.0840 U	
IB-2-4-6	'4-6	4/8/2002			0.190 U	0.190 U	0.780 U	0.0780 U	0.190 U	0.190 U	0.0780 U	
IB-3-4-6	'4-6	4/8/2002			0.210 U	0.210 U	0.850 U	0.0850 U	0.210 U	0.210 U	0.0850 U	
IB-3-8-10	'8-10	4/8/2002			0.220 U	0.220 U	0.890 U	0.0890 U	0.220 U	0.220 U	0.0890 U	
LB-101-0-1	'0-1	12/6/2006			0.0340 U	0.0280 U	0.0310 U	0.0180 U	0.0450 U	0.0220 U	0.0170 U	
LB-101-1-3	'1-3	12/6/2006			0.0320 U	0.0260 U	0.0300 U	0.0170 U	0.0430 U	0.0210 U	0.0160 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006			0.0350 U	0.0290 U	0.0320 U	0.0190 U	0.0470 U	0.0230 U	0.0170 U	
LB-102-1-3	'3-7	12/6/2006			0.0350 U	0.0280 U	0.0320 U	0.0190 U	0.0470 U	0.0230 U	0.0170 U	
LB-103-0-1	'0-1	12/6/2006			0.0340 U	0.0280 U	0.0310 U	0.0180 U	0.0450 U	0.0220 U	0.0170 U	
LB-103-5-7	'5-7	12/6/2006			0.0390 U	0.0320 U	0.0360 U	0.0210 U	0.0520 U	0.0250 U	0.0190 U	
LHP-101-0-1	'0-1	12/4/2006			0.170 U	0.140 U	0.160 U	0.0930 U	0.230 U	0.110 U	0.0860 U	
LHP-101-5-8	'4-8	12/4/2006			0.130 U	0.100 U	0.110 U	0.0670 U	0.170 U	2.19	0.0620 U	
LHP-102-0-1	'0-1	12/5/2006			0.0360 U	0.0290 U	0.0330 U	0.0190 U	0.0470 U	0.0230 U	0.0180 U	
LHP-102-7-9	'7-9	12/5/2006			0.0440 U	0.0360 U	0.0400 U	0.0240 U	0.0590 U	0.352	0.0220 U	
LHP-103-0-1	'0-1	12/5/2006			0.180 U	0.140 U	0.160 U	0.0950 U	0.240 U	0.120 U	0.0880 U	
LHP-103-1-3	'1-3	12/5/2006			0.0390 U	0.0320 U	0.0350 U	0.0210 U	0.0520 U	0.0250 U	0.0190 U	
LHP-104-0-1	'0-1	12/5/2006			0.0330 U	0.0270 U	0.0300 U	0.0180 U	0.0440 U	0.0210 U	0.0160 U	
LHP-104-7-9	'4-8	12/5/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0500 U	0.0240 U	0.0180 U	
LHP-105-0-1	'0-1	12/5/2006			0.170 U	0.130 U	0.150 U	0.0880 U	0.220 U	0.110 U	0.0820 U	
LHP-105-1-3	'1-3	12/5/2006			0.0330 U	0.0270 U	0.0300 U	0.0180 U	0.0440 U	0.0220 U	0.0160 U	
LHP-106-0-1	'0-1	12/4/2006			0.160 UJ	0.130 U	0.150 U	0.0870 U	0.220 U	0.110 U	0.0810 U	
LHP-106-1-3	'1-3	12/4/2006			0.200 U	0.160 U	0.180 U	0.110 U	0.260 U	0.130 U	0.0980 U	
LHP-107-0-1	'0-1	12/5/2006			0.0340 U	0.0280 U	0.0310 U	0.0180 U	0.0460 U	0.0220 U	0.0170 U	
LHP-107-5-7	'4-8	12/5/2006			0.0360 U	0.0300 U	0.0330 U	0.0190 U	0.0480 U	0.0240 U	0.0180 U	
LHP-108-0-1	'0-1	12/6/2006			0.0360 UJ	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0230 U	0.0180 U	
LHP-108-3-7	'3-7	12/6/2006			0.0380 U	0.0310 U	0.0350 U	0.0210 U	0.0510 U	0.0250 U	0.0190 U	
LHP-109-0-1	'0-1	12/6/2006			0.0360 UJ	0.0300 U	0.0330 U	0.0190 U	0.0480 U	0.0240 U	0.0180 U	
LHP-109-7-9	'7-9	12/6/2006			0.0440 U	0.0350 U	0.0400 U	0.0230 U	0.0580 U	0.0280 U	0.0210 U	
LHP-110-0-1	'0-1	12/4/2006			0.360 U	0.290 U	0.330 UJ	0.190 U	0.480 U	0.240 U	0.180 U	
LHP-111-0-1	'0-1	12/4/2006			0.0350 U	0.0290 U	0.0320 U	0.0190 U	0.0470 U	0.0230 U	0.0170 U	
LHP-112-0-1	'0-1	12/4/2006			0.0360 UJ	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0230 U	0.0180 U	
LHP-113-0-1	'0-1	12/4/2006			0.0340 U	0.0270 U	0.0310 U	0.0180 U	0.0450 U	0.0220 U	0.0170 U	
LHP-114-0-1	'0-1	12/4/2006			0.0350 U	0.0280 U	0.0320 U	0.0180 U	0.0460 U	0.0230 U	0.0170 U	
LHP-115-0-1	'0-1	12/4/2006			0.0330 U	0.0270 U	0.0300 U	0.0180 U	0.0440 U	0.0220 U	0.0160 U	
LHP-116-0-1	'0-1	12/4/2006			0.0360 U	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0230 U	0.0180 U	
LHP-117-0-1	'0-1	12/4/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0490 U	0.0240 U	0.0180 U	
LHP-118-0-1	'0-1	12/4/2006			0.190 U	0.150 U	0.170 U	0.100 U	0.250 U	0.120 U	0.0920 U	
LHP-119-0-1	'0-1	12/4/2006			0.0370 U	0.0300 U	0.0330 U	0.0200 U	0.0490 U	0.0240 U	0.0180 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006			0.0410 U	0.0330 U	0.0370 U	0.0220 U	0.0540 U	0.0270 U	0.0200 U	
LHP-121-0-1	'0-1	12/6/2006			0.0360 U	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0230 U	0.0180 U	
LHP-122-0-1	'0-1	12/6/2006			0.0340 UJ	0.0280 U	0.0310 U	0.0180 U	0.0450 U	0.0220 U	0.0170 U	
LHP-123-0-1	'0-1	12/4/2006			0.0360 UJ	0.0300 U	0.0330 U	0.0190 U	0.0480 U	0.0240 U	0.0180 U	
LHP-124-.5-2	'0.5-2	10/27/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0490 U	0.0240 U	0.0180 U	
LHP-124-10-12	'10-12	10/31/2006			0.0590 U	0.0480 U	0.0540 U	0.0310 U	0.0780 U	0.0380 U	0.0290 U	
LHP-124-2-4	'2-4	10/27/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0500 U	0.0240 U	0.0180 U	
LHP-124-28-30	'28-30	10/31/2006			0.0440 U	0.0360 U	0.0400 U	0.0230 U	0.0590 U	0.0290 U	0.0220 U	
LHP-125-.5-2	'0.5-2	10/27/2006			0.0360 U	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0230 U	0.0180 U	
LHP-125-10.5-12	'10.5-12	11/1/2006			0.0410 U	0.0330 U	0.0370 U	0.0220 U	0.0540 U	0.0270 U	0.0200 U	
LHP-125-12-14	'12-14	11/1/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0490 U	0.0240 U	0.0180 U	
LHP-125-4-6	'4-6	10/27/2006			0.0350 U	0.0290 U	0.0320 U	0.0190 U	0.0470 U	0.0230 U	0.0170 U	
LHP-126-10.5-12	'10.5-12	11/1/2006			0.150 UJ	0.120 UJ	0.140 UJ	0.0810 UJ	0.200 UJ	0.0990 UJ	0.0750 UJ	
LHP-126-14-16	'14-16	11/1/2006			0.0380 U	0.0310 U	0.0350 U	0.0200 U	0.0500 U	0.0250 U	0.0190 U	
LHP-126-2-4	'2-4	10/26/2006			0.0350 UJ	0.0290 U	0.0320 U	0.0190 U	0.0470 U	0.0230 U	0.0170 U	
LHP-126-8-10	'9-10	10/26/2006			0.0390 UJ	0.0320 U	0.0360 U	0.0210 U	0.0520 U	0.0250 U	0.0190 U	
LHP-127-0-1	'0-1	12/6/2006			0.0340 UJ	0.0270 U	0.0310 U	0.0180 U	0.0450 U	0.0220 U	0.0170 U	
LHP-127-3-5	'3-5	12/6/2006			0.0330 U	0.0270 U	0.0310 U	0.0180 U	0.0450 U	0.0220 U	0.0160 U	
LHP-128-0-1	'0-4	12/6/2006			0.0330 U	0.0270 U	0.0300 U	0.0180 U	0.0440 U	0.0210 U	0.0160 U	
LHP-128-7-8	'17-17	12/6/2006			0.0440 U	0.0350 U	0.0400 U	0.0230 U	0.0580 U	0.195 J	0.0220 U	
LP-1-0-0.5	'0-0.5	8/27/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
LP-10-0.5-2	'0.5-2	8/27/2001			0.210 U	0.210 U	0.840 U	0.0840 U	0.210 U	0.210 U	0.0840 U	
LP-10-0-0.5	'0-0.5	8/27/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
LP-101-11-13	'11-13	11/2/2006			0.0590 U	0.0480 U	0.0540 U	0.0310 U	0.0790 U	0.0380 U	0.0290 U	
LP-101-14-16	'14-16	11/2/2006			0.0510 U	0.0420 U	0.0470 U	0.0270 U	0.0690 U	0.0330 U	0.0250 U	
LP-101-26-28	'26-28	11/2/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0490 U	0.0240 U	0.0180 U	
LP-101-50-52	'50-52	11/2/2006			0.0360 U	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0240 U	0.0180 U	
LP-11-0-0.5	'0-0.5	8/27/2001			0.210 U	0.210 U	0.840 U	0.0840 U	0.210 U	0.210 U	0.0840 U	
LP-12-0-0.5	'0-0.5	8/27/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
LP-12-4-6	'4-6	8/27/2001			0.180 U	0.180 U	0.730 U	0.0730 U	0.180 U	0.180 U	0.0730 U	
LP-13-0-0.5	'0-0.5	8/24/2001			0.210 U	0.210 U	0.840 U	0.0840 U	0.210 U	0.210 U	0.0840 U	
LP-14-0.5-2	'0.5-2	8/24/2001			0.180 U	0.180 U	0.710 U	0.0710 U	0.180 U	0.180 U	0.0710 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001			0.920 U	0.920 U	3.70 U	0.370 U	0.920 U	0.920 U	0.370 U	
LP-15-0-0.5	'0-0.5	8/24/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
LP-16-0.5-2	'0.5-2	8/27/2001			0.910 U	0.910 U	3.60 U	0.360 U	0.910 U	0.910 U	0.360 U	
LP-16-0-0.5	'0-0.5	8/27/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
LP-2-0.5-2	'0.5-2	8/28/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
LP-2-0-0.5	'0-0.5	8/28/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
LP-3-0-0.5	'0-0.5	8/27/2001			0.180 U	0.180 U	0.710 U	0.0710 U	0.180 U	0.180 U	0.0710 U	
LP-4 .5-2	'0.5-2	8/21/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
LP-4 0-.5	'0-0.5	8/21/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
LP-5-0-0.5	'0-0.5	8/27/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
LP-6-0-0.5	'0-0.5	8/27/2001			0.180 U	0.180 U	0.730 U	0.0730 U	0.180 U	0.180 U	0.0730 U	
LP-6-4-6	'4-6	8/27/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
LP-7-0-0.5	'0-0.5	8/24/2001			0.200 U	0.200 U	0.780 U	0.0780 U	0.200 U	0.200 U	0.0780 U	
LP-8-0-0.5	'0-0.5	8/24/2001			0.200 U	0.200 U	0.810 U	0.0810 U	0.200 U	0.200 U	0.0810 U	
LP-8-10-12	'10-12	8/24/2001			0.280 U	0.280 U	1.10 U	0.110 U	0.280 U	0.280 U	0.110 U	
LP-9-0-0.5	'0-0.5	8/24/2001			0.920 U	0.920 U	3.70 U	0.370 U	0.920 U	0.920 U	0.370 U	
MW-11D-12-14	'12-14	12/14/2006			0.0560 U	0.0460 U	0.0520 UJ	0.0300 U	0.0750 U	0.0370 U	0.0280 U	
MW-11D-14-16	'14-16	12/14/2006			0.0380 U	0.0310 U	0.0350 U	0.0200 U	0.0500 U	0.0250 U	0.0190 U	
MW-11D-16-18	'16-18	12/14/2006			0.0380 U	0.0310 U	0.0340 U	0.0200 U	0.0500 U	0.0240 U	0.0190 U	
MW-14D-13-15	'13-15	11/14/2006			0.0410 U	0.0330 U	0.0370 U	0.0220 U	0.0540 U	0.0260 U	0.0200 U	
MW-14D-17-19	'17-19	11/14/2006			0.0380 U	0.0310 U	0.0340 U	0.0200 U	0.0500 U	0.0240 U	0.0190 U	
MW-16D-13-15	'13-15	11/17/2006			0.0360 U	0.0300 U	0.0330 U	0.0190 U	0.0480 U	0.0240 U	0.0180 U	
MW-16D-17-19	'17-19	11/20/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0490 U	0.0240 U	0.0180 U	
MW-17D-15-17	'15-17	11/10/2006			0.0400 U	0.0330 U	0.0370 U	0.0220 U	0.0540 U	2.96	0.0200 U	
MW-17D-17-19	'17-19	11/10/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0490 U	0.0240 U	0.0180 U	
MW-18D-13-15	'13-15	11/13/2006			0.0400 U	0.0320 U	0.0360 U	0.0210 U	0.0530 U	0.0260 U	0.0200 U	
MW-18D-17-19	'17-19	11/13/2006			0.0360 U	0.0300 U	0.0330 U	0.0190 U	0.0490 U	0.0240 U	0.0180 U	
MW-20D-12-14	'12-14	11/9/2006			0.0390 U	0.0310 U	0.0350 U	0.0210 U	0.0520 U	0.0250 U	0.0190 U	
MW-20D-32-34	'32-32.9	11/10/2006			0.0360 U	0.0300 U	0.0330 U	0.0190 U	0.0490 U	0.0240 U	0.0180 U	
MW-20D-36-38	'36-38	11/10/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0490 U	0.0885 J	0.0180 U	
MW-21D-13-15	'13-13.7	11/16/2006			0.0390 U	0.0320 U	0.0360 U	0.0210 U	0.0530 U	0.0260 U	0.0190 U	
MW-21D-15-17	'15-17	11/16/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0500 U	0.0240 U	0.0180 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006			0.0390 U	0.0320 U	0.0360 U	0.0210 U	0.0520 U	0.0260 U	0.0190 U	
MW-23D-37-39	'37-37.9	11/15/2006			0.0360 U	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0240 U	0.0180 U	
MW-25D-10-12	'10-12	11/21/2006			0.0670 U	0.0540 U	0.0610 U	0.0360 U	0.0890 U	0.0440 U	0.0330 U	
MW-25D-33-35	'33-35	12/18/2006			0.0400 U	0.0330 U	0.0370 U	0.0210 U	0.0540 U	0.0260 U	0.0200 U	
MW-26S-8-10	'8-10	10/26/2006			0.0420 UJ	0.0340 U	0.0380 UJ	0.0220 UJ	0.0560 U	0.0270 U	0.0210 U	
MW-6D-0-2	'0-2	11/8/2006			0.0360 U	0.0290 U	0.0330 U	0.0190 U	0.0480 U	0.0230 U	0.0180 U	
MW-6D-12-14	'12-14	11/8/2006			0.0840 U	0.0680 U	0.0760 U	0.0450 U	0.110 U	0.0540 U	0.0410 U	
MW-6D-16-18	'16-18	11/20/2006			0.0590 U	0.0480 U	0.0540 U	0.0310 U	0.0780 U	0.0380 U	0.0290 U	
MW-6D-30-32	'30-32	11/21/2006			0.0370 U	0.0300 U	0.0340 U	0.0200 U	0.0500 U	0.0240 U	0.0180 U	
PCA-1-0-.5	'0-2	7/17/2001			0.900 U	0.900 U	3.60 U	0.360 U	0.900 U	0.900 U	0.360 U	
PCA-1-4-6	'4-6	7/17/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
PCA-2-0-.5	'0-0.5	7/17/2001			0.180 U	0.180 U	0.730 U	0.0730 U	0.180 U	0.180 U	0.0730 U	
PCA-3-0-0.5	'0-0.5	9/13/2001			0.390 U	0.390 U	1.60 U	0.160 U	0.390 U	0.390 U	0.160 U	
PCA-3-4-6	'4-6	9/13/2001			0.210 U	0.210 U	0.850 U	0.0850 U	0.210 U	0.210 U	0.0850 U	
PCA-4-0-0.5	'0-0.5	9/13/2001			0.950 U	0.950 U	3.80 U	0.380 U	0.950 U	0.950 U	0.380 U	
PCA-4-4-6	'4-6	9/26/2001			0.210 U	0.210 U	0.830 U	0.0830 U	0.210 U	0.210 U	0.0830 U	
PCA-5-0.5-2	'0.5-2	9/7/2001			0.190 U	0.190 U	0.780 U	0.0780 U	0.190 U	0.190 U	0.0780 U	
PCA-5-0-0.5	'0-0.5	9/7/2001			0.210 U	0.210 U	0.850 U	0.0850 U	0.210 U	0.210 U	0.0850 U	
PCA-6-0-0.5	'0-0.5	9/7/2001			0.180 U	0.180 U	0.710 U	0.0710 U	0.180 U	0.180 U	0.0710 U	
RR-1 0-0.5	'0-0.5	8/22/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
RR-1 14-16	'14-16	8/22/2001			0.200 U	0.200 U	0.820 U	0.0820 U	0.200 U	0.200 U	0.0820 U	
RR-10 0-.5	'0-0.5	10/12/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
RR-11 0-.5	'0-0.5	10/12/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
RR-12 0-.5	'0-0.5	10/12/2001			0.200 U	0.200 U	0.780 U	0.0780 U	0.200 U	0.200 U	0.0780 U	
RR-2-0-0.5	'0-0.5	9/13/2001			1.00 U	1.00 U	4.20 U	0.420 U	1.00 U	1.00 U	0.420 U	
RR-2-8-10	'8-10	9/13/2001			0.250 U	0.250 U	0.990 U	0.0990 U	0.250 U	0.250 U	0.0990 U	
RR-3-0-0.5	'0-0.5	9/13/2001			0.180 U	0.180 U	0.720 U	0.0720 U	0.180 U	0.180 U	0.0720 U	
RR-4-0-0.5	'0-0.5	9/10/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
RR-4-6-8	'6-8	9/13/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
RR-5-0-0.5	'0-0.5	9/10/2001			0.170 U	0.170 U	0.690 U	0.0690 U	0.170 U	0.170 U	0.0690 U	
RR-6-0-0.5	'0-0.5	9/10/2001			0.180 U	0.180 U	0.720 U	0.0720 U	0.180 U	0.180 U	0.0720 U	
RR-6-8-10	'8-10	9/10/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
RR-8-0-0.5	'0-0.5	9/26/2001			0.220 U	0.220 U	0.860 U	0.0860 U	0.220 U	0.220 U	0.0860 U	
RR-8-6-8	'6-8	9/26/2001			0.340 U	0.340 U	1.40 U	0.140 U	0.340 U	0.340 U	0.140 U	
RR-9 0-.5	'0-0.5	10/12/2001			0.180 U	0.180 U	0.730 U	0.0730 U	0.180 U	0.180 U	0.0730 U	
SC-1	'0-1	8/21/2001			0.220 U	0.220 U	0.900 U	0.0900 U	0.220 U	0.220 U	0.0900 U	
SC-2	'0-1	8/22/2001			0.170 U	0.170 U	0.700 U	0.0700 U	0.170 U	0.170 U	0.0700 U	
SC-3	'0-1	8/22/2001			0.200 U	0.200 U	0.780 U	0.0780 U	0.200 U	0.200 U	0.0780 U	
SILO-B1-0-0.5	'0-0.5	9/6/2001			0.190 U	0.190 U	0.770 U	0.0770 U	0.190 U	0.190 U	0.0770 U	
SILO-B1-6-8	'6-8	9/6/2001			0.740 U	0.740 U	3.00 U	0.300 U	0.740 U	0.740 U	0.300 U	
SILO-B2-0-0.5	'0-0.5	9/6/2001			0.900 U	0.900 U	3.60 U	0.360 U	0.900 U	0.900 U	0.360 U	
SILO-B3-0-0.5	'0-0.5	9/6/2001			1.00 U	1.00 U	4.10 U	0.410 U	1.00 U	1.00 U	0.410 U	
SILO-B3-6-8	'6-8	9/6/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
SILO-B4-0-0.5	'0-0.5	9/6/2001			1.00 U	1.00 U	4.20 U	0.420 U	1.00 U	1.00 U	0.420 U	
SPR-1-0-0.5	'0-0.5	9/5/2001			0.960 U	0.960 U	3.80 U	0.380 U	0.960 U	0.960 U	0.380 U	
SPR-1-8-10	'8-10	9/5/2001			0.260 U	0.260 U	1.00 U	0.100 U	0.260 U	0.260 U	0.100 U	
SPR-2A-0-0.5	'0-0.5	7/19/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
SPR-2A-8-10	'8-10	7/19/2001			0.220 U	0.220 U	0.880 U	0.0880 U	0.220 U	0.220 U	0.0880 U	
SPR-2B-0-0.5	'0-0.5	7/19/2001			0.180 U	0.180 U	0.720 U	0.0720 U	0.180 U	0.180 U	0.0720 U	
SPR-2B-10-12	'10-12	7/19/2001			0.250 U	0.250 U	1.00 U	0.100 U	0.250 U	0.250 U	0.100 U	
SPR-3 0-.5	'0-0.5	8/21/2001			0.180 U	0.180 U	0.720 U	0.0720 U	0.180 U	0.180 U	0.0720 U	
SPR-3 4-6	'4-6	8/21/2001			0.210 U	0.210 U	0.860 U	0.0860 U	0.210 U	0.210 U	0.0860 U	
SPR-4A-0-0.5	'0-0.5	7/19/2001			0.200 U	0.200 U	0.810 U	0.0810 U	0.200 U	0.200 U	0.0810 U	
SPR-4A-8-10	'8-10	7/19/2001			0.280 U	0.280 U	1.10 U	0.110 U	0.280 U	0.280 U	0.110 U	
SPR-4B-0-0.5	'0-0.5	8/22/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	0.200 U	0.0800 U	
SPR-4B-4-6	'4-6	8/23/2001			0.200 U	0.200 U	0.800 U	0.0800 U	0.200 U	1.48	0.0800 U	
SPR-4C-0-0.5	'0-0.5	8/23/2001			0.920 U	0.920 U	3.70 U	0.370 U	0.920 U	0.920 U	0.370 U	
SPR-4C-4-6	'4-6	8/23/2001			0.220 U	0.220 U	0.860 U	0.0860 U	0.220 U	0.602	0.0860 U	
SPR-5-0-0.5	'0-0.5	9/5/2001			5.20 U	5.20 U	21.0 U	2.10 U	5.20 U	5.20 U	2.10 U	20.0 JN
SPR-5-2-4	'2-4	9/5/2001			0.220 U	0.220 U	0.860 U	0.0860 U	0.220 U	0.220 U	0.0860 U	
SPR-6-0.5-2	'0.5-2	9/13/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
SPR-6-0-0.5	'0-0.5	9/13/2001			0.170 U	0.170 U	0.680 U	0.0680 U	0.170 U	0.170 U	0.0680 U	
SR-1-0-.5	'0-0.5	7/17/2001			0.180 U	0.180 U	0.710 U	0.0710 U	0.180 U	0.180 U	0.0710 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001			0.170 U	0.170 U	0.680 U	0.0680 U	0.170 U	0.170 U	0.0680 U	
ST-1-0-0.5	'0-0.5	9/5/2001			1.00 U	1.00 U	4.00 U	0.400 U	1.00 U	1.00 U	0.400 U	
ST-2-0-0.5	'0-0.5	9/5/2001			1.00 U	1.00 U	4.00 U	0.400 U	1.00 U	1.00 U	0.400 U	
ST-3-0-0.5	'0-0.5	9/4/2001			0.200 U	0.200 U	0.790 U	0.0790 U	0.200 U	0.200 U	0.0790 U	
ST-3-4-6	'4-6	9/4/2001	1.30 JN		0.260 U	0.260 U	1.00 U	0.100 U	0.260 U	0.260 U	0.100 U	
TES-1-0-1	'0-1	12/5/2006			0.180 U	0.150 U	0.170 U	0.0980 U	0.240 U	0.120 U	0.0900 U	
TES-2-0-1	'0-1	12/4/2006			0.390 U	0.320 U	0.360 U	0.210 U	0.520 U	0.250 U	0.190 U	
TES-3-0-1	'0-1	12/4/2006			0.200 U	0.160 U	0.180 U	0.100 U	0.260 U	0.130 U	0.0960 U	
TES-4-0-1	'0-1	12/5/2006			0.0350 U	0.0290 U	0.0320 U	0.0190 U	0.0470 U	0.0230 U	0.0170 U	
TLN-1 .5-2	'0.5-2	8/20/2001			0.210 U	0.210 U	0.840 U	0.0840 U	0.210 U	0.210 U	0.0840 U	
TLN-1 0-.5	'0-0.5	8/20/2001			0.210 U	0.210 U	0.830 U	0.0830 U	0.210 U	0.210 U	0.0830 U	
TLN-2-0-0.5	'0-0.5	7/19/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
TLN-3-0-.5	'0-0.5	7/17/2001			0.860 U	0.860 U	3.40 U	0.340 U	0.860 U	0.860 U	0.340 U	
TLN-3-2-4	'2-4	7/17/2001			0.190 U	0.190 U	0.780 U	0.0780 U	0.190 U	0.190 U	0.0780 U	
TLN-4 0-.5	'0-0.5	8/20/2001			0.170 U	0.170 U	0.690 U	0.0690 U	0.170 U	0.170 U	0.0690 U	
TLN-4 0-.5 DUP	'0-0.5	8/20/2001			0.180 U	0.180 U	0.730 U	0.0730 U	0.180 U	0.180 U	0.0730 U	
TLN-5 .5-2	'0.5-2	8/20/2001			0.180 U	0.180 U	0.720 U	0.0720 U	0.180 U	0.180 U	0.0720 U	
TLN-5 0-.5	'0-0.5	8/20/2001			0.180 U	0.180 U	0.720 U	0.0720 U	0.180 U	0.180 U	0.0720 U	
TLN-5-4-6	'4-6	8/30/2001			0.180 U	0.180 U	0.730 U	0.0730 U	0.180 U	0.180 U	0.0730 U	
TLN-6 0-.5	'0-0.5	8/20/2001			0.180 U	0.180 U	0.720 U	0.0720 U	0.180 U	0.180 U	0.0720 U	
TLS-10 0-.5	'0-0.5	8/21/2001			0.190 U	0.190 U	0.780 U	0.0780 U	0.190 U	0.190 U	0.0780 U	
TLS-10 8-10	'8-10	8/21/2001			0.240 U	0.240 U	0.970 U	0.0970 U	0.240 U	0.240 U	0.0970 U	
TLS-1-0-0.5	'0-0.5	9/5/2001			0.970 U	0.970 U	3.90 U	0.390 U	0.970 U	0.970 U	0.390 U	
TLS-11-0-0.5	'0-0.5	9/7/2001			0.190 U	0.190 U	0.750 U	0.0750 U	0.190 U	0.190 U	0.0750 U	
TLS-2-0-0.5	'0-0.5	9/7/2001			0.940 U	0.940 U	3.70 U	0.370 U	0.940 U	0.940 U	0.370 U	
TLS-2-6-8	'6-8	9/7/2001			0.290 U	0.290 U	1.20 U	0.120 U	0.290 U	0.290 U	0.120 U	
TLS-3 0-.5	'0-0.5	8/21/2001			0.180 U	0.180 U	0.740 U	0.0740 U	0.180 U	0.180 U	0.0740 U	
TLS-4-0-0.5	'0-0.5	9/7/2001			0.180 U	0.180 U	0.730 U	0.0730 U	0.180 U	0.180 U	0.0730 U	
TLS-4-8-10	'8-10	9/7/2001			0.280 U	0.280 U	1.10 U	0.110 U	0.280 U	0.280 U	0.110 U	
TLS-5 0-0.5	'0-0.5	8/21/2001			0.180 U	0.180 U	0.710 U	0.0710 U	0.180 U	0.180 U	0.0710 U	
TLS-5-8-10	'8-10	9/26/2001			0.260 U	0.260 U	1.00 U	0.100 U	0.260 U	0.260 U	0.100 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Phenylnaphthalene	2-Propanone, 1,3-Diphenyl-	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4h-Cyclopenta_def_phenanthrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001			0.220 U	0.220 U	0.900 U	0.0900 U	0.220 U	0.220 U	0.0900 U	
TLS-6-3-5	'3-5	9/26/2001			22.0 U	22.0 U	89.0 U	8.90 U	22.0 U	22.0 U	8.90 U	
TLS-7 0-.5	'0-0.5	8/21/2001			0.250 U	0.250 U	0.990 U	0.0990 U	0.250 U	0.250 U	0.0990 U	
TLS-8-0-0.5	'0-0.5	9/7/2001			0.190 U	0.190 U	0.760 U	0.0760 U	0.190 U	0.190 U	0.0760 U	
TLS-8-6-8	'6-8	9/7/2001			0.220 U	0.220 U	0.870 U	0.0870 U	0.220 U	0.220 U	0.0870 U	
TLS-9 0-.5	'0-0.5	8/21/2001			0.910 U	0.910 U	3.60 U	0.360 U	0.910 U	0.910 U	0.360 U	
TP-105	'0-0	6/8/2007			0.0320 U	0.0260 U	0.0290 U	0.0170 U	0.0420 U	0.0210 U	0.0160 U	
TP-105A	'0-0	6/8/2007			0.0320 U	0.0260 U	0.0290 U	0.0170 U	0.0420 U	0.0210 U	0.0160 U	
TP-106-A	'0-0	6/8/2007			0.0330 U	0.0270 U	0.0300 U	0.0170 U	0.0430 U	0.0210 U	0.0160 U	
TP-106-B	'0-0	6/8/2007			0.0320 U	0.0260 U	0.0290 U	0.0170 U	0.0420 U	0.0210 U	0.0160 U	
WWT-1-0-0.5	'0-0.5	7/19/2001			0.980 UJ	0.980 U	3.90 U	0.390 U	0.980 U	0.980 U	0.390 U	
WWT-101-15-17	'15-17	11/6/2006			0.0400 U	0.0320 U	0.0360 U	0.0210 U	0.0530 U	0.0260 U	0.0200 U	
WWT-101-21-23	'21-23	11/6/2006			0.0380 U	0.0310 U	0.0340 U	0.0200 U	0.0500 U	0.0250 U	0.0190 U	
WWT-1-12-14	'12-14	8/23/2001			13.0 U	13.0 U	52.0 U	5.20 U	13.0 U	13.0 U	5.20 U	
WWT-2-0-0.5	'0-0.5	8/23/2001			0.180 U	0.180 U	0.720 U	0.0720 U	0.180 U	0.180 U	0.0720 U	
WWT-2-12-14	'12-14	8/23/2001			0.630 U	0.630 U	2.50 U	0.250 U	0.630 U	0.630 U	0.250 U	
WWT-3-0-0.5	'0-0.5	8/23/2001			0.900 U	0.900 U	3.60 U	0.360 U	0.900 U	0.900 U	0.360 U	
WWT-3-12-14	'12-14	8/23/2001			0.390 U	0.390 U	1.60 U	0.160 U	0.390 U	0.390 U	0.160 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS											
12K-B1-0.5-2	'0.5-2	9/6/2001	0.2100 U	0.8500 U							
12K-B1-0-0.5	'0-0.5	9/6/2001	0.2000 U	0.7900 U							
12K-B2-0.5-2	'0.5-2	9/6/2001	0.2000 U	0.7900 U							
12K-B2-0-0.5	'0-0.5	9/6/2001	0.2000 U	0.8100 U							
150K-1-0.5-2	'0.5-2	9/10/2001	0.1900 U	0.7700 U							
150K-1-0-0.5	'0-0.5	9/10/2001	1.0000 U	4.0000 U							
230-B1-0.5	'0-0.5	10/2/2001	0.2000 U	0.7900 U							
230-B10-0-0.5	'0-0.5	8/30/2001	0.2500 U	0.9900 U							
230-B10-1.5-2	'1.5-2	8/30/2001	0.2100 U	0.8600 U							
230-B11-0-0.5	'0-0.5	8/30/2001	0.1800 U	0.7200 U							
230-B11-1.5-2	'1.5-2	8/30/2001	0.1800 U	0.7200 U							
230-B1-4-6	'4-6	10/2/2001	0.9800 U	3.9000 U							
230-B2-0-0.5	'0-0.5	8/30/2001	0.2000 U	0.8000 U		0.6400 JN					
230-B2-1.5-2	'1.5-2	8/30/2001	0.1800 U	0.7200 U							
230-B3-0-0.5	'0-0.5	8/30/2001	0.190 U	0.760 U							
230-B3-1.5-2	'1.5-2	8/30/2001	0.200 U	0.780 U		0.400 JN					
230-B4-0-0.5	'0-0.5	8/30/2001	0.200 U	0.800 U							
230-B4-1.5-2	'1.5-2	8/30/2001	0.190 U	0.760 U							
230-B5-0-0.5	'0-0.5	9/13/2001	0.200 U	0.800 U							
230-B5-1.5-2	'1.5-2	9/13/2001	0.190 U	0.750 U							
230-B6 0-0.5	'0-0.5	8/22/2001	0.190 U	0.760 U							
230-B6 1.5-2	'1.5-2	8/22/2001	0.190 U	0.760 U		0.390 JN					
230-B7 0-0.5	'0-0.5	8/22/2001	0.200 U	0.810 U							
230-B7 1.5-2	'1.5-2	8/22/2001	0.200 U	0.820 U		0.550 JN					
230-B8 1.5-2	'1.5-2	8/22/2001	0.210 U	0.830 U							
230-B9 0-0.5	'0-0.5	8/22/2001	0.180 U	0.710 U							
230-B9 0-0.5	'0-0.5	8/22/2001	0.190 U	0.770 U							
230-B9 1.5-2	'1.5-2	8/22/2001	0.190 U	0.750 U							
231-B1-0-0.5	'0-0.5	10/5/2001	0.190 U	0.750 U		0.200 JN					
231-B10-0-0.5	'0-0.5	9/17/2001	0.210 U	0.830 U							
231-B11-0-0.5	'0-0.5	9/19/2001	0.230 U	0.940 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001	0.210 U	0.850 U							
231-B12-0-0.5	'0-0.5	9/17/2001	0.190 U	0.750 U							
231-B13-0-0.5	'0-0.5	9/19/2001	0.960 U	3.90 U							
231-B13-8-10	'9-10	9/27/2001	0.190 U	0.770 U		0.660 JN					
231-B14-0-0.5	'0-0.5	9/19/2001	0.200 U	0.820 U							
231-B2-0.5-2	'0.5-2	8/22/2001	0.180 U	0.740 U		2.00 JN					
231-B2-0-0.5	'0-0.5	8/22/2001	0.180 U	0.740 U							
231-B3-0-0.5	'0-0.5	8/22/2001	0.190 U	0.770 U							
231-B4-0-0.5	'0-0.5	8/30/2001	0.190 U	0.770 U		0.320 JN					
231-B4-6-8	'6-8	9/27/2001	0.200 U	0.800 U		0.190 JN					
231-B5-0.5-2	'0.5-2	9/19/2001	0.210 U	0.840 U							
231-B6-0-0.5	'0-0.5	9/27/2001	0.230 U	0.910 U							
231-B6-4-6	'4-6	9/27/2001	0.190 U	0.750 U							
231-B7-0-0.5	'0-0.5	9/13/2001	1.00 U	4.10 U							
231-B8-0-0.5	'0-0.5	9/27/2001	0.390 UJ	1.60 UJ							
231-B8-8-10	'8-10	9/27/2001	16.0 U	65.0 U		47.0 JN					17.0 JN
231-B9-0.5-2	'0.5-2	9/27/2001	0.230 U	0.940 U		1.70 JN					
231-B9-0-0.5	'0-0.5	9/27/2001	1.20 U	4.70 U							
240-1-0-0.5	'0-0.5	9/26/2001	0.200 U	0.810 U							
240-1-8-10	'8-10	10/1/2001	0.200 U	0.810 U							
5K-B1-0-0.5	'0-0.5	10/1/2001	1.00 U	4.10 U							
5K-B2-0-0.5	'0-0.5	8/31/2001	0.180 U	0.710 U							
5K-B2-8-10	'8-10	8/31/2001	0.200 U	0.820 U		0.400 JN					
5K-B3-0-0.5	'0-0.5	9/26/2001	0.200 U	0.800 U							
5K-B4-0-0.5	'0-0.5	10/1/2001	1.20 U	4.60 U							
5K-B4-4-6	'4-6	10/1/2001	1.40 U	5.50 U							
5K-B5-0-0.5	'0-0.5	8/31/2001	0.200 U	0.780 U							
5K-B5-4-6	'4-6	9/26/2001	0.220 U	0.870 U							
AB-1-0-0.5	'0-0.5	9/4/2001	0.200 U	0.780 U							
AB-2-0.5-2	'0.5-2	9/4/2001	0.220 U	0.870 U							
AB-2-0-0.5	'0-0.5	9/4/2001	0.200 U	0.810 U							
ADN-1-0-0.5	'0-0.5	9/5/2001	0.190 U	0.760 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001	0.240 U	0.960 U		5.20 JN					
ADN-2-0-0.5	'0-0.5	9/5/2001	0.200 U	0.820 U							
ADN-2-10-11	'10-11	9/27/2001	0.200 U	0.800 U							
ADS-1-0-.5	'0-0.5	7/17/2001	0.940 U	3.70 U							
ADS-10-0-0.5	'0-2	7/18/2001	0.190 U	0.770 U							
ADS-101-0-1	'0-1	12/5/2006	0.0270 U	0.0530 U		0.860 JN					
ADS-101-1-3	'1-3	12/5/2006	0.0260 U	0.0520 U							
ADS-102-0-1.5	'0-2	12/5/2006	0.0260 U	0.0510 U							
ADS-102-7-8	'4-8	12/5/2006	0.0280 U	0.0550 U							
ADS-10-4-6	'4-6	7/18/2001	0.240 U	0.950 U							
ADS-11-0-0.5	'0-2	7/18/2001	0.190 U	0.760 U		0.330 JN					
ADS-12-0.5-2	'0.5-2	7/18/2001	0.220 U	0.870 U							
ADS-12-0-0.5	'0-0.5	7/18/2001	0.210 U	0.850 U							
ADS-2-0-0.5	'0-0.5	7/18/2001	0.200 U	0.800 U							
ADS-2-4-6	'4-6	7/18/2001	0.200 U	0.810 U							
ADS-3-0-0.5	'0-0.5	7/18/2001	0.190 U	0.780 U							
ADS-4-0-0.5	'0-2	7/18/2001	0.190 U	0.770 U							
ADS-4-12-14	'12-14	7/18/2001	0.210 U	0.850 U		1.60 JN					
ADS-5-0-0.5	'0-0.5	7/18/2001	0.900 U	3.60 U							
ADS-5-4-6	'4-6	9/27/2001	0.190 U	0.740 U							
ADS-6-0.5-2	'0.5-2	7/18/2001	0.190 U	0.760 U		0.960 JN					
ADS-6-0-0.5	'0-0.5	7/18/2001	0.950 U	3.80 U							
ADS-7-0-.5	'0-0.5	7/17/2001	0.900 U	3.60 U							
ADS-8-0-0.5	'0-0.5	7/18/2001	0.210 U	0.820 U							
ADS-8-4-6	'4-6	7/18/2001	0.210 U	0.830 U							
ADS-9-0-0.5	'0-0.5	7/18/2001	0.220 U	0.860 U							
BLIND DUP	'0-0	8/21/2001	0.180 U	0.710 U							
BSL-10-0-1	'0-1	9/21/2001	0.250 U	0.990 U							
BSL-1-0-1	'0-1	9/20/2001	0.200 U	0.790 U							
BSL-11-0-1	'0-1	9/26/2001	0.240 U	0.960 U							
BSL-12-0-1	'0-1	9/26/2001	0.190 U	0.760 U							
BSL-1-4-6	'4-6	9/20/2001	0.240 U	0.980 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001	0.250 U	1.00 U							
BSL-3-0-0.5	'0-0.5	9/20/2001	0.180 U	0.710 U							
BSL-4-0-1	'0-0.5	9/21/2001	0.220 U	0.860 U							
BSL-4-4-6	'4-6	9/21/2001	0.350 U	1.40 U							
BSL-5-0-.5	'0-0.5	9/21/2001	0.200 U	0.820 U							
BSL-6-0-1	'0-1	9/26/2001	0.270 U	1.10 U							
BSL-6-1-2	'1-2	9/26/2001	0.320 U	1.30 U							
BSL-7-0-.5	'0-0.5	9/21/2001	0.240 U	0.980 U							
BSL-8-0-1	'0-1	9/26/2001	0.300 U	1.20 U							
BSL-9-.5-2	'0.5-2	9/21/2001	0.270 U	1.10 U							
BSL-9-0-.5	'0-0.5	9/21/2001	0.210 U	0.840 U							
BT-B1-0-0.5	'0-0.5	9/18/2001	0.200 U	0.810 U							
BT-B2-0.5-2	'0.5-2	9/18/2001	0.200 U	0.790 U							
BT-B2-0-0.5	'0-0.5	9/18/2001	0.220 U	0.860 U							
BT-B3-0-0.5	'0-0.5	9/18/2001	0.960 U	3.90 U							
BT-B4-0.5-2	'0.5-2	8/30/2001	0.190 U	0.770 U							
BT-B4-0-0.5	'0-0.5	8/30/2001	0.840 U	3.40 U							
BT-B5-0-.5	'0-0.5	10/2/2001	0.200 U	0.810 U							
BT-B6-0.5-2	'0.5-2	9/17/2001	0.220 U	0.880 U							
BT-B6-0-0.5	'0-0.5	9/17/2001	0.860 U	3.40 U							
CF-1-0-0.5	'0-0.5	8/31/2001	0.180 U	0.740 U							
CF-1-2-4	'2-4	8/31/2001	0.190 U	0.740 U							
CF-2-0-0.5	'0-0.5	8/28/2001	0.210 U	0.820 U							
CF-3-0.5-2	'0.5-2	8/28/2001	0.330 U	1.30 U							
CF-3-0-0.5	'0-0.5	8/28/2001	0.250 U	0.990 U							
CF-4-0-0.5	'0-0.5	8/28/2001	0.220 U	0.870 U							
CF-5-0-0.5	'0-0.5	8/28/2001	0.170 U	0.700 U							
CF-5-4-6	'4-6	8/28/2001	0.190 U	0.750 U							
CF-6-0-0.5	'0-0.5	8/28/2001	0.190 U	0.770 U							
CF-7-0-0.5	'0-0.5	8/28/2001	0.190 U	0.750 U							
CF-7-4-6	'4-6	8/28/2001	0.180 U	0.700 U							
CF-8-0-0.5	'0-0.5	8/28/2001	0.190 U	0.770 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001	0.180 U	0.720 U							
CF-9-0-0.5	'0-0.5	8/31/2001	0.180 U	0.740 U							
DC-B12-0-0.5	'0-0.5	10/3/2001	0.190 U	0.760 U		21.0 JN			8.70 JN		18.0 JN
DC-B12-2-4	'2-4	10/3/2001	0.180 U	0.730 U					0.400 JN		
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.180 U	0.730 U							
DC-SS11-0-0.5	'0-0.5	9/17/2001	0.920 U	3.70 U							
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.860 U	3.50 U							
DC-SS15-0-0.5	'0-0.5	9/17/2001	1.00 U	4.10 U							
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.210 U	0.850 U							
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.180 U	0.740 U							
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.220 U	0.880 U							
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.190 U	0.750 U							
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.190 U	0.760 U							
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.190 U	0.760 U							
DSP-1-0-0.5	'0-0.5	10/3/2001	0.200 U	0.820 U							
DSP-1-4-6	'4-6	11/19/2001	0.210 U	0.820 U							
DSP-2-0-0.5	'0-0.5	9/4/2001	0.180 U	0.740 U							
DSP-3-0-0.5	'0-0.5	9/4/2001	0.940 U	3.80 U							
DSP-3-2-4	'2-4	9/4/2001	0.210 U	0.830 U							
DSP-4-0-0.5	'0-0.5	9/4/2001	0.210 U	0.850 U							
DSP-4-4-6	'4-6	9/26/2001	0.210 U	0.860 U							
DUP-01-010824	'0-0.5	8/24/2001	0.190 U	0.770 U							
DUP-01-010831	'2-4	8/31/2001	0.190 U	0.750 U							
DUP-01-010904	'0-0.5	9/4/2001	0.920 U	3.70 U							
DUP-01-010905	'8-10	9/5/2001	0.210 U	0.840 U		7.10 JN					
DUP-01-010906	'0-8	9/6/2001	0.760 U	3.10 U							
DUP-01-010913	'0-0.5	9/13/2001	0.960 U	3.80 U							
DUP-01-010917	'0-0.5	9/17/2001	0.190 U	0.770 U							
DUP-01-010926	'1-2	9/26/2001	0.320 U	1.30 U							
DUP-01-010927	'4-6	9/27/2001	0.180 U	0.740 U							
DUP-01-021001	'0-0	10/2/2001	0.190 U	0.750 U							
DUP-01-08 2201	'1.5-2	8/22/2001	0.200 U	0.800 U		0.870 JN					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001	0.190 U	0.770 U							
DUP-01-170402	'0-0	4/17/2002	0.460 U	1.80 U							
DUP-02-010913	'0-0.5	9/13/2001	1.10 U	4.30 U							
DUP-02-010921	'0-1	9/21/2001	0.230 U	0.910 U							
DUP-02-010926	'4-6	9/26/2001	0.220 U	0.900 U		3.40 JN					
DUP060807	'0-0	6/8/2007	0.0240 U	0.0470 U							
DUP-1-010828	'0-0.5	8/28/2001	0.190 U	0.770 U							
DUP-1-010921	'0-0.5	9/21/2001	0.260 U	1.00 U							
DUP110606	'15-17	11/6/2006	0.0290 U	0.0570 U							
DUP112006	'16-18	11/20/2006	0.0450 U	0.0890 U							
DUP112106	'10-12	11/21/2006	0.0470 U	0.0930 U							
DUP-120506	'0-4	12/5/2006	0.0700 U	0.140 U							
DUP-120606	'0-4	12/6/2006	0.0240 U	0.0470 U							
DUPE071801	'0-0.5	7/18/2001	0.180 U	0.740 U							
EC-1	'0-1	8/21/2001	0.190 U	0.760 U							
EC-2	'0-1	8/21/2001	0.190 U	0.750 U							
EC-3	'0-1	8/21/2001	0.180 U	0.710 U							
EC-4	'0-1	8/21/2001	0.180 U	0.740 U							
EC-5	'0-1	8/21/2001	0.180 U	0.740 U							
EC-6	'0-1	8/21/2001	0.210 U	0.820 U							
EC-7	'0-1	8/21/2001	0.200 U	0.800 U							
EC-8	'0-1	8/21/2001	0.180 U	0.740 U							
EC-9	'0-1	8/21/2001	0.220 U	0.870 U							
ESR-1-0-1	'0-0.5	9/4/2001	0.180 U	0.710 U							
ESR-1-4-6	'4-6	9/4/2001	0.210 U	0.830 U							
HB-101A	'17-17	3/5/2007	0.0270 U	0.0520 U		0.300 JN					
HB-102A	'0-0	3/13/2007	0.0410 U	0.0810 U							
HB-102B	'0-0	3/14/2007	0.0280 U	0.0550 U		0.420 JN					
HB-102C	'0-0	3/14/2007	0.0260 U	0.0510 U							
H-B-103A	'17-17	2/20/2007	0.0360 U	0.0720 U							0.720 JN
H-B-104A	'17-17	2/23/2007	0.0280 U	0.0560 U							
H-B-104B	'17-17	2/23/2007	0.0270 U	0.0520 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007	0.0290 U	0.0570 U							
H-B-104D	'17-17	2/27/2007	0.0270 U	0.0530 U							
H-B-104E	'17-17	2/27/2007	0.0270 U	0.0540 U							
H-B-105C	'17-17	2/8/2007	0.0260 U	0.0510 U							
H-B-105D	'17-17	2/8/2007	0.0280 U	0.0560 U							
H-B-105E	'0-0	2/8/2007	0.0280 U	0.0550 U							
HB-1A	'6.75-6.75	4/18/2002	0.300 U	1.20 U							
HB-3A	'5.25-5.25	4/17/2002	0.520 U	2.10 U							
HB-3B	'4.5-4.5	4/17/2002	0.200 U	0.780 U							
HB-3C	'4.5-4.5	4/18/2002	0.190 U	0.770 U							
HB-3D	'4.5-4.5	4/18/2002	0.200 U	0.800 U							
HB-4A	'5.33-5.33	4/19/2002	0.200 U	0.780 U							
HB-5A	'3-3	4/22/2002	0.210 U	0.830 U		0.270 JN					
HB-7A	'5-5	4/19/2002	0.210 U	0.830 U		0.240 JN					
HB-8A	'3-3	4/23/2002	0.200 U	0.800 U							
HB-8B	'4.83-4.83	4/23/2002	0.200 U	0.790 U		0.170 JN					
HB-8C	'5.5-5.5	4/23/2002	0.200 U	0.820 U		8.40 JN					
HB-9A	'4.75-4.75	4/24/2002	0.210 U	0.830 U							
HF-B1-0-0.5	'0-0.5	9/10/2001	0.200 U	0.800 U		0.160 JN					
HF-B1-8-10	'8-10	9/10/2001	0.230 U	0.930 U							
HF-B2-0-0.5	'0-0.5	9/4/2001	0.180 U	0.740 U							
HF-B2-4-6	'4-6	9/4/2001	0.180 U	0.740 U							
HF-B3-0-.5	'0-0.5	10/2/2001	0.190 U	0.740 U		0.520 JN					
HF-B3-8-10	'8-10	10/2/2001	0.190 U	0.760 U							
IB-1-0-2	'0-2	4/8/2002	0.190 U	0.780 U		0.280 JN					
IB-1-4-6	'4-6	4/8/2002	0.190 U	0.780 U							
IB-2-12-14	'12-14	4/8/2002	0.210 U	0.840 U							
IB-2-4-6	'4-6	4/8/2002	0.190 U	0.780 U							
IB-3-4-6	'4-6	4/8/2002	0.210 U	0.850 U							
IB-3-8-10	'8-10	4/8/2002	0.220 U	0.890 U		14.0 JN		4.30 JN			
LB-101-0-1	'0-1	12/6/2006	0.0250 U	0.0490 U							
LB-101-1-3	'1-3	12/6/2006	0.0240 U	0.0460 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006	0.0260 U	0.0500 U							
LB-102-1-3	'3-7	12/6/2006	0.0250 U	0.0500 U							
LB-103-0-1	'0-1	12/6/2006	0.0250 U	0.0480 U							
LB-103-5-7	'5-7	12/6/2006	0.0280 U	0.0560 U							
LHP-101-0-1	'0-1	12/4/2006	0.130 U	0.250 U							
LHP-101-5-8	'4-8	12/4/2006	0.0910 U	0.180 U							
LHP-102-0-1	'0-1	12/5/2006	0.0260 U	0.0510 U							
LHP-102-7-9	'7-9	12/5/2006	0.0320 U	0.0630 U							
LHP-103-0-1	'0-1	12/5/2006	0.130 U	0.250 U							
LHP-103-1-3	'1-3	12/5/2006	0.0280 U	0.0550 U							
LHP-104-0-1	'0-1	12/5/2006	0.0240 U	0.0470 U							
LHP-104-7-9	'4-8	12/5/2006	0.0270 U	0.0530 U							
LHP-105-0-1	'0-1	12/5/2006	0.120 U	0.240 U							
LHP-105-1-3	'1-3	12/5/2006	0.648	0.0480 U							
LHP-106-0-1	'0-1	12/4/2006	0.120 U	0.230 U							
LHP-106-1-3	'1-3	12/4/2006	0.140 U	0.280 U							
LHP-107-0-1	'0-1	12/5/2006	0.0250 U	0.0490 U							
LHP-107-5-7	'4-8	12/5/2006	0.0260 U	0.0520 U							
LHP-108-0-1	'0-1	12/6/2006	0.0260 U	0.0510 U							
LHP-108-3-7	'3-7	12/6/2006	0.0280 U	0.0550 U							
LHP-109-0-1	'0-1	12/6/2006	0.0260 U	0.0520 U							
LHP-109-7-9	'7-9	12/6/2006	0.0320 U	0.0620 U							
LHP-110-0-1	'0-1	12/4/2006	0.260 U	0.520 UJ							
LHP-111-0-1	'0-1	12/4/2006	0.0260 U	0.0510 U							
LHP-112-0-1	'0-1	12/4/2006	0.0260 U	0.0510 U							
LHP-113-0-1	'0-1	12/4/2006	0.0240 U	0.0480 U							
LHP-114-0-1	'0-1	12/4/2006	0.0250 U	0.0490 U							
LHP-115-0-1	'0-1	12/4/2006	0.0240 U	0.0470 U							
LHP-116-0-1	'0-1	12/4/2006	0.0260 U	0.0510 U							
LHP-117-0-1	'0-1	12/4/2006	0.0270 U	0.0520 U							
LHP-118-0-1	'0-1	12/4/2006	0.140 U	0.270 U							
LHP-119-0-1	'0-1	12/4/2006	0.0270 U	0.0520 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006	0.0300 U	0.0580 U							
LHP-121-0-1	'0-1	12/6/2006	0.0260 U	0.0510 U							
LHP-122-0-1	'0-1	12/6/2006	0.0250 U	0.0490 U							
LHP-123-0-1	'0-1	12/4/2006	0.0260 U	0.0520 U							
LHP-124-.5-2	'0.5-2	10/27/2006	0.0270 U	0.0530 U							
LHP-124-10-12	'10-12	10/31/2006	0.0430 U	0.0840 UJ							
LHP-124-2-4	'2-4	10/27/2006	0.0270 U	0.0530 U							
LHP-124-28-30	'28-30	10/31/2006	0.0320 U	0.0630 UJ							
LHP-125-.5-2	'0.5-2	10/27/2006	0.0260 U	0.0510 U							
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0300 U	0.0580 UJ							
LHP-125-12-14	'12-14	11/1/2006	0.0270 U	0.0520 UJ							
LHP-125-4-6	'4-6	10/27/2006	0.0250 U	0.0500 U							
LHP-126-10.5-12	'10.5-12	11/1/2006	0.110 UJ	0.220 UJ							
LHP-126-14-16	'14-16	11/1/2006	0.0270 U	0.0540 UJ							
LHP-126-2-4	'2-4	10/26/2006	0.0250 U	0.0500 U							
LHP-126-8-10	'9-10	10/26/2006	0.0280 U	0.0560 U							
LHP-127-0-1	'0-1	12/6/2006	0.0240 U	0.0480 U							
LHP-127-3-5	'3-5	12/6/2006	0.0240 U	0.0480 U							
LHP-128-0-1	'0-4	12/6/2006	0.0240 U	0.0470 U							
LHP-128-7-8	'17-17	12/6/2006	0.0320 U	0.0620 U							
LP-1-0-0.5	'0-0.5	8/27/2001	0.190 U	0.750 U							
LP-10-0.5-2	'0.5-2	8/27/2001	0.210 U	0.840 U							
LP-10-0-0.5	'0-0.5	8/27/2001	0.190 U	0.760 U							
LP-101-11-13	'11-13	11/2/2006	0.0430 U	0.0840 U							
LP-101-14-16	'14-16	11/2/2006	0.0370 U	0.0730 U							
LP-101-26-28	'26-28	11/2/2006	0.0270 U	0.0530 U							
LP-101-50-52	'50-52	11/2/2006	0.0260 U	0.0520 U							
LP-11-0-0.5	'0-0.5	8/27/2001	0.210 U	0.840 U							
LP-12-0-0.5	'0-0.5	8/27/2001	0.180 U	0.740 U							
LP-12-4-6	'4-6	8/27/2001	0.180 U	0.730 U							
LP-13-0-0.5	'0-0.5	8/24/2001	0.210 U	0.840 U		0.280 JN					
LP-14-0.5-2	'0.5-2	8/24/2001	0.180 U	0.710 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001	0.920 U	3.70 U							
LP-15-0-0.5	'0-0.5	8/24/2001	0.190 U	0.760 U							
LP-16-0.5-2	'0.5-2	8/27/2001	0.910 U	3.60 U							
LP-16-0-0.5	'0-0.5	8/27/2001	0.190 U	0.770 U							
LP-2-0.5-2	'0.5-2	8/28/2001	0.190 U	0.760 U							
LP-2-0-0.5	'0-0.5	8/28/2001	0.190 U	0.750 U		1.00 JN					
LP-3-0-0.5	'0-0.5	8/27/2001	0.180 U	0.710 U							
LP-4 .5-2	'0.5-2	8/21/2001	0.180 U	0.740 U		2.90 JN					
LP-4 0-.5	'0-0.5	8/21/2001	0.200 U	0.800 U							
LP-5-0-0.5	'0-0.5	8/27/2001	0.190 U	0.750 U							
LP-6-0-0.5	'0-0.5	8/27/2001	0.180 U	0.730 U							
LP-6-4-6	'4-6	8/27/2001	0.180 U	0.740 U							
LP-7-0-0.5	'0-0.5	8/24/2001	0.200 U	0.780 U		1.20 JN					
LP-8-0-0.5	'0-0.5	8/24/2001	0.200 U	0.810 U							
LP-8-10-12	'10-12	8/24/2001	0.280 U	1.10 U							
LP-9-0-0.5	'0-0.5	8/24/2001	0.920 U	3.70 U							
MW-11D-12-14	'12-14	12/14/2006	0.0410 U	0.0810 U		0.550 JN					0.320 JN
MW-11D-14-16	'14-16	12/14/2006	0.0270 U	0.0540 U							
MW-11D-16-18	'16-18	12/14/2006	0.0270 U	0.0540 U							
MW-14D-13-15	'13-15	11/14/2006	0.0290 U	0.0580 U							
MW-14D-17-19	'17-19	11/14/2006	0.0270 U	0.0540 U							
MW-16D-13-15	'13-15	11/17/2006	0.0260 U	0.0520 U							
MW-16D-17-19	'17-19	11/20/2006	0.0270 U	0.0530 U							
MW-17D-15-17	'15-17	11/10/2006	0.0290 U	0.0580 U							
MW-17D-17-19	'17-19	11/10/2006	0.0270 U	0.0530 U							
MW-18D-13-15	'13-15	11/13/2006	0.0290 U	0.0570 U							
MW-18D-17-19	'17-19	11/13/2006	0.0260 U	0.0520 U							
MW-20D-12-14	'12-14	11/9/2006	0.0280 U	0.0550 U							
MW-20D-32-34	'32-32.9	11/10/2006	0.0260 U	0.0520 UJ							
MW-20D-36-38	'36-38	11/10/2006	0.0270 U	0.0530 UJ							
MW-21D-13-15	'13-13.7	11/16/2006	0.0290 U	0.0560 U							
MW-21D-15-17	'15-17	11/16/2006	0.0270 U	0.0530 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006	0.0280 U	0.0560 U							
MW-23D-37-39	'37-37.9	11/15/2006	0.0260 U	0.0520 U							
MW-25D-10-12	'10-12	11/21/2006	0.0490 U	0.0960 U							
MW-25D-33-35	'33-35	12/18/2006	0.0290 U	0.0580 U							
MW-26S-8-10	'8-10	10/26/2006	0.0300 U	0.0600 U							
MW-6D-0-2	'0-2	11/8/2006	0.0260 U	0.0510 U							
MW-6D-12-14	'12-14	11/8/2006	0.0610 U	0.120 U							
MW-6D-16-18	'16-18	11/20/2006	0.0420 U	0.0840 U							
MW-6D-30-32	'30-32	11/21/2006	0.0270 U	0.0530 U							
PCA-1-0-.5	'0-2	7/17/2001	0.900 U	3.60 U							
PCA-1-4-6	'4-6	7/17/2001	0.200 U	0.800 U							
PCA-2-0-.5	'0-0.5	7/17/2001	0.180 U	0.730 U							
PCA-3-0-0.5	'0-0.5	9/13/2001	0.390 U	1.60 U							
PCA-3-4-6	'4-6	9/13/2001	0.210 U	0.850 U							
PCA-4-0-0.5	'0-0.5	9/13/2001	0.950 U	3.80 U							
PCA-4-4-6	'4-6	9/26/2001	0.210 U	0.830 U							
PCA-5-0.5-2	'0.5-2	9/7/2001	0.190 U	0.780 U							
PCA-5-0-0.5	'0-0.5	9/7/2001	0.210 U	0.850 U							
PCA-6-0-0.5	'0-0.5	9/7/2001	0.180 U	0.710 U							
RR-1 0-0.5	'0-0.5	8/22/2001	0.180 U	0.740 U	0.530 JN						
RR-1 14-16	'14-16	8/22/2001	0.200 U	0.820 U		11.0 JN				2.30 JN	
RR-10 0-.5	'0-0.5	10/12/2001	0.180 U	0.740 U							
RR-11 0-.5	'0-0.5	10/12/2001	0.200 U	0.800 U							
RR-12 0-.5	'0-0.5	10/12/2001	0.200 U	0.780 U							
RR-2-0-0.5	'0-0.5	9/13/2001	1.00 U	4.20 U							
RR-2-8-10	'8-10	9/13/2001	0.250 U	0.990 U							
RR-3-0-0.5	'0-0.5	9/13/2001	0.180 U	0.720 U							
RR-4-0-0.5	'0-0.5	9/10/2001	0.200 U	0.800 U							
RR-4-6-8	'6-8	9/13/2001	0.190 U	0.770 U							
RR-5-0-0.5	'0-0.5	9/10/2001	0.170 U	0.690 U							
RR-6-0-0.5	'0-0.5	9/10/2001	0.180 U	0.720 U							
RR-6-8-10	'8-10	9/10/2001	0.190 U	0.760 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001	0.190 U	0.760 U							
RR-8-0-0.5	'0-0.5	9/26/2001	0.220 U	0.860 U		0.190 JN					
RR-8-6-8	'6-8	9/26/2001	0.340 U	1.40 U							
RR-9 0-.5	'0-0.5	10/12/2001	0.180 U	0.730 U							
SC-1	'0-1	8/21/2001	0.220 U	0.900 U							
SC-2	'0-1	8/22/2001	0.170 U	0.700 U			0.410 JN				
SC-3	'0-1	8/22/2001	0.200 U	0.780 U			0.350 JN				
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.190 U	0.770 U							
SILO-B1-6-8	'6-8	9/6/2001	0.740 U	3.00 U							
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.900 U	3.60 U							
SILO-B3-0-0.5	'0-0.5	9/6/2001	1.00 U	4.10 U							
SILO-B3-6-8	'6-8	9/6/2001	0.180 U	0.740 U							
SILO-B4-0-0.5	'0-0.5	9/6/2001	1.00 U	4.20 U							
SPR-1-0-0.5	'0-0.5	9/5/2001	0.960 U	3.80 U							
SPR-1-8-10	'8-10	9/5/2001	0.260 U	1.00 U							
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.190 U	0.750 U							
SPR-2A-8-10	'8-10	7/19/2001	0.220 U	0.880 U							
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.180 U	0.720 U							
SPR-2B-10-12	'10-12	7/19/2001	0.250 U	1.00 U							
SPR-3 0-.5	'0-0.5	8/21/2001	0.180 U	0.720 U							
SPR-3 4-6	'4-6	8/21/2001	0.210 U	0.860 U							
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.200 U	0.810 U							
SPR-4A-8-10	'8-10	7/19/2001	0.280 U	1.10 U							
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.200 U	0.800 U							
SPR-4B-4-6	'4-6	8/23/2001	0.200 U	0.800 U							
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.920 U	3.70 U							
SPR-4C-4-6	'4-6	8/23/2001	0.220 U	0.860 U		0.320 JN					
SPR-5-0-0.5	'0-0.5	9/5/2001	5.20 U	21.0 U							
SPR-5-2-4	'2-4	9/5/2001	0.220 U	0.860 U							
SPR-6-0.5-2	'0.5-2	9/13/2001	0.190 U	0.750 U							
SPR-6-0-0.5	'0-0.5	9/13/2001	0.170 U	0.680 U							
SR-1-0-.5	'0-0.5	7/17/2001	0.180 U	0.710 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001	0.170 U	0.680 U							
ST-1-0-0.5	'0-0.5	9/5/2001	1.00 U	4.00 U							
ST-2-0-0.5	'0-0.5	9/5/2001	1.00 U	4.00 U							
ST-3-0-0.5	'0-0.5	9/4/2001	0.200 U	0.790 U							
ST-3-4-6	'4-6	9/4/2001	0.260 U	1.00 U							
TES-1-0-1	'0-1	12/5/2006	0.130 U	0.260 U							
TES-2-0-1	'0-1	12/4/2006	0.280 U	0.560 U							
TES-3-0-1	'0-1	12/4/2006	0.140 U	0.280 U							
TES-4-0-1	'0-1	12/5/2006	0.0250 U	0.0500 U							
TLN-1 .5-2	'0.5-2	8/20/2001	0.210 U	0.840 U							
TLN-1 0-.5	'0-0.5	8/20/2001	0.210 U	0.830 U							
TLN-2-0-0.5	'0-0.5	7/19/2001	0.180 U	0.740 U							
TLN-3-0-.5	'0-0.5	7/17/2001	0.860 U	3.40 U							
TLN-3-2-4	'2-4	7/17/2001	0.190 U	0.780 U							
TLN-4 0-.5	'0-0.5	8/20/2001	0.170 U	0.690 U							
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.180 U	0.730 U							
TLN-5 .5-2	'0.5-2	8/20/2001	0.180 U	0.720 U							
TLN-5 0-.5	'0-0.5	8/20/2001	0.180 U	0.720 U							
TLN-5-4-6	'4-6	8/30/2001	0.180 U	0.730 U							
TLN-6 0-.5	'0-0.5	8/20/2001	0.180 U	0.720 U							
TLS-10 0-.5	'0-0.5	8/21/2001	0.190 U	0.780 U							
TLS-10 8-10	'8-10	8/21/2001	0.240 U	0.970 U							
TLS-1-0-0.5	'0-0.5	9/5/2001	0.970 U	3.90 U							
TLS-11-0-0.5	'0-0.5	9/7/2001	0.190 U	0.750 U							
TLS-2-0-0.5	'0-0.5	9/7/2001	0.940 U	3.70 U							
TLS-2-6-8	'6-8	9/7/2001	0.290 U	1.20 U							
TLS-3 0-.5	'0-0.5	8/21/2001	0.180 U	0.740 U							
TLS-4-0-0.5	'0-0.5	9/7/2001	0.180 U	0.730 U							
TLS-4-8-10	'8-10	9/7/2001	0.280 U	1.10 U							
TLS-5 0-0.5	'0-0.5	8/21/2001	0.180 U	0.710 U							
TLS-5-8-10	'8-10	9/26/2001	0.260 U	1.00 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitroaniline	4-Nitrophenol	5,12-Naphthacenedione	7h-Benz_de_anthracen-7-One	83-47-6	9,10-Anthracenedione, 1,4-Diamino-	9,10-Anthracenedione, 1,4-Dihydroxy-	9,10-Anthracenedione, 1,5-Dihydroxy-	9,10-Anthracenedione, 1-Amino-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001	0.220 U	0.900 U							
TLS-6-3-5	'3-5	9/26/2001	22.0 U	89.0 U							
TLS-7 0-.5	'0-0.5	8/21/2001	0.250 U	0.990 U							
TLS-8-0-0.5	'0-0.5	9/7/2001	0.190 U	0.760 U							
TLS-8-6-8	'6-8	9/7/2001	0.220 U	0.870 U							
TLS-9 0-.5	'0-0.5	8/21/2001	0.910 U	3.60 U							
TP-105	'0-0	6/8/2007	0.0230 U	0.0450 U							
TP-105A	'0-0	6/8/2007	0.0230 U	0.0450 U							
TP-106-A	'0-0	6/8/2007	0.0240 U	0.0470 U							
TP-106-B	'0-0	6/8/2007	0.0230 U	0.0450 U							
WWT-1-0-0.5	'0-0.5	7/19/2001	0.980 U	3.90 U							
WWT-101-15-17	'15-17	11/6/2006	0.0290 U	0.0570 U							
WWT-101-21-23	'21-23	11/6/2006	0.0270 U	0.0540 U							
WWT-1-12-14	'12-14	8/23/2001	13.0 U	52.0 U		330. JN					
WWT-2-0-0.5	'0-0.5	8/23/2001	0.180 U	0.720 U							
WWT-2-12-14	'12-14	8/23/2001	0.630 U	2.50 U							
WWT-3-0-0.5	'0-0.5	8/23/2001	0.900 U	3.60 U							
WWT-3-12-14	'12-14	8/23/2001	0.390 U	1.60 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS							37000	300000	4		30000
12K-B1-0.5-2	'0.5-2	9/6/2001					0.0850 U	0.0850 U			0.0850 U
12K-B1-0-0.5	'0-0.5	9/6/2001					0.0790 U	0.0790 U			0.0372 J
12K-B2-0.5-2	'0.5-2	9/6/2001					0.0790 U	0.0790 U			0.0790 U
12K-B2-0-0.5	'0-0.5	9/6/2001					0.0810 U	0.0810 U			0.0810 U
150K-1-0.5-2	'0.5-2	9/10/2001					0.0568 J	0.0770 U			0.2760
150K-1-0-0.5	'0-0.5	9/10/2001					0.5340	0.4000 U			0.4870
230-B1-0.5	'0-0.5	10/2/2001					0.0716 J	0.0790 U			0.2880
230-B10-0-0.5	'0-0.5	8/30/2001					0.1610	0.0990 U			0.0990 U
230-B10-1.5-2	'1.5-2	8/30/2001					0.1350	0.0860 U			0.4190
230-B11-0-0.5	'0-0.5	8/30/2001					0.0720 U	0.0720 U			0.0720 U
230-B11-1.5-2	'1.5-2	8/30/2001					0.0588 J	0.0720 U			0.1370
230-B1-4-6	'4-6	10/2/2001					0.3900 U	0.3900 U			0.3900 U
230-B2-0-0.5	'0-0.5	8/30/2001	0.7300 JN				0.0800 U	0.0800 U			0.0800 U
230-B2-1.5-2	'1.5-2	8/30/2001					0.0742	0.0720 U			0.0444 J
230-B3-0-0.5	'0-0.5	8/30/2001					0.0760 U	0.0760 U			0.0760 U
230-B3-1.5-2	'1.5-2	8/30/2001					0.325	0.0780 U			0.335
230-B4-0-0.5	'0-0.5	8/30/2001					0.0395 J	0.0800 U			0.0484 J
230-B4-1.5-2	'1.5-2	8/30/2001					0.133	0.0760 U			0.178
230-B5-0-0.5	'0-0.5	9/13/2001					0.0276 J	0.0800 U			0.0542 J
230-B5-1.5-2	'1.5-2	9/13/2001					0.259	0.0750 U			0.132
230-B6 0-0.5	'0-0.5	8/22/2001					0.0760 U	0.0760 U			0.0308 J
230-B6 1.5-2	'1.5-2	8/22/2001					0.0760 U	0.0760 U			0.0760 U
230-B7 0-0.5	'0-0.5	8/22/2001	1.30 JN				0.0810 U	0.0810 U			0.0254 J
230-B7 1.5-2	'1.5-2	8/22/2001					0.0820 U	0.0820 U			0.0189 J
230-B8 1.5-2	'1.5-2	8/22/2001					0.786	0.0830 U			0.136
230-B9 0-0.5	'0-0.5	8/22/2001					0.0710 U	0.0710 U			0.0710 U
230-B9 0-0.5	'0-0.5	8/22/2001					0.0770 U	0.0256 J			0.0402 J
230-B9 1.5-2	'1.5-2	8/22/2001					0.0750 U	0.0750 U			0.0750 U
231-B1-0-0.5	'0-0.5	10/5/2001					0.0750 U	0.0750 U			0.0750 U
231-B10-0-0.5	'0-0.5	9/17/2001					0.0830 U	0.0830 U			0.0830 U
231-B11-0-0.5	'0-0.5	9/19/2001					0.0940 U	0.0940 U			0.0940 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001					0.0850 U	0.0850 U			0.0180 J
231-B12-0-0.5	'0-0.5	9/17/2001					0.0750 U	0.0750 U			0.0750 U
231-B13-0-0.5	'0-0.5	9/19/2001					0.390 U	0.390 U			0.390 U
231-B13-8-10	'9-10	9/27/2001					0.0323 J	0.0770 U			0.0316 J
231-B14-0-0.5	'0-0.5	9/19/2001					0.0820 U	0.0820 U			0.0820 U
231-B2-0.5-2	'0.5-2	8/22/2001					0.0201 J	0.0740 U			0.0725 J
231-B2-0-0.5	'0-0.5	8/22/2001					0.0740 U	0.0740 U			0.0740 U
231-B3-0-0.5	'0-0.5	8/22/2001					0.0770 U	0.0770 U			0.0770 U
231-B4-0-0.5	'0-0.5	8/30/2001					0.0770 U	0.0770 U			0.0770 U
231-B4-6-8	'6-8	9/27/2001					0.0677 J	0.0800 U			0.104
231-B5-0.5-2	'0.5-2	9/19/2001					0.103	0.0203 J			0.197
231-B6-0-0.5	'0-0.5	9/27/2001					0.0984	0.0910 U			0.0293 J
231-B6-4-6	'4-6	9/27/2001					0.0750 U	0.0750 U			0.0220 J
231-B7-0-0.5	'0-0.5	9/13/2001					0.410 U	0.410 U			0.0766 J
231-B8-0-0.5	'0-0.5	9/27/2001					0.160 UJ	0.160 UJ			0.245 J
231-B8-8-10	'8-10	9/27/2001	88.0 JN				6.50 U	6.50 U			9.22
231-B9-0.5-2	'0.5-2	9/27/2001	0.480 JN				0.0940 U	0.0940 U			0.0972
231-B9-0-0.5	'0-0.5	9/27/2001					0.470 U	0.470 U			0.470 U
240-1-0-0.5	'0-0.5	9/26/2001					0.0479 J	0.0810 U			0.178
240-1-8-10	'8-10	10/1/2001					0.0810 U	0.0810 U			0.0810 U
5K-B1-0-0.5	'0-0.5	10/1/2001					0.410 U	0.410 U			0.410 U
5K-B2-0-0.5	'0-0.5	8/31/2001					0.0710 U	0.0710 U			0.0710 U
5K-B2-8-10	'8-10	8/31/2001					0.102	0.0820 U			0.185
5K-B3-0-0.5	'0-0.5	9/26/2001					0.0800 U	0.0800 U			0.0180 J
5K-B4-0-0.5	'0-0.5	10/1/2001					0.460 U	0.460 U			0.264 J
5K-B4-4-6	'4-6	10/1/2001	18.0 JN				2.79	0.550 U			50.2
5K-B5-0-0.5	'0-0.5	8/31/2001					2.16	0.0780 U			1.73
5K-B5-4-6	'4-6	9/26/2001					0.203	0.0870 U			0.441
AB-1-0-0.5	'0-0.5	9/4/2001					0.0780 U	0.0780 U			0.0641 J
AB-2-0.5-2	'0.5-2	9/4/2001	0.770 JN				0.0870 U	0.0870 U			0.0383 J
AB-2-0-0.5	'0-0.5	9/4/2001					0.0810 U	0.0810 U			0.0233 J
ADN-1-0-0.5	'0-0.5	9/5/2001					0.633	0.0392 J			0.321

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001	2.80 JN				2.60	0.0960 U			1.48
ADN-2-0-0.5	'0-0.5	9/5/2001					0.0820 U	0.0820 U			0.0820 U
ADN-2-10-11	'10-11	9/27/2001					0.0800 U	0.0800 U			0.0800 U
ADS-1-0-.5	'0-0.5	7/17/2001					0.370 U	0.103 J			0.275 J
ADS-10-0-0.5	'0-2	7/18/2001	0.210 JN				0.0770 U	0.0843			0.180
ADS-101-0-1	'0-1	12/5/2006					0.0200 U	0.0160 U	0.0240 U		0.0150 U
ADS-101-1-3	'1-3	12/5/2006					0.0190 U	0.0150 U	0.0240 U		0.0150 U
ADS-102-0-1.5	'0-2	12/5/2006					0.0591 J	0.0230 J	0.0240 U		0.0564 J
ADS-102-7-8	'4-8	12/5/2006					0.0210 U	0.0160 U	0.0250 U		0.0160 U
ADS-10-4-6	'4-6	7/18/2001					0.0950 U	0.0950 U			0.0950 U
ADS-11-0-0.5	'0-2	7/18/2001	0.430 JN	0.260 JN			0.0760 U	0.128			0.226
ADS-12-0.5-2	'0.5-2	7/18/2001					0.0870 U	0.0870 U			0.0870 U
ADS-12-0-0.5	'0-0.5	7/18/2001				0.290 JN	0.0850 U	0.0850 U			0.0850 U
ADS-2-0-0.5	'0-0.5	7/18/2001					0.0800 U	0.0800 U			0.0800 U
ADS-2-4-6	'4-6	7/18/2001					0.0810 U	0.0810 U			0.0810 U
ADS-3-0-0.5	'0-0.5	7/18/2001	0.610 JN				0.0780 U	0.0780 U			0.0206 J
ADS-4-0-0.5	'0-2	7/18/2001	0.160 JN				0.0770 U	0.0770 U			0.0929
ADS-4-12-14	'12-14	7/18/2001	5.60 JN				0.822	0.0850 U			5.76
ADS-5-0-0.5	'0-0.5	7/18/2001					0.360 U	0.360 U			0.360 U
ADS-5-4-6	'4-6	9/27/2001	0.220 JN				0.0740 U	0.0740 U			0.0740 U
ADS-6-0.5-2	'0.5-2	7/18/2001					0.0968	0.0760 U			0.115
ADS-6-0-0.5	'0-0.5	7/18/2001					0.380 U	0.380 U			0.0534 J
ADS-7-0-.5	'0-0.5	7/17/2001					0.360 U	0.360 U			0.246 J
ADS-8-0-0.5	'0-0.5	7/18/2001					0.0820 U	0.0820 U			0.0226 J
ADS-8-4-6	'4-6	7/18/2001					0.0830 U	0.0830 U			0.0830 U
ADS-9-0-0.5	'0-0.5	7/18/2001					0.0860 U	0.0860 U			0.0495 J
BLIND DUP	'0-0	8/21/2001					0.0184 J	0.0710 U			0.0528 J
BSL-10-0-1	'0-1	9/21/2001					0.0990 U	0.0990 U			0.0990 U
BSL-1-0-1	'0-1	9/20/2001					0.0790 U	0.0282 J			0.0260 J
BSL-11-0-1	'0-1	9/26/2001					0.0960 U	0.0960 U			0.0960 U
BSL-12-0-1	'0-1	9/26/2001					0.0760 U	0.0760 U			0.0760 U
BSL-1-4-6	'4-6	9/20/2001					0.0980 U	0.0980 U			0.0980 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001					0.100 U	0.100 U		0.850 JN	0.0324 J
BSL-3-0-0.5	'0-0.5	9/20/2001					0.0710 U	0.0710 U			0.0710 U
BSL-4-0-1	'0-0.5	9/21/2001					0.0860 U	0.0860 U			0.0860 U
BSL-4-4-6	'4-6	9/21/2001					0.140 U	0.140 U			0.140 U
BSL-5-0-.5	'0-0.5	9/21/2001					0.0820 U	0.0820 U			0.0820 U
BSL-6-0-1	'0-1	9/26/2001					0.110 U	0.110 U			0.0383 J
BSL-6-1-2	'1-2	9/26/2001					0.130 U	0.130 U			0.130 U
BSL-7-0-.5	'0-0.5	9/21/2001					0.0980 U	0.0980 U			0.0980 U
BSL-8-0-1	'0-1	9/26/2001					0.120 U	0.120 U			0.120 U
BSL-9-.5-2	'0.5-2	9/21/2001					0.110 U	0.110 U			0.110 U
BSL-9-0-.5	'0-0.5	9/21/2001					0.0840 U	0.0840 U			0.0840 U
BT-B1-0-0.5	'0-0.5	9/18/2001					0.0810 U	0.0810 U			0.0250 J
BT-B2-0.5-2	'0.5-2	9/18/2001					0.0790 U	0.0790 U			0.0149 J
BT-B2-0-0.5	'0-0.5	9/18/2001					0.0860 U	0.0860 U			0.0860 U
BT-B3-0-0.5	'0-0.5	9/18/2001					0.390 U	0.390 U			0.390 U
BT-B4-0.5-2	'0.5-2	8/30/2001					0.0587 J	0.0770 U			0.0445 J
BT-B4-0-0.5	'0-0.5	8/30/2001					0.340 U	0.340 U			0.340 U
BT-B5-0-.5	'0-0.5	10/2/2001					0.0333 J	0.0810 U			0.0325 J
BT-B6-0.5-2	'0.5-2	9/17/2001					0.0880 U	0.0880 U			0.0356 J
BT-B6-0-0.5	'0-0.5	9/17/2001					0.340 U	0.340 U			0.340 U
CF-1-0-0.5	'0-0.5	8/31/2001					0.0740 U	0.0740 U			0.0163 J
CF-1-2-4	'2-4	8/31/2001					0.264	0.0740 U			0.236
CF-2-0-0.5	'0-0.5	8/28/2001					0.0820 U	0.0820 U			0.0276 J
CF-3-0.5-2	'0.5-2	8/28/2001					0.130 U	0.130 U			0.130 U
CF-3-0-0.5	'0-0.5	8/28/2001					0.0990 U	0.0990 U			0.0616 J
CF-4-0-0.5	'0-0.5	8/28/2001					0.0870 U	0.0870 U			0.0490 J
CF-5-0-0.5	'0-0.5	8/28/2001					0.0700 U	0.0700 U			0.0700 U
CF-5-4-6	'4-6	8/28/2001					0.0750 U	0.0750 U			0.0108 J
CF-6-0-0.5	'0-0.5	8/28/2001					0.0770 U	0.0770 U			0.0166 J
CF-7-0-0.5	'0-0.5	8/28/2001					0.0750 U	0.0750 U			0.0236 J
CF-7-4-6	'4-6	8/28/2001					0.0423 J	0.0700 U			0.103
CF-8-0-0.5	'0-0.5	8/28/2001					0.0664 J	0.0770 U			0.0920

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001					0.0720 U	0.0720 U			0.0720 U
CF-9-0-0.5	'0-0.5	8/31/2001					0.0740 U	0.0740 U			0.0740 U
DC-B12-0-0.5	'0-0.5	10/3/2001	8.00 JN				0.0380 J	0.0760 U			2.62
DC-B12-2-4	'2-4	10/3/2001					0.0730 U	0.0730 U			0.0432 J
DC-SS1-0-0.5	'0-0.5	9/18/2001					0.0730 U	0.187			0.0738
DC-SS11-0-0.5	'0-0.5	9/17/2001					22.4	0.552			7.51
DC-SS13-0-0.5	'0-0.5	9/17/2001					0.350 U	0.350 U			0.350 U
DC-SS15-0-0.5	'0-0.5	9/17/2001					1.75	0.147 J			1.92
DC-SS17-0-0.5	'0-0.5	9/17/2001					3.32	0.173			3.07
DC-SS2-0-0.5	'0-0.5	9/17/2001					0.0740 U	0.0740 U			0.0740 U
DC-SS3-0-0.5	'0-0.5	9/17/2001					0.0880 U	0.0880 U			0.0880 U
DC-SS6-0-0.5	'0-0.5	9/17/2001					0.0750 U	0.0750 U			0.0197 J
DC-SS7-0-0.5	'0-0.5	9/17/2001					0.0760 U	0.0760 U			0.0104 J
DC-SS9-0-0.5	'0-0.5	9/17/2001					0.198	0.0760 U			0.166
DSP-1-0-0.5	'0-0.5	10/3/2001					0.0820 U	0.0820 U			0.0820 U
DSP-1-4-6	'4-6	11/19/2001					0.0820 U	0.0820 U			0.0820 U
DSP-2-0-0.5	'0-0.5	9/4/2001					0.0740 U	0.0740 U			0.0740 U
DSP-3-0-0.5	'0-0.5	9/4/2001					0.380 U	0.380 U			0.380 U
DSP-3-2-4	'2-4	9/4/2001					0.0830 U	0.0830 U			0.0830 U
DSP-4-0-0.5	'0-0.5	9/4/2001					0.0850 U	0.0850 U			0.0850 U
DSP-4-4-6	'4-6	9/26/2001					0.0860 U	0.0860 U			0.0860 U
DUP-01-010824	'0-0.5	8/24/2001					0.291	0.0770 U			0.292
DUP-01-010831	'2-4	8/31/2001					0.541	0.0750 U			0.189
DUP-01-010904	'0-0.5	9/4/2001					0.370 U	0.370 U			0.370 U
DUP-01-010905	'8-10	9/5/2001	14.0 JN				7.85	0.0840 U			2.59
DUP-01-010906	'0-8	9/6/2001					166.	0.310 U			52.4
DUP-01-010913	'0-0.5	9/13/2001					0.380 U	0.380 U			0.380 U
DUP-01-010917	'0-0.5	9/17/2001					0.230	0.0770 U			0.197
DUP-01-010926	'1-2	9/26/2001					0.130 U	0.130 U			0.0284 J
DUP-01-010927	'4-6	9/27/2001					0.0740 U	0.0740 U			0.0740 U
DUP-01-021001	'0-0	10/2/2001	0.180 JN				0.0339 J	0.0750 U			0.0661 J
DUP-01-08 2201	'1.5-2	8/22/2001					0.0800 U	0.0800 U			0.0800 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001					0.0770 U	0.0300 J			0.108
DUP-01-170402	'0-0	4/17/2002					1.35	0.180 U			0.622
DUP-02-010913	'0-0.5	9/13/2001					0.430 U	0.430 U			0.0705 J
DUP-02-010921	'0-1	9/21/2001					0.0910 U	0.0910 U			0.0910 U
DUP-02-010926	'4-6	9/26/2001					0.0820 J	0.0900 U			0.269
DUP060807	'0-0	6/8/2007					0.0180 U	0.0140 U	0.0220 U		0.0130 U
DUP-1-010828	'0-0.5	8/28/2001					0.0770 U	0.0770 U			0.0134 J
DUP-1-010921	'0-0.5	9/21/2001					0.100 U	0.100 U			0.100 U
DUP110606	'15-17	11/6/2006					0.0210 U	0.0170 U	0.0270 U		0.0160 U
DUP112006	'16-18	11/20/2006					0.0330 U	0.0270 U	0.0410 U		0.0250 U
DUP112106	'10-12	11/21/2006					0.0350 U	0.0280 U	0.0430 U		0.0270 U
DUP-120506	'0-4	12/5/2006					0.0520 U	0.0410 U	0.0640 U		0.0390 U
DUP-120606	'0-4	12/6/2006					0.0180 U	0.0140 U	0.0220 U		0.0130 U
DUPE071801	'0-0.5	7/18/2001			0.250 JN		0.0740 U	0.0740 U			0.0740 U
EC-1	'0-1	8/21/2001					0.0760 U	0.0760 U			0.0760 U
EC-2	'0-1	8/21/2001					0.0233 J	0.0275 J			0.0742 J
EC-3	'0-1	8/21/2001					0.0710 U	0.0710 U			0.0253 J
EC-4	'0-1	8/21/2001					0.0740 U	0.0740 U			0.0193 J
EC-5	'0-1	8/21/2001					0.0740 U	0.0740 U			0.0740 U
EC-6	'0-1	8/21/2001					0.0820 U	0.0820 U			0.0820 U
EC-7	'0-1	8/21/2001					0.0800 U	0.0800 U			0.0301 J
EC-8	'0-1	8/21/2001					0.0740 U	0.0740 U			0.0339 J
EC-9	'0-1	8/21/2001					0.0504 J	0.0477 J			0.118
ESR-1-0-1	'0-0.5	9/4/2001					0.0710 U	0.0710 U			0.0710 U
ESR-1-4-6	'4-6	9/4/2001					0.0830 U	0.0830 U			0.0830 U
HB-101A	'17-17	3/5/2007	0.190 JN				0.0916	0.0160 U	0.0240 U		0.0150 U
HB-102A	'0-0	3/13/2007					0.0310 U	0.0240 U	0.0380 U		0.0230 U
HB-102B	'0-0	3/14/2007	0.170 JN				0.103	0.0160 U	0.0260 U		0.0897
HB-102C	'0-0	3/14/2007					0.0190 U	0.0150 U	0.0240 U		0.0150 U
H-B-103A	'17-17	2/20/2007					0.328	0.0210 U	0.0330 U		0.318
H-B-104A	'17-17	2/23/2007					0.0210 U	0.0170 U	0.0260 U		0.0160 U
H-B-104B	'17-17	2/23/2007					0.0200 U	0.0160 U	0.0240 U		0.0150 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007					13.0	0.175	0.0270 U		10.3
H-B-104D	'17-17	2/27/2007					0.0200 U	0.0160 U	0.0250 U		0.0280 J
H-B-104E	'17-17	2/27/2007					0.673	0.0160 U	0.0250 U		0.674
H-B-105C	'17-17	2/8/2007					0.0518 J	0.0150 U	0.0240 U		0.0865
H-B-105D	'17-17	2/8/2007					0.0210 U	0.0170 U	0.0260 U		0.0160 U
H-B-105E	'0-0	2/8/2007					0.0210 U	0.0160 U	0.0260 U		0.0160 U
HB-1A	'6.75-6.75	4/18/2002					0.700	0.120 U			0.152
HB-3A	'5.25-5.25	4/17/2002					2.05	0.210 U			0.966
HB-3B	'4.5-4.5	4/17/2002					0.0780 U	0.0780 U			0.0780 U
HB-3C	'4.5-4.5	4/18/2002					0.0770 U	0.0770 U			0.0770 U
HB-3D	'4.5-4.5	4/18/2002					0.0800 U	0.0800 U			0.0800 U
HB-4A	'5.33-5.33	4/19/2002					0.0810	0.0780 U			0.0618 J
HB-5A	'3-3	4/22/2002					1.02	0.0830 U			1.13
HB-7A	'5-5	4/19/2002					0.307	0.0830 U			0.214
HB-8A	'3-3	4/23/2002					0.0400 J	0.0800 U			0.0549 J
HB-8B	'4.83-4.83	4/23/2002					0.119	0.0790 U			0.0496 J
HB-8C	'5.5-5.5	4/23/2002	9.80 JN				0.272	0.0820 U			0.221
HB-9A	'4.75-4.75	4/24/2002					4.61	0.105			9.65
HF-B1-0-0.5	'0-0.5	9/10/2001	0.180 JN				0.0370 J	0.0447 J			0.0676 J
HF-B1-8-10	'8-10	9/10/2001					0.344	0.0930 U			0.226
HF-B2-0-0.5	'0-0.5	9/4/2001					0.0500 J	0.0740 U			0.0649 J
HF-B2-4-6	'4-6	9/4/2001					0.0636 J	0.0402 J			0.217
HF-B3-0-.5	'0-0.5	10/2/2001	1.30 JN				0.305	0.0854			0.721
HF-B3-8-10	'8-10	10/2/2001	0.280 JN				0.0354 J	0.0760 U			0.0270 J
IB-1-0-2	'0-2	4/8/2002					0.292	0.0780 U			0.206
IB-1-4-6	'4-6	4/8/2002					0.134	0.0780 U			0.0800
IB-2-12-14	'12-14	4/8/2002					27.5	0.425			7.79
IB-2-4-6	'4-6	4/8/2002					5.36	0.0780 U			0.781
IB-3-4-6	'4-6	4/8/2002					1.36	0.0850 U			0.202
IB-3-8-10	'8-10	4/8/2002					2.58	0.0890 U			1.20
LB-101-0-1	'0-1	12/6/2006					0.0180 U	0.0140 U	0.0230 U		0.0140 U
LB-101-1-3	'1-3	12/6/2006					0.0170 U	0.0140 U	0.0220 U		0.108

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006					0.0190 U	0.0150 U	0.0230 U		0.0140 U
LB-102-1-3	'3-7	12/6/2006					0.0190 U	0.0150 U	0.0230 U		0.0140 U
LB-103-0-1	'0-1	12/6/2006					0.0180 U	0.0140 U	0.0220 U		0.0160 J
LB-103-5-7	'5-7	12/6/2006					0.0210 U	0.0170 U	0.0260 U		0.0160 U
LHP-101-0-1	'0-1	12/4/2006					0.0940 U	0.0740 U	0.120 U		0.0710 U
LHP-101-5-8	'4-8	12/4/2006					0.0670 U	0.0530 U	0.0830 U		0.0566 J
LHP-102-0-1	'0-1	12/5/2006					0.0190 U	0.0150 U	0.0240 U		0.0162 J
LHP-102-7-9	'7-9	12/5/2006					0.0382 J	0.193	0.0290 U		0.192
LHP-103-0-1	'0-1	12/5/2006					0.0960 U	0.0760 U	0.120 U		0.0833 J
LHP-103-1-3	'1-3	12/5/2006					0.0210 U	0.0160 U	0.0260 U		0.0160 U
LHP-104-0-1	'0-1	12/5/2006					0.0180 U	0.0140 U	0.0220 U		0.0130 U
LHP-104-7-9	'4-8	12/5/2006					0.0200 U	0.0160 U	0.0250 U		0.0150 U
LHP-105-0-1	'0-1	12/5/2006					0.0890 U	0.0700 U	0.110 U		0.0670 U
LHP-105-1-3	'1-3	12/5/2006					0.0180 U	0.0140 U	0.0220 U		0.0140 U
LHP-106-0-1	'0-1	12/4/2006					0.0880 U	0.0700 U	0.110 U		0.0660 U
LHP-106-1-3	'1-3	12/4/2006					0.110 U	0.0840 U	0.130 U		0.0810 U
LHP-107-0-1	'0-1	12/5/2006					0.0252 J	0.0150 U	0.0230 U		0.0309 J
LHP-107-5-7	'4-8	12/5/2006					0.0190 U	0.0150 U	0.0240 U		0.0150 U
LHP-108-0-1	'0-1	12/6/2006					0.0190 U	0.0607 J	0.0240 U		0.103
LHP-108-3-7	'3-7	12/6/2006					0.0210 U	0.0160 U	0.0250 U		0.0160 U
LHP-109-0-1	'0-1	12/6/2006					0.0190 U	0.0150 U	0.0240 U		0.0159 J
LHP-109-7-9	'7-9	12/6/2006					0.163	0.0337 J	0.0290 U		0.0825 J
LHP-110-0-1	'0-1	12/4/2006					0.190 U	0.150 U	0.240 U		0.291 J
LHP-111-0-1	'0-1	12/4/2006					0.0190 U	0.0150 U	0.0230 U		0.0312 J
LHP-112-0-1	'0-1	12/4/2006					0.0997	0.0186 J	0.0240 U		0.373
LHP-113-0-1	'0-1	12/4/2006					0.0180 U	0.0140 U	0.0220 U		0.0190 J
LHP-114-0-1	'0-1	12/4/2006					0.0190 U	0.0150 U	0.0230 U		0.0265 J
LHP-115-0-1	'0-1	12/4/2006					0.0180 U	0.0140 U	0.0220 U		0.0130 U
LHP-116-0-1	'0-1	12/4/2006					0.0190 U	0.0150 U	0.0240 U		0.0140 U
LHP-117-0-1	'0-1	12/4/2006					0.0200 U	0.0160 U	0.0240 U		0.0165 J
LHP-118-0-1	'0-1	12/4/2006					0.100 U	0.0800 U	0.120 U		0.0760 U
LHP-119-0-1	'0-1	12/4/2006					0.0200 U	0.0160 U	0.0240 U		0.0150 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006					0.0220 U	0.0170 U	0.0270 U		0.0224 J
LHP-121-0-1	'0-1	12/6/2006					0.0190 U	0.0150 U	0.0240 U		0.0150 U
LHP-122-0-1	'0-1	12/6/2006					0.0180 U	0.0140 U	0.0230 U		0.0140 U
LHP-123-0-1	'0-1	12/4/2006					0.0190 U	0.0150 U	0.0240 U		0.0287 J
LHP-124-.5-2	'0.5-2	10/27/2006					0.0351 J	0.0429 J	0.0240 U		0.126
LHP-124-10-12	'10-12	10/31/2006					0.0320 U	0.0250 U	0.0390 U		0.0240 U
LHP-124-2-4	'2-4	10/27/2006					0.0200 U	0.0444 J	0.0250 U		0.0744 J
LHP-124-28-30	'28-30	10/31/2006					0.0240 U	0.0190 U	0.0290 U		0.0180 U
LHP-125-.5-2	'0.5-2	10/27/2006					0.0471 J	0.0754	0.0240 U		0.190
LHP-125-10.5-12	'10.5-12	11/1/2006					0.0220 U	0.0170 U	0.0270 U		0.0170 U
LHP-125-12-14	'12-14	11/1/2006					0.0200 U	0.0160 U	0.0240 U		0.0150 U
LHP-125-4-6	'4-6	10/27/2006					0.0190 U	0.0150 U	0.0230 U		0.0140 U
LHP-126-10.5-12	'10.5-12	11/1/2006					0.0820 UJ	0.0650 UJ	0.100 UJ		0.0620 UJ
LHP-126-14-16	'14-16	11/1/2006					0.0200 U	0.0160 U	0.0250 U		0.0150 U
LHP-126-2-4	'2-4	10/26/2006					0.0190 U	0.0150 U	0.0230 U		0.0159 J
LHP-126-8-10	'9-10	10/26/2006					0.0210 U	0.0170 U	0.0260 U		0.0160 U
LHP-127-0-1	'0-1	12/6/2006					0.0430 J	0.0211 J	0.0220 U		0.111
LHP-127-3-5	'3-5	12/6/2006					0.0180 U	0.0140 U	0.0220 U		0.0140 U
LHP-128-0-1	'0-4	12/6/2006					0.0180 U	0.0140 U	0.0220 U		0.0130 U
LHP-128-7-8	'17-17	12/6/2006					0.0230 U	0.0190 U	0.0290 U		0.0201 J
LP-1-0-0.5	'0-0.5	8/27/2001					0.0750 U	0.0750 U			0.0750 U
LP-10-0.5-2	'0.5-2	8/27/2001					0.0840 U	0.0840 U			0.0840 U
LP-10-0-0.5	'0-0.5	8/27/2001					0.0760 U	0.0760 U			0.0273 J
LP-101-11-13	'11-13	11/2/2006					0.0320 U	0.0250 U	0.0390 U		0.0240 U
LP-101-14-16	'14-16	11/2/2006					0.0280 U	0.0220 U	0.0340 U		0.0210 U
LP-101-26-28	'26-28	11/2/2006					0.0200 U	0.0160 U	0.0240 U		0.0150 U
LP-101-50-52	'50-52	11/2/2006					0.0190 U	0.0150 U	0.0240 U		0.0150 U
LP-11-0-0.5	'0-0.5	8/27/2001					0.0840 U	0.0840 U			0.0466 J
LP-12-0-0.5	'0-0.5	8/27/2001					0.0740 U	0.0740 U			0.0740 U
LP-12-4-6	'4-6	8/27/2001					0.0730 U	0.0730 U			0.0730 U
LP-13-0-0.5	'0-0.5	8/24/2001					0.0840 U	0.0572 J			0.0697 J
LP-14-0.5-2	'0.5-2	8/24/2001					0.0710 U	0.0710 U			0.0347 J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001					0.370 U	0.370 U			0.0967 J
LP-15-0-0.5	'0-0.5	8/24/2001					0.0760 U	0.0199 J			0.0475 J
LP-16-0.5-2	'0.5-2	8/27/2001					0.360 U	0.360 U			0.360 U
LP-16-0-0.5	'0-0.5	8/27/2001					0.0770 U	0.0238 J			0.0568 J
LP-2-0.5-2	'0.5-2	8/28/2001	1.50 JN				0.0760 U	0.0760 U			0.0678 J
LP-2-0-0.5	'0-0.5	8/28/2001					0.0750 U	0.0750 U			0.0323 J
LP-3-0-0.5	'0-0.5	8/27/2001					0.0336 J	0.0710 U			0.123
LP-4 .5-2	'0.5-2	8/21/2001					0.0298 J	0.0740 U			0.104
LP-4 0-.5	'0-0.5	8/21/2001					0.0800 U	0.0800 U			0.0248 J
LP-5-0-0.5	'0-0.5	8/27/2001					0.0750 U	0.0750 U			0.0386 J
LP-6-0-0.5	'0-0.5	8/27/2001					0.0730 U	0.0730 U			0.0443 J
LP-6-4-6	'4-6	8/27/2001					0.0740 U	0.0740 U			0.0740 U
LP-7-0-0.5	'0-0.5	8/24/2001	0.240 JN				0.0232 J	0.0202 J			0.120
LP-8-0-0.5	'0-0.5	8/24/2001					0.0424 J	0.0810 U			0.0493 J
LP-8-10-12	'10-12	8/24/2001					0.110 U	0.110 U			0.110 U
LP-9-0-0.5	'0-0.5	8/24/2001					0.370 U	0.370 U			0.370 U
MW-11D-12-14	'12-14	12/14/2006					0.0300 U	0.0240 U	0.0370 U		0.0230 U
MW-11D-14-16	'14-16	12/14/2006					0.0200 U	0.0160 U	0.0250 U		0.0150 U
MW-11D-16-18	'16-18	12/14/2006					0.0200 U	0.0160 U	0.0250 U		0.0150 U
MW-14D-13-15	'13-15	11/14/2006					0.0220 U	0.0170 U	0.0270 U		0.0170 U
MW-14D-17-19	'17-19	11/14/2006					0.0200 U	0.0160 U	0.0250 U		0.0150 U
MW-16D-13-15	'13-15	11/17/2006					0.0190 U	0.0150 U	0.0240 U		0.0150 U
MW-16D-17-19	'17-19	11/20/2006					0.0200 U	0.0160 U	0.0250 U		0.0150 U
MW-17D-15-17	'15-17	11/10/2006					0.265	0.0170 U	0.0270 U		0.138
MW-17D-17-19	'17-19	11/10/2006					0.0200 U	0.0160 U	0.0250 U		0.0150 U
MW-18D-13-15	'13-15	11/13/2006					0.0210 U	0.0170 U	0.0260 U		0.0160 U
MW-18D-17-19	'17-19	11/13/2006					0.0200 U	0.0150 U	0.0240 U		0.0150 U
MW-20D-12-14	'12-14	11/9/2006					0.0210 U	0.0160 U	0.0260 U		0.0160 U
MW-20D-32-34	'32-32.9	11/10/2006					0.0200 U	0.0150 U	0.0240 U		0.0150 U
MW-20D-36-38	'36-38	11/10/2006					0.0200 U	0.0160 U	0.0250 U		0.0150 U
MW-21D-13-15	'13-13.7	11/16/2006					0.0210 U	0.0170 U	0.0260 U		0.0160 U
MW-21D-15-17	'15-17	11/16/2006					0.0200 U	0.0160 U	0.0250 U		0.0150 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006					0.0210 U	0.0170 U	0.0260 U		0.0160 U
MW-23D-37-39	'37-37.9	11/15/2006					0.0190 U	0.0150 U	0.0240 U		0.0150 U
MW-25D-10-12	'10-12	11/21/2006					0.0360 U	0.0280 U	0.0440 U		0.0270 U
MW-25D-33-35	'33-35	12/18/2006					0.0220 U	0.0170 U	0.0270 U		0.0160 U
MW-26S-8-10	'8-10	10/26/2006					0.169	0.0180 U	0.0280 U		0.0170 UJ
MW-6D-0-2	'0-2	11/8/2006					0.0190 U	0.0150 U	0.0240 U		0.0150 U
MW-6D-12-14	'12-14	11/8/2006					0.0450 U	0.0360 U	0.0550 U		0.0340 U
MW-6D-16-18	'16-18	11/20/2006					0.0310 U	0.0250 U	0.0390 U		0.0240 U
MW-6D-30-32	'30-32	11/21/2006					0.0200 U	0.0160 U	0.0250 U		0.0150 U
PCA-1-0-.5	'0-2	7/17/2001					0.360 U	0.360 U			0.360 U
PCA-1-4-6	'4-6	7/17/2001					0.0800 U	0.0800 U			0.0800 U
PCA-2-0-.5	'0-0.5	7/17/2001					0.0730 U	0.0730 U			0.0730 U
PCA-3-0-0.5	'0-0.5	9/13/2001					0.160 U	0.0372 J			0.0694 J
PCA-3-4-6	'4-6	9/13/2001					0.0850 U	0.0850 U			0.0306 J
PCA-4-0-0.5	'0-0.5	9/13/2001					0.380 U	0.380 U			0.380 U
PCA-4-4-6	'4-6	9/26/2001					0.0830 U	0.0830 U			0.0830 U
PCA-5-0.5-2	'0.5-2	9/7/2001					0.0780 U	0.0780 U			0.0780 U
PCA-5-0-0.5	'0-0.5	9/7/2001					0.0467 J	0.0850 U			0.0252 J
PCA-6-0-0.5	'0-0.5	9/7/2001	0.170 JN				0.0312 J	0.0710 U			0.118
RR-1 0-0.5	'0-0.5	8/22/2001					14.3	0.400			11.5
RR-1 14-16	'14-16	8/22/2001	2.30 JN				0.333	0.0820 U			0.559
RR-10 0-.5	'0-0.5	10/12/2001					0.0740 U	0.0476 J			0.0788
RR-11 0-.5	'0-0.5	10/12/2001					0.0800 U	0.0230 J			0.0809
RR-12 0-.5	'0-0.5	10/12/2001					0.0780 U	0.0227 J			0.0588 J
RR-2-0-0.5	'0-0.5	9/13/2001					0.420 U	0.420 U			0.420 U
RR-2-8-10	'8-10	9/13/2001					0.0990 U	0.0990 U			0.0990 U
RR-3-0-0.5	'0-0.5	9/13/2001					0.0720 U	0.0720 U			0.0720 U
RR-4-0-0.5	'0-0.5	9/10/2001					0.210	0.425			0.922
RR-4-6-8	'6-8	9/13/2001					0.0770 U	0.0770 U			0.0234 J
RR-5-0-0.5	'0-0.5	9/10/2001	0.220 JN				0.0690 U	0.0919			0.199
RR-6-0-0.5	'0-0.5	9/10/2001					0.0720 U	0.0718 J			0.0964
RR-6-8-10	'8-10	9/10/2001					0.0760 U	0.0760 U			0.0388 J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001					0.0769	0.0760 U			0.0347 J
RR-8-0-0.5	'0-0.5	9/26/2001	0.220 JN				0.0860 U	0.0837 J			0.188
RR-8-6-8	'6-8	9/26/2001					0.140 U	0.140 U			0.140 U
RR-9 0-.5	'0-0.5	10/12/2001					0.0730 U	0.0391 J			0.0837
SC-1	'0-1	8/21/2001					0.0900 U	0.0900 U			0.0900 U
SC-2	'0-1	8/22/2001					0.0700 U	0.0700 U			0.0890
SC-3	'0-1	8/22/2001					0.0780 U	0.0270 J			0.0716 J
SILO-B1-0-0.5	'0-0.5	9/6/2001					0.0275 J	0.0770 U			0.0382 J
SILO-B1-6-8	'6-8	9/6/2001					54.2	0.300 U			16.5
SILO-B2-0-0.5	'0-0.5	9/6/2001					0.360 U	0.360 U			0.360 U
SILO-B3-0-0.5	'0-0.5	9/6/2001					0.410 U	0.410 U			0.410 U
SILO-B3-6-8	'6-8	9/6/2001					0.0740 U	0.0740 U			0.0740 U
SILO-B4-0-0.5	'0-0.5	9/6/2001					0.420 U	0.420 U			0.420 U
SPR-1-0-0.5	'0-0.5	9/5/2001					0.380 U	0.380 U		14.0 JN	0.380 U
SPR-1-8-10	'8-10	9/5/2001					0.100 U	0.100 U			0.100 U
SPR-2A-0-0.5	'0-0.5	7/19/2001			0.270 JN		0.0750 U	0.0750 U			0.0454 J
SPR-2A-8-10	'8-10	7/19/2001					0.0880 U	0.0880 U			0.0880 U
SPR-2B-0-0.5	'0-0.5	7/19/2001					0.0720 U	0.0720 U			0.0429 J
SPR-2B-10-12	'10-12	7/19/2001					0.100 U	0.100 U			0.100 U
SPR-3 0-.5	'0-0.5	8/21/2001					0.0720 U	0.0720 U			0.0720 U
SPR-3 4-6	'4-6	8/21/2001					0.0860 U	0.0860 U			0.0860 U
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.250 JN				0.0810 U	0.0814			0.104
SPR-4A-8-10	'8-10	7/19/2001					0.110 U	0.110 U			0.110 U
SPR-4B-0-0.5	'0-0.5	8/22/2001					0.0800 U	0.0800 U			0.0800 U
SPR-4B-4-6	'4-6	8/23/2001					0.0800 U	0.0800 U	0.480 JN		0.0800 U
SPR-4C-0-0.5	'0-0.5	8/23/2001					0.370 U	0.370 U			0.370 U
SPR-4C-4-6	'4-6	8/23/2001					0.0860 U	0.0860 U			0.0860 U
SPR-5-0-0.5	'0-0.5	9/5/2001	4.90 JN				5.94	2.10 U			21.1
SPR-5-2-4	'2-4	9/5/2001					0.0860 U	0.0860 U			0.0860 U
SPR-6-0.5-2	'0.5-2	9/13/2001	0.240 JN				0.0722 J	0.0240 J			0.213
SPR-6-0-0.5	'0-0.5	9/13/2001					0.0680 U	0.0680 U			0.0680 U
SR-1-0-.5	'0-0.5	7/17/2001					0.0710 U	0.0380 J			0.0252 J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001					0.0680 U	0.0680 U			0.0377 J
ST-1-0-0.5	'0-0.5	9/5/2001					0.400 U	0.400 U			0.400 U
ST-2-0-0.5	'0-0.5	9/5/2001					0.400 U	0.400 U			0.283 J
ST-3-0-0.5	'0-0.5	9/4/2001					0.0790 U	0.0790 U			0.0790 U
ST-3-4-6	'4-6	9/4/2001					0.174	0.0661 J			0.633
TES-1-0-1	'0-1	12/5/2006					0.0980 U	0.0780 U			0.0909 J
TES-2-0-1	'0-1	12/4/2006					0.210 U	0.170 U	0.260 U		0.160 U
TES-3-0-1	'0-1	12/4/2006					0.100 U	0.0830 U	0.146 J		0.0790 U
TES-4-0-1	'0-1	12/5/2006					0.0190 U	0.0811			0.154
TLN-1 .5-2	'0.5-2	8/20/2001					0.0840 U	0.0840 U			0.0586 J
TLN-1 0-.5	'0-0.5	8/20/2001					0.0830 U	0.0241 J			0.0481 J
TLN-2-0-0.5	'0-0.5	7/19/2001				0.600 JN	0.0740 U	0.0740 U			0.0740 U
TLN-3-0-.5	'0-0.5	7/17/2001					11.9	0.340 U			14.9
TLN-3-2-4	'2-4	7/17/2001					0.0780 U	0.0780 U			0.0780 U
TLN-4 0-.5	'0-0.5	8/20/2001					0.0690 U	0.0690 U			0.0100 J
TLN-4 0-.5 DUP	'0-0.5	8/20/2001					0.0730 U	0.0730 U			0.0167 J
TLN-5 .5-2	'0.5-2	8/20/2001					0.0386 J	0.0720 U			0.0788
TLN-5 0-.5	'0-0.5	8/20/2001					0.0720 U	0.0656 J			0.0939
TLN-5-4-6	'4-6	8/30/2001					0.0730 U	0.0730 U			0.0388 J
TLN-6 0-.5	'0-0.5	8/20/2001					0.0720 U	0.0720 U			0.141
TLS-10 0-.5	'0-0.5	8/21/2001					0.0780 U	0.0780 U			0.0780 U
TLS-10 8-10	'8-10	8/21/2001					0.0970 U	0.0970 U			0.120
TLS-1-0-0.5	'0-0.5	9/5/2001					0.390 U	0.390 U			0.390 U
TLS-11-0-0.5	'0-0.5	9/7/2001					0.0750 U	0.0282 J			0.0610 J
TLS-2-0-0.5	'0-0.5	9/7/2001					0.370 U	0.370 U			0.370 U
TLS-2-6-8	'6-8	9/7/2001					0.120 U	0.120 U			0.120 U
TLS-3 0-.5	'0-0.5	8/21/2001					0.0740 U	0.0740 U			0.0351 J
TLS-4-0-0.5	'0-0.5	9/7/2001					0.0730 U	0.0186 J			0.0284 J
TLS-4-8-10	'8-10	9/7/2001					0.341	0.110 U			0.0538 J
TLS-5 0-0.5	'0-0.5	8/21/2001					0.0710 U	0.0710 U			0.0710 U
TLS-5-8-10	'8-10	9/26/2001					0.280	0.100 U			0.100 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	9,10-Anthracenedione	9-Anthracenecarbonitrile	9-Hexadecenoic Acid	9-Octadecenamide, (z)-	Acenaphthene	Acenaphthylene	Acetophenone	Alpha_-Pinene	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001					0.0900 U	0.0900 U			0.0465 J
TLS-6-3-5	'3-5	9/26/2001					8.90 U	8.90 U			8.90 U
TLS-7 0-.5	'0-0.5	8/21/2001					0.0990 U	0.0990 U			0.0432 J
TLS-8-0-0.5	'0-0.5	9/7/2001					0.0760 U	0.0760 U			0.0760 U
TLS-8-6-8	'6-8	9/7/2001					0.0471 J	0.0870 U			0.0420 J
TLS-9 0-.5	'0-0.5	8/21/2001					0.360 U	0.360 U			0.360 U
TP-105	'0-0	6/8/2007					0.0170 U	0.0140 U	0.0210 U		0.0130 U
TP-105A	'0-0	6/8/2007					0.0170 U	0.0130 U	0.0210 U		0.0130 U
TP-106-A	'0-0	6/8/2007					0.0170 U	0.0140 U	0.0220 U		0.0130 U
TP-106-B	'0-0	6/8/2007					0.0170 U	0.0140 U	0.0210 U		0.0130 U
WWT-1-0-0.5	'0-0.5	7/19/2001					0.390 U	0.390 U			0.390 U
WWT-101-15-17	'15-17	11/6/2006					0.0210 U	0.0170 U	0.0260 U		0.0160 U
WWT-101-21-23	'21-23	11/6/2006					0.0200 U	0.0160 U	0.0250 U		0.0150 U
WWT-1-12-14	'12-14	8/23/2001	110. JN				2.34 J	5.20 U			12.8
WWT-2-0-0.5	'0-0.5	8/23/2001					0.0720 U	0.0720 U			0.0426 J
WWT-2-12-14	'12-14	8/23/2001					0.250 U	0.250 U			0.130 J
WWT-3-0-0.5	'0-0.5	8/23/2001					0.360 U	0.360 U			0.0707 J
WWT-3-12-14	'12-14	8/23/2001	0.710 JN				0.116 J	0.160 U			5.98

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS				2400		68000					
12K-B1-0.5-2	'0.5-2	9/6/2001									
12K-B1-0-0.5	'0-0.5	9/6/2001									
12K-B2-0.5-2	'0.5-2	9/6/2001									
12K-B2-0-0.5	'0-0.5	9/6/2001									
150K-1-0.5-2	'0.5-2	9/10/2001									
150K-1-0-0.5	'0-0.5	9/10/2001									
230-B1-0.5	'0-0.5	10/2/2001									
230-B10-0-0.5	'0-0.5	8/30/2001									
230-B10-1.5-2	'1.5-2	8/30/2001									
230-B11-0-0.5	'0-0.5	8/30/2001									
230-B11-1.5-2	'1.5-2	8/30/2001									
230-B1-4-6	'4-6	10/2/2001									
230-B2-0-0.5	'0-0.5	8/30/2001									
230-B2-1.5-2	'1.5-2	8/30/2001									
230-B3-0-0.5	'0-0.5	8/30/2001									
230-B3-1.5-2	'1.5-2	8/30/2001									
230-B4-0-0.5	'0-0.5	8/30/2001									
230-B4-1.5-2	'1.5-2	8/30/2001									
230-B5-0-0.5	'0-0.5	9/13/2001									
230-B5-1.5-2	'1.5-2	9/13/2001									
230-B6 0-0.5	'0-0.5	8/22/2001									
230-B6 1.5-2	'1.5-2	8/22/2001									
230-B7 0-0.5	'0-0.5	8/22/2001									
230-B7 1.5-2	'1.5-2	8/22/2001									
230-B8 1.5-2	'1.5-2	8/22/2001									
230-B9 0-0.5	'0-0.5	8/22/2001									
230-B9 0-0.5	'0-0.5	8/22/2001									
230-B9 1.5-2	'1.5-2	8/22/2001									
231-B1-0-0.5	'0-0.5	10/5/2001									
231-B10-0-0.5	'0-0.5	9/17/2001									
231-B11-0-0.5	'0-0.5	9/19/2001									

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001									
231-B12-0-0.5	'0-0.5	9/17/2001									
231-B13-0-0.5	'0-0.5	9/19/2001									
231-B13-8-10	'9-10	9/27/2001									
231-B14-0-0.5	'0-0.5	9/19/2001									
231-B2-0.5-2	'0.5-2	8/22/2001									
231-B2-0-0.5	'0-0.5	8/22/2001									
231-B3-0-0.5	'0-0.5	8/22/2001									
231-B4-0-0.5	'0-0.5	8/30/2001									
231-B4-6-8	'6-8	9/27/2001									
231-B5-0.5-2	'0.5-2	9/19/2001									
231-B6-0-0.5	'0-0.5	9/27/2001									
231-B6-4-6	'4-6	9/27/2001									
231-B7-0-0.5	'0-0.5	9/13/2001									
231-B8-0-0.5	'0-0.5	9/27/2001									
231-B8-8-10	'8-10	9/27/2001									
231-B9-0.5-2	'0.5-2	9/27/2001									
231-B9-0-0.5	'0-0.5	9/27/2001									
240-1-0-0.5	'0-0.5	9/26/2001									
240-1-8-10	'8-10	10/1/2001									
5K-B1-0-0.5	'0-0.5	10/1/2001									
5K-B2-0-0.5	'0-0.5	8/31/2001									
5K-B2-8-10	'8-10	8/31/2001									
5K-B3-0-0.5	'0-0.5	9/26/2001						0.160 JN			
5K-B4-0-0.5	'0-0.5	10/1/2001									
5K-B4-4-6	'4-6	10/1/2001									
5K-B5-0-0.5	'0-0.5	8/31/2001									
5K-B5-4-6	'4-6	9/26/2001									
AB-1-0-0.5	'0-0.5	9/4/2001									
AB-2-0.5-2	'0.5-2	9/4/2001									
AB-2-0-0.5	'0-0.5	9/4/2001									
ADN-1-0-0.5	'0-0.5	9/5/2001									

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001									
ADN-2-0-0.5	'0-0.5	9/5/2001									
ADN-2-10-11	'10-11	9/27/2001									
ADS-1-0-.5	'0-0.5	7/17/2001									
ADS-10-0-0.5	'0-2	7/18/2001									
ADS-101-0-1	'0-1	12/5/2006		0.0340 U		0.0430 U					
ADS-101-1-3	'1-3	12/5/2006		0.0330 U		0.0420 U					
ADS-102-0-1.5	'0-2	12/5/2006		0.0320 U		0.0410 U					
ADS-102-7-8	'4-8	12/5/2006		0.0350 U		0.0440 U					
ADS-10-4-6	'4-6	7/18/2001									
ADS-11-0-0.5	'0-2	7/18/2001									
ADS-12-0.5-2	'0.5-2	7/18/2001									
ADS-12-0-0.5	'0-0.5	7/18/2001									
ADS-2-0-0.5	'0-0.5	7/18/2001									
ADS-2-4-6	'4-6	7/18/2001									
ADS-3-0-0.5	'0-0.5	7/18/2001									
ADS-4-0-0.5	'0-2	7/18/2001					0.260 JN				
ADS-4-12-14	'12-14	7/18/2001									
ADS-5-0-0.5	'0-0.5	7/18/2001									
ADS-5-4-6	'4-6	9/27/2001									
ADS-6-0.5-2	'0.5-2	7/18/2001							0.870 JN		
ADS-6-0-0.5	'0-0.5	7/18/2001									
ADS-7-0-.5	'0-0.5	7/17/2001									
ADS-8-0-0.5	'0-0.5	7/18/2001									
ADS-8-4-6	'4-6	7/18/2001									
ADS-9-0-0.5	'0-0.5	7/18/2001									
BLIND DUP	'0-0	8/21/2001									
BSL-10-0-1	'0-1	9/21/2001									
BSL-1-0-1	'0-1	9/20/2001									
BSL-11-0-1	'0-1	9/26/2001									
BSL-12-0-1	'0-1	9/26/2001									
BSL-1-4-6	'4-6	9/20/2001									

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001									
BSL-3-0-0.5	'0-0.5	9/20/2001									
BSL-4-0-1	'0-0.5	9/21/2001									
BSL-4-4-6	'4-6	9/21/2001									
BSL-5-0-.5	'0-0.5	9/21/2001									
BSL-6-0-1	'0-1	9/26/2001									
BSL-6-1-2	'1-2	9/26/2001									
BSL-7-0-.5	'0-0.5	9/21/2001									
BSL-8-0-1	'0-1	9/26/2001									
BSL-9-.5-2	'0.5-2	9/21/2001									
BSL-9-0-.5	'0-0.5	9/21/2001									
BT-B1-0-0.5	'0-0.5	9/18/2001									
BT-B2-0.5-2	'0.5-2	9/18/2001									
BT-B2-0-0.5	'0-0.5	9/18/2001									
BT-B3-0-0.5	'0-0.5	9/18/2001							4.30 JN	1.10 JN	
BT-B4-0.5-2	'0.5-2	8/30/2001									
BT-B4-0-0.5	'0-0.5	8/30/2001									
BT-B5-0-.5	'0-0.5	10/2/2001									
BT-B6-0.5-2	'0.5-2	9/17/2001									
BT-B6-0-0.5	'0-0.5	9/17/2001									
CF-1-0-0.5	'0-0.5	8/31/2001									
CF-1-2-4	'2-4	8/31/2001			0.630 JN						
CF-2-0-0.5	'0-0.5	8/28/2001									
CF-3-0.5-2	'0.5-2	8/28/2001									
CF-3-0-0.5	'0-0.5	8/28/2001									
CF-4-0-0.5	'0-0.5	8/28/2001									
CF-5-0-0.5	'0-0.5	8/28/2001									
CF-5-4-6	'4-6	8/28/2001									
CF-6-0-0.5	'0-0.5	8/28/2001									
CF-7-0-0.5	'0-0.5	8/28/2001									
CF-7-4-6	'4-6	8/28/2001									
CF-8-0-0.5	'0-0.5	8/28/2001									

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001									
CF-9-0-0.5	'0-0.5	8/31/2001									
DC-B12-0-0.5	'0-0.5	10/3/2001									
DC-B12-2-4	'2-4	10/3/2001									
DC-SS1-0-0.5	'0-0.5	9/18/2001									
DC-SS11-0-0.5	'0-0.5	9/17/2001									
DC-SS13-0-0.5	'0-0.5	9/17/2001									
DC-SS15-0-0.5	'0-0.5	9/17/2001									
DC-SS17-0-0.5	'0-0.5	9/17/2001									
DC-SS2-0-0.5	'0-0.5	9/17/2001									
DC-SS3-0-0.5	'0-0.5	9/17/2001									
DC-SS6-0-0.5	'0-0.5	9/17/2001									
DC-SS7-0-0.5	'0-0.5	9/17/2001									
DC-SS9-0-0.5	'0-0.5	9/17/2001									
DSP-1-0-0.5	'0-0.5	10/3/2001									
DSP-1-4-6	'4-6	11/19/2001									
DSP-2-0-0.5	'0-0.5	9/4/2001									
DSP-3-0-0.5	'0-0.5	9/4/2001									
DSP-3-2-4	'2-4	9/4/2001									
DSP-4-0-0.5	'0-0.5	9/4/2001									
DSP-4-4-6	'4-6	9/26/2001									
DUP-01-010824	'0-0.5	8/24/2001									
DUP-01-010831	'2-4	8/31/2001									
DUP-01-010904	'0-0.5	9/4/2001									
DUP-01-010905	'8-10	9/5/2001									
DUP-01-010906	'0-8	9/6/2001									
DUP-01-010913	'0-0.5	9/13/2001									
DUP-01-010917	'0-0.5	9/17/2001									
DUP-01-010926	'1-2	9/26/2001									
DUP-01-010927	'4-6	9/27/2001									
DUP-01-021001	'0-0	10/2/2001									
DUP-01-08 2201	'1.5-2	8/22/2001									

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001									
DUP-01-170402	'0-0	4/17/2002									
DUP-02-010913	'0-0.5	9/13/2001									
DUP-02-010921	'0-1	9/21/2001									
DUP-02-010926	'4-6	9/26/2001									
DUP060807	'0-0	6/8/2007		0.0300 U		0.0380 U					
DUP-1-010828	'0-0.5	8/28/2001									
DUP-1-010921	'0-0.5	9/21/2001									
DUP110606	'15-17	11/6/2006		0.0360 U		0.0460 U					
DUP112006	'16-18	11/20/2006		0.0570 U		0.0720 U					
DUP112106	'10-12	11/21/2006		0.0590 U		0.0750 U					
DUP-120506	'0-4	12/5/2006		0.0880 U		0.110 U					
DUP-120606	'0-4	12/6/2006		0.0300 U		0.0380 U					
DUPE071801	'0-0.5	7/18/2001									
EC-1	'0-1	8/21/2001									
EC-2	'0-1	8/21/2001									
EC-3	'0-1	8/21/2001									
EC-4	'0-1	8/21/2001									
EC-5	'0-1	8/21/2001									
EC-6	'0-1	8/21/2001									
EC-7	'0-1	8/21/2001									
EC-8	'0-1	8/21/2001									
EC-9	'0-1	8/21/2001									
ESR-1-0-1	'0-0.5	9/4/2001									
ESR-1-4-6	'4-6	9/4/2001									
HB-101A	'17-17	3/5/2007		0.0330 U		0.0420 U					
HB-102A	'0-0	3/13/2007		0.0520 U		0.0660 U					
HB-102B	'0-0	3/14/2007		0.0350 U		0.0450 U					
HB-102C	'0-0	3/14/2007		0.0330 U		0.0420 U					
H-B-103A	'17-17	2/20/2007		0.0460 U		0.0580 U					
H-B-104A	'17-17	2/23/2007		0.0360 U		0.0450 U					
H-B-104B	'17-17	2/23/2007		0.0330 U		0.0420 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007		0.0360 U		0.0460 U					
H-B-104D	'17-17	2/27/2007		0.0340 U		0.0430 U					
H-B-104E	'17-17	2/27/2007		0.0340 U		0.0430 U					
H-B-105C	'17-17	2/8/2007		0.0320 U		0.0410 U					
H-B-105D	'17-17	2/8/2007		0.0350 U		0.0450 U					
H-B-105E	'0-0	2/8/2007		0.0350 U		0.0450 U					
HB-1A	'6.75-6.75	4/18/2002									
HB-3A	'5.25-5.25	4/17/2002									
HB-3B	'4.5-4.5	4/17/2002									
HB-3C	'4.5-4.5	4/18/2002									
HB-3D	'4.5-4.5	4/18/2002									
HB-4A	'5.33-5.33	4/19/2002									
HB-5A	'3-3	4/22/2002									
HB-7A	'5-5	4/19/2002									
HB-8A	'3-3	4/23/2002									
HB-8B	'4.83-4.83	4/23/2002									
HB-8C	'5.5-5.5	4/23/2002									
HB-9A	'4.75-4.75	4/24/2002									
HF-B1-0-0.5	'0-0.5	9/10/2001									
HF-B1-8-10	'8-10	9/10/2001									
HF-B2-0-0.5	'0-0.5	9/4/2001									
HF-B2-4-6	'4-6	9/4/2001									
HF-B3-0-.5	'0-0.5	10/2/2001									
HF-B3-8-10	'8-10	10/2/2001									
IB-1-0-2	'0-2	4/8/2002									
IB-1-4-6	'4-6	4/8/2002									
IB-2-12-14	'12-14	4/8/2002									
IB-2-4-6	'4-6	4/8/2002									
IB-3-4-6	'4-6	4/8/2002									
IB-3-8-10	'8-10	4/8/2002									
LB-101-0-1	'0-1	12/6/2006		0.0310 U		0.0390 U					
LB-101-1-3	'1-3	12/6/2006		0.0290 U		0.0370 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006		0.0320 U		0.0410 U					
LB-102-1-3	'3-7	12/6/2006		0.0320 U		0.0400 U					
LB-103-0-1	'0-1	12/6/2006		0.0310 U		0.0390 U					
LB-103-5-7	'5-7	12/6/2006		0.0350 U		0.0450 U					
LHP-101-0-1	'0-1	12/4/2006		0.160 U		0.200 U					
LHP-101-5-8	'4-8	12/4/2006		0.110 U		0.140 U					
LHP-102-0-1	'0-1	12/5/2006		0.0320 U		0.0410 U					
LHP-102-7-9	'7-9	12/5/2006		0.0400 U		0.0510 U					
LHP-103-0-1	'0-1	12/5/2006		0.160 U		0.210 U					
LHP-103-1-3	'1-3	12/5/2006		0.0350 U		0.0450 U					
LHP-104-0-1	'0-1	12/5/2006		0.0300 U		0.0380 U					
LHP-104-7-9	'4-8	12/5/2006		0.0340 U		0.0430 U					
LHP-105-0-1	'0-1	12/5/2006		0.150 U		0.190 U					
LHP-105-1-3	'1-3	12/5/2006		0.0300 U		0.0390 U					
LHP-106-0-1	'0-1	12/4/2006		0.150 U		0.190 U					
LHP-106-1-3	'1-3	12/4/2006		0.180 U		0.230 U					
LHP-107-0-1	'0-1	12/5/2006		0.0310 U		0.0390 U					
LHP-107-5-7	'4-8	12/5/2006		0.0330 U		0.0420 U					
LHP-108-0-1	'0-1	12/6/2006		0.0320 U		0.0410 U					
LHP-108-3-7	'3-7	12/6/2006		0.0350 U		0.0440 U					
LHP-109-0-1	'0-1	12/6/2006		0.0330 U		0.0420 U					
LHP-109-7-9	'7-9	12/6/2006		0.0400 U		0.0500 U					
LHP-110-0-1	'0-1	12/4/2006		0.330 U		0.420 UJ					
LHP-111-0-1	'0-1	12/4/2006		0.0320 U		0.0410 U					
LHP-112-0-1	'0-1	12/4/2006		0.0330 U		0.0410 U					
LHP-113-0-1	'0-1	12/4/2006		0.0300 U		0.0390 U					
LHP-114-0-1	'0-1	12/4/2006		0.0310 U		0.0400 U					
LHP-115-0-1	'0-1	12/4/2006		0.0300 U		0.0380 U					
LHP-116-0-1	'0-1	12/4/2006		0.0320 U		0.0410 U					
LHP-117-0-1	'0-1	12/4/2006		0.0330 U		0.0420 U					
LHP-118-0-1	'0-1	12/4/2006		0.170 U		0.220 U					
LHP-119-0-1	'0-1	12/4/2006		0.0330 U		0.0420 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006		0.0370 U		0.0470 U					
LHP-121-0-1	'0-1	12/6/2006		0.0330 U		0.0410 U					
LHP-122-0-1	'0-1	12/6/2006		0.0310 U		0.0390 U					
LHP-123-0-1	'0-1	12/4/2006		0.0330 U		0.0420 U					
LHP-124-.5-2	'0.5-2	10/27/2006		0.0330 U		0.0430 U					
LHP-124-10-12	'10-12	10/31/2006		0.0530 U		0.0680 U					
LHP-124-2-4	'2-4	10/27/2006		0.0340 U		0.0430 U					
LHP-124-28-30	'28-30	10/31/2006		0.0400 U		0.0510 U					
LHP-125-.5-2	'0.5-2	10/27/2006		0.0330 U		0.0410 U					
LHP-125-10.5-12	'10.5-12	11/1/2006		0.0370 U		0.0470 U					
LHP-125-12-14	'12-14	11/1/2006		0.0330 U		0.0420 U					
LHP-125-4-6	'4-6	10/27/2006		0.0320 U		0.0410 U					
LHP-126-10.5-12	'10.5-12	11/1/2006		0.140 UJ		0.180 UJ					
LHP-126-14-16	'14-16	11/1/2006		0.0340 U		0.0440 U					
LHP-126-2-4	'2-4	10/26/2006		0.0320 U		0.0410 U					
LHP-126-8-10	'9-10	10/26/2006		0.0350 U		0.0450 U					
LHP-127-0-1	'0-1	12/6/2006		0.0310 U		0.0390 U					
LHP-127-3-5	'3-5	12/6/2006		0.0300 U		0.0390 U					
LHP-128-0-1	'0-4	12/6/2006		0.0300 U		0.0380 U					
LHP-128-7-8	'17-17	12/6/2006		0.0400 U		0.0500 U					
LP-1-0-0.5	'0-0.5	8/27/2001									
LP-10-0.5-2	'0.5-2	8/27/2001									
LP-10-0-0.5	'0-0.5	8/27/2001									
LP-101-11-13	'11-13	11/2/2006		0.0540 U		0.0680 U					
LP-101-14-16	'14-16	11/2/2006		0.0470 U		0.0590 U					
LP-101-26-28	'26-28	11/2/2006		0.0330 U		0.0430 U					
LP-101-50-52	'50-52	11/2/2006		0.0330 U		0.0420 U					
LP-11-0-0.5	'0-0.5	8/27/2001									
LP-12-0-0.5	'0-0.5	8/27/2001									
LP-12-4-6	'4-6	8/27/2001									
LP-13-0-0.5	'0-0.5	8/24/2001									
LP-14-0.5-2	'0.5-2	8/24/2001									

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001									
LP-15-0-0.5	'0-0.5	8/24/2001									
LP-16-0.5-2	'0.5-2	8/27/2001									
LP-16-0-0.5	'0-0.5	8/27/2001									
LP-2-0.5-2	'0.5-2	8/28/2001									
LP-2-0-0.5	'0-0.5	8/28/2001									
LP-3-0-0.5	'0-0.5	8/27/2001									
LP-4 .5-2	'0.5-2	8/21/2001									
LP-4 0-.5	'0-0.5	8/21/2001									
LP-5-0-0.5	'0-0.5	8/27/2001									
LP-6-0-0.5	'0-0.5	8/27/2001									
LP-6-4-6	'4-6	8/27/2001									
LP-7-0-0.5	'0-0.5	8/24/2001									
LP-8-0-0.5	'0-0.5	8/24/2001									
LP-8-10-12	'10-12	8/24/2001									
LP-9-0-0.5	'0-0.5	8/24/2001									
MW-11D-12-14	'12-14	12/14/2006		0.0510 U		0.0650 U					
MW-11D-14-16	'14-16	12/14/2006		0.0340 U		0.0440 U					
MW-11D-16-18	'16-18	12/14/2006		0.0340 U		0.0430 U					
MW-14D-13-15	'13-15	11/14/2006		0.0370 U		0.0470 U					
MW-14D-17-19	'17-19	11/14/2006		0.0340 U		0.0430 U					
MW-16D-13-15	'13-15	11/17/2006		0.0330 U		0.0420 U					
MW-16D-17-19	'17-19	11/20/2006		0.0340 U		0.0430 U					
MW-17D-15-17	'15-17	11/10/2006		0.0370 U		0.0470 U					
MW-17D-17-19	'17-19	11/10/2006		0.0340 U		0.0430 U					
MW-18D-13-15	'13-15	11/13/2006		0.0360 U		0.0460 U					
MW-18D-17-19	'17-19	11/13/2006		0.0330 U		0.0420 U					
MW-20D-12-14	'12-14	11/9/2006		0.0350 U		0.0450 U					
MW-20D-32-34	'32-32.9	11/10/2006		0.0330 U		0.0420 U					
MW-20D-36-38	'36-38	11/10/2006		0.0340 U		0.0430 U					
MW-21D-13-15	'13-13.7	11/16/2006		0.0360 U		0.0450 U					
MW-21D-15-17	'15-17	11/16/2006		0.0340 U		0.0430 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006		0.0360 U		0.0450 U					
MW-23D-37-39	'37-37.9	11/15/2006		0.0330 U		0.0420 U					
MW-25D-10-12	'10-12	11/21/2006		0.0610 U		0.0770 U					
MW-25D-33-35	'33-35	12/18/2006		0.0370 U		0.0470 U					
MW-26S-8-10	'8-10	10/26/2006		0.0380 U		0.0480 U					
MW-6D-0-2	'0-2	11/8/2006		0.0330 U		0.0420 U					
MW-6D-12-14	'12-14	11/8/2006		0.0760 U		0.0970 U					
MW-6D-16-18	'16-18	11/20/2006		0.0530 U		0.0680 U					
MW-6D-30-32	'30-32	11/21/2006		0.0340 U		0.0430 U					
PCA-1-0-.5	'0-2	7/17/2001									
PCA-1-4-6	'4-6	7/17/2001									
PCA-2-0-.5	'0-0.5	7/17/2001									
PCA-3-0-0.5	'0-0.5	9/13/2001									
PCA-3-4-6	'4-6	9/13/2001									
PCA-4-0-0.5	'0-0.5	9/13/2001									
PCA-4-4-6	'4-6	9/26/2001									
PCA-5-0.5-2	'0.5-2	9/7/2001									
PCA-5-0-0.5	'0-0.5	9/7/2001									
PCA-6-0-0.5	'0-0.5	9/7/2001									
RR-1 0-0.5	'0-0.5	8/22/2001									
RR-1 14-16	'14-16	8/22/2001									
RR-10 0-.5	'0-0.5	10/12/2001									
RR-11 0-.5	'0-0.5	10/12/2001									
RR-12 0-.5	'0-0.5	10/12/2001									
RR-2-0-0.5	'0-0.5	9/13/2001									
RR-2-8-10	'8-10	9/13/2001									
RR-3-0-0.5	'0-0.5	9/13/2001									
RR-4-0-0.5	'0-0.5	9/10/2001									
RR-4-6-8	'6-8	9/13/2001									
RR-5-0-0.5	'0-0.5	9/10/2001									
RR-6-0-0.5	'0-0.5	9/10/2001									
RR-6-8-10	'8-10	9/10/2001									

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001									
RR-8-0-0.5	'0-0.5	9/26/2001									
RR-8-6-8	'6-8	9/26/2001									
RR-9 0-.5	'0-0.5	10/12/2001									
SC-1	'0-1	8/21/2001									
SC-2	'0-1	8/22/2001									
SC-3	'0-1	8/22/2001									
SILO-B1-0-0.5	'0-0.5	9/6/2001									
SILO-B1-6-8	'6-8	9/6/2001									
SILO-B2-0-0.5	'0-0.5	9/6/2001									
SILO-B3-0-0.5	'0-0.5	9/6/2001									
SILO-B3-6-8	'6-8	9/6/2001									
SILO-B4-0-0.5	'0-0.5	9/6/2001									
SPR-1-0-0.5	'0-0.5	9/5/2001									
SPR-1-8-10	'8-10	9/5/2001									
SPR-2A-0-0.5	'0-0.5	7/19/2001									
SPR-2A-8-10	'8-10	7/19/2001									
SPR-2B-0-0.5	'0-0.5	7/19/2001									
SPR-2B-10-12	'10-12	7/19/2001									
SPR-3 0-.5	'0-0.5	8/21/2001									
SPR-3 4-6	'4-6	8/21/2001									
SPR-4A-0-0.5	'0-0.5	7/19/2001									
SPR-4A-8-10	'8-10	7/19/2001									
SPR-4B-0-0.5	'0-0.5	8/22/2001									
SPR-4B-4-6	'4-6	8/23/2001									
SPR-4C-0-0.5	'0-0.5	8/23/2001									
SPR-4C-4-6	'4-6	8/23/2001									
SPR-5-0-0.5	'0-0.5	9/5/2001									
SPR-5-2-4	'2-4	9/5/2001									
SPR-6-0.5-2	'0.5-2	9/13/2001	0.310 JN								
SPR-6-0-0.5	'0-0.5	9/13/2001									
SR-1-0-.5	'0-0.5	7/17/2001									

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001									
ST-1-0-0.5	'0-0.5	9/5/2001									
ST-2-0-0.5	'0-0.5	9/5/2001									
ST-3-0-0.5	'0-0.5	9/4/2001									
ST-3-4-6	'4-6	9/4/2001									
TES-1-0-1	'0-1	12/5/2006									
TES-2-0-1	'0-1	12/4/2006		0.350 U		0.450 U					
TES-3-0-1	'0-1	12/4/2006		0.180 U		0.246 J					
TES-4-0-1	'0-1	12/5/2006									
TLN-1 .5-2	'0.5-2	8/20/2001									
TLN-1 0-.5	'0-0.5	8/20/2001							1.00 JN	0.240 JN	
TLN-2-0-0.5	'0-0.5	7/19/2001									
TLN-3-0-.5	'0-0.5	7/17/2001									
TLN-3-2-4	'2-4	7/17/2001									
TLN-4 0-.5	'0-0.5	8/20/2001									
TLN-4 0-.5 DUP	'0-0.5	8/20/2001									
TLN-5 .5-2	'0.5-2	8/20/2001									
TLN-5 0-.5	'0-0.5	8/20/2001									
TLN-5-4-6	'4-6	8/30/2001									
TLN-6 0-.5	'0-0.5	8/20/2001									
TLS-10 0-.5	'0-0.5	8/21/2001									
TLS-10 8-10	'8-10	8/21/2001									
TLS-1-0-0.5	'0-0.5	9/5/2001									
TLS-11-0-0.5	'0-0.5	9/7/2001									
TLS-2-0-0.5	'0-0.5	9/7/2001									
TLS-2-6-8	'6-8	9/7/2001									
TLS-3 0-.5	'0-0.5	8/21/2001									
TLS-4-0-0.5	'0-0.5	9/7/2001									
TLS-4-8-10	'8-10	9/7/2001									
TLS-5 0-0.5	'0-0.5	8/21/2001									
TLS-5-8-10	'8-10	9/26/2001									

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Anthrone	Atrazine	Azulene, 7-Ethyl-1,4-Dimethyl-	Benzaldehyde	Benzalphthalide	Benzene, (1-Pentylheptyl)-	Benzene, Pentachloro-	Benzene, Pentachloronitro-	Benzenesulfonamide, 4-Methyl-
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001									
TLS-6-3-5	'3-5	9/26/2001									
TLS-7 0-.5	'0-0.5	8/21/2001									
TLS-8-0-0.5	'0-0.5	9/7/2001									
TLS-8-6-8	'6-8	9/7/2001									
TLS-9 0-.5	'0-0.5	8/21/2001									
TP-105	'0-0	6/8/2007		0.0290 U		0.0370 U					
TP-105A	'0-0	6/8/2007		0.0290 U		0.0370 U					
TP-106-A	'0-0	6/8/2007		0.0300 U		0.0380 U					
TP-106-B	'0-0	6/8/2007		0.0290 U		0.0370 U					
WWT-1-0-0.5	'0-0.5	7/19/2001									
WWT-101-15-17	'15-17	11/6/2006		0.0360 U		0.0460 U					
WWT-101-21-23	'21-23	11/6/2006		0.0340 U		0.0440 U					
WWT-1-12-14	'12-14	8/23/2001									
WWT-2-0-0.5	'0-0.5	8/23/2001									0.640 JN
WWT-2-12-14	'12-14	8/23/2001									2.00 JN
WWT-3-0-0.5	'0-0.5	8/23/2001									
WWT-3-12-14	'12-14	8/23/2001									

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			2	0_2	2	30000	23					
12K-B1-0.5-2	'0.5-2	9/6/2001	0.0850 U	0.0850 U	0.0850 U	0.0850 U	0.0850 U					
12K-B1-0-0.5	'0-0.5	9/6/2001	0.0790 UJ	0.0790 UJ	0.0790 UJ	0.0790 UJ	0.0790 UJ					
12K-B2-0.5-2	'0.5-2	9/6/2001	0.0790 U	0.0790 U	0.0790 U	0.0790 U	0.0790 U					
12K-B2-0-0.5	'0-0.5	9/6/2001	0.0334 J	0.0810 U	0.0865	0.0810 U	0.0810 U					
150K-1-0.5-2	'0.5-2	9/10/2001	0.1270	0.0676 J	0.0960	0.0270 J	0.0446 J					
150K-1-0-0.5	'0-0.5	9/10/2001	0.4720 J	0.1080 J	0.2100 J	0.4000 UJ	0.4000 UJ					
230-B1-0.5	'0-0.5	10/2/2001	1.0100	0.6060	0.9950	0.1490	0.4280					
230-B10-0-0.5	'0-0.5	8/30/2001	0.1380	0.0504 J	0.1380 J	0.0990 UJ	0.0564 J					
230-B10-1.5-2	'1.5-2	8/30/2001	0.3030	0.0929	0.2030	0.0278 J	0.0821 J					
230-B11-0-0.5	'0-0.5	8/30/2001	0.0268 J	0.0224 J	0.0586 J	0.0720 U	0.0225 J					
230-B11-1.5-2	'1.5-2	8/30/2001	0.2440	0.0865	0.1570	0.0198 J	0.0626 J					
230-B1-4-6	'4-6	10/2/2001	0.3900 U	0.3900 U	0.3900 U	0.3900 U	0.3900 U					
230-B2-0-0.5	'0-0.5	8/30/2001	0.0401 J	0.0800 U	0.0381 J	0.0800 U	0.0800 U					
230-B2-1.5-2	'1.5-2	8/30/2001	0.0559 J	0.0168 J	0.0294 J	0.0720 U	0.0147 J					
230-B3-0-0.5	'0-0.5	8/30/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
230-B3-1.5-2	'1.5-2	8/30/2001	0.258	0.0901	0.151	0.0225 J	0.0686 J					
230-B4-0-0.5	'0-0.5	8/30/2001	0.0696 J	0.0202 J	0.0360 J	0.0800 U	0.0800 U					
230-B4-1.5-2	'1.5-2	8/30/2001	0.323	0.0984	0.191	0.0294 J	0.0806					
230-B5-0-0.5	'0-0.5	9/13/2001	0.144	0.0685 J	0.138	0.0800 U	0.0583 J					
230-B5-1.5-2	'1.5-2	9/13/2001	0.165	0.0899	0.128	0.0190 J	0.0526 J					
230-B6 0-0.5	'0-0.5	8/22/2001	0.107	0.0845	0.114	0.0524 J	0.0426 J					
230-B6 1.5-2	'1.5-2	8/22/2001	0.0799	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
230-B7 0-0.5	'0-0.5	8/22/2001	0.0544 J	0.0650 J	0.101	0.0618 J	0.0310 J					
230-B7 1.5-2	'1.5-2	8/22/2001	0.0300 J	0.0188 J	0.0360 J	0.0820 U	0.0153 J					
230-B8 1.5-2	'1.5-2	8/22/2001	0.0804 J	0.0474 J	0.0823 J	0.0273 J	0.0311 J					
230-B9 0-0.5	'0-0.5	8/22/2001	0.0850	0.0249 J	0.0472 J	0.0710 U	0.0160 J					
230-B9 0-0.5	'0-0.5	8/22/2001	0.0252 J	0.0770 U	0.0602 J	0.0964	0.0220 J				0.660 JN	
230-B9 1.5-2	'1.5-2	8/22/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
231-B1-0-0.5	'0-0.5	10/5/2001	0.0393 J	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
231-B10-0-0.5	'0-0.5	9/17/2001	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
231-B11-0-0.5	'0-0.5	9/19/2001	0.0465 J	0.0630 J	0.0710 J	0.142	0.0248 J					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001	0.0354 J	0.0259 J	0.0469 J	0.0850 U	0.0850 U					
231-B12-0-0.5	'0-0.5	9/17/2001	0.0227 J	0.0174 J	0.0428 J	0.0205 J	0.0206 J					
231-B13-0-0.5	'0-0.5	9/19/2001	0.390 U	0.390 U	0.390 U	0.390 U	0.390 U					
231-B13-8-10	'9-10	9/27/2001	0.0289 J	0.0225 J	0.0322 J	0.0770 U	0.0144 J					
231-B14-0-0.5	'0-0.5	9/19/2001	0.0264 J	0.0820 U	0.0328 J	0.0820 U	0.0820 U					
231-B2-0.5-2	'0.5-2	8/22/2001	0.250	0.205	0.311	0.0788	0.126					
231-B2-0-0.5	'0-0.5	8/22/2001	0.0488 J	0.0740 U	0.0872	0.0740 U	0.0285 J					
231-B3-0-0.5	'0-0.5	8/22/2001	0.0609 J	0.0300 J	0.0982	0.0770 U	0.0368 J					
231-B4-0-0.5	'0-0.5	8/30/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
231-B4-6-8	'6-8	9/27/2001	0.0190 J	0.0800 U	0.0276 J	0.0800 U	0.0800 U					
231-B5-0.5-2	'0.5-2	9/19/2001	0.162	0.0833 J	0.149	0.0290 J	0.0627 J					
231-B6-0-0.5	'0-0.5	9/27/2001	0.241	0.0910 U	0.0910 U	0.0910 U	0.0910 U					
231-B6-4-6	'4-6	9/27/2001	0.0640 J	0.0497 J	0.122	0.0337 J	0.0473 J					
231-B7-0-0.5	'0-0.5	9/13/2001	0.225 J	0.410 U	0.410 U	0.410 U	0.410 U					
231-B8-0-0.5	'0-0.5	9/27/2001	0.146 J	0.129 J	0.341 J	0.108 J	0.119 J					
231-B8-8-10	'8-10	9/27/2001	6.50 UJ	6.50 UJ	6.50 UJ	6.50 UJ	6.50 UJ					
231-B9-0.5-2	'0.5-2	9/27/2001	0.0589 J	0.0324 J	0.0655 J	0.0940 U	0.0232 J					
231-B9-0-0.5	'0-0.5	9/27/2001	0.174 J	0.138 J	0.282 J	0.470 UJ	0.153 J					
240-1-0-0.5	'0-0.5	9/26/2001	0.141	0.0870	0.162	0.0810 U	0.0594 J					
240-1-8-10	'8-10	10/1/2001	0.0810 U	0.0810 U	0.0810 U	0.0810 U	0.0810 U					
5K-B1-0-0.5	'0-0.5	10/1/2001	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U					
5K-B2-0-0.5	'0-0.5	8/31/2001	0.0710 UJ	0.0710 UJ	0.0710 UJ	0.0710 UJ	0.0710 UJ					
5K-B2-8-10	'8-10	8/31/2001	0.103	0.0376 J	0.0527 J	0.0820 U	0.0206 J					
5K-B3-0-0.5	'0-0.5	9/26/2001	0.0610 J	0.0460 J	0.0845 J	0.0800 UJ	0.0279 J					
5K-B4-0-0.5	'0-0.5	10/1/2001	0.460 UJ	0.460 UJ	0.460 UJ	0.460 UJ	0.460 UJ					
5K-B4-4-6	'4-6	10/1/2001	0.550 U	0.550 U	0.550 U	0.550 U	0.550 U					
5K-B5-0-0.5	'0-0.5	8/31/2001	0.758	0.288	0.589	0.0780 U	0.232					
5K-B5-4-6	'4-6	9/26/2001	0.231	0.0450 J	0.101	0.0870 U	0.0496 J					
AB-1-0-0.5	'0-0.5	9/4/2001	0.187	0.117	0.304	0.0780 U	0.0948					
AB-2-0.5-2	'0.5-2	9/4/2001	0.0681 J	0.0311 J	0.0784 J	0.0870 UJ	0.0284 J					
AB-2-0-0.5	'0-0.5	9/4/2001	0.0707 J	0.0516 J	0.125	0.0295 J	0.0436 J					
ADN-1-0-0.5	'0-0.5	9/5/2001	0.230	0.316	0.528	0.114	0.181					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001	0.469	0.139	0.222	0.0319 J	0.0865 J					
ADN-2-0-0.5	'0-0.5	9/5/2001	0.0820 U	0.0820 U	0.0378 J	0.0270 J	0.0154 J					0.280 JN
ADN-2-10-11	'10-11	9/27/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
ADS-1-0-.5	'0-0.5	7/17/2001	0.285 J	0.182 J	0.584	0.370 U	0.181 J					
ADS-10-0-0.5	'0-2	7/18/2001	0.203	0.270	0.887	0.491	0.233					
ADS-101-0-1	'0-1	12/5/2006	0.0339 J	0.0204 J	0.0328 J	0.0210 U	0.0290 U					
ADS-101-1-3	'1-3	12/5/2006	0.0180 U	0.0130 U	0.0170 U	0.0210 U	0.0290 U					
ADS-102-0-1.5	'0-2	12/5/2006	0.0478 J	0.0359 J	0.0507 J	0.0387 J	0.0280 U					
ADS-102-7-8	'4-8	12/5/2006	0.0259 J	0.0292 J	0.0235 J	0.0222 J	0.0318 J					
ADS-10-4-6	'4-6	7/18/2001	0.0422 J	0.0242 J	0.0432 J	0.0950 U	0.0196 J					
ADS-11-0-0.5	'0-2	7/18/2001	0.438	0.445	2.05	0.587	0.768					
ADS-12-0.5-2	'0.5-2	7/18/2001	0.0467 J	0.0538 J	0.0826 J	0.0596 J	0.0319 J					
ADS-12-0-0.5	'0-0.5	7/18/2001	0.0498 J	0.0449 J	0.111	0.0395 J	0.0451 J					
ADS-2-0-0.5	'0-0.5	7/18/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
ADS-2-4-6	'4-6	7/18/2001	0.0810 U	0.0810 U	0.0810 U	0.0810 U	0.0810 U					
ADS-3-0-0.5	'0-0.5	7/18/2001	0.0458 J	0.0274 J	0.0603 J	0.0780 UJ	0.0234 J					
ADS-4-0-0.5	'0-2	7/18/2001	0.377	0.375 J	0.529 J	0.254 J	0.236 J					
ADS-4-12-14	'12-14	7/18/2001	0.391	0.145	0.248	0.0745 J	0.101					
ADS-5-0-0.5	'0-0.5	7/18/2001	0.360 UJ	0.360 UJ	0.360 UJ	0.360 UJ	0.360 UJ					
ADS-5-4-6	'4-6	9/27/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
ADS-6-0.5-2	'0.5-2	7/18/2001	0.208	0.118	0.230	0.0660 J	0.0832					
ADS-6-0-0.5	'0-0.5	7/18/2001	0.227 J	0.119 J	0.380 U	0.380 U	0.380 U					
ADS-7-0-.5	'0-0.5	7/17/2001	0.296 J	0.114 J	0.465	0.360 U	0.147 J					
ADS-8-0-0.5	'0-0.5	7/18/2001	0.0369 J	0.0820 U	0.143	0.0450 J	0.0559 J					
ADS-8-4-6	'4-6	7/18/2001	0.0280 J	0.0830 U	0.0884	0.0830 U	0.0322 J					
ADS-9-0-0.5	'0-0.5	7/18/2001	0.0666 J	0.0591 J	0.186	0.0888	0.0579 J					
BLIND DUP	'0-0	8/21/2001	0.210	0.224	0.315	0.136	0.117					
BSL-10-0-1	'0-1	9/21/2001	0.0990 UJ	0.0990 UJ	0.0350 J	0.0990 UJ	0.0990 UJ					
BSL-1-0-1	'0-1	9/20/2001	0.135	0.132	0.205	0.0561 J	0.0790					
BSL-11-0-1	'0-1	9/26/2001	0.0194 J	0.0960 U	0.0409 J	0.0960 U	0.0960 U					
BSL-12-0-1	'0-1	9/26/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
BSL-1-4-6	'4-6	9/20/2001	0.0980 U	0.0980 U	0.0980 U	0.0980 U	0.0980 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001	0.134	0.124	0.162	0.0850 J	0.0749 J					
BSL-3-0-0.5	'0-0.5	9/20/2001	0.0710 U	0.0710 U	0.0710 U	0.0710 U	0.0710 U					
BSL-4-0-1	'0-0.5	9/21/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
BSL-4-4-6	'4-6	9/21/2001	0.140 U	0.140 U	0.140 U	0.140 U	0.140 U					
BSL-5-0-.5	'0-0.5	9/21/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U					
BSL-6-0-1	'0-1	9/26/2001	0.148	0.121	0.160	0.0628 J	0.0651 J					
BSL-6-1-2	'1-2	9/26/2001	0.0324 J	0.0313 J	0.0357 J	0.130 U	0.0193 J					
BSL-7-0-.5	'0-0.5	9/21/2001	0.0980 U	0.0980 U	0.0980 U	0.0980 U	0.0980 U					
BSL-8-0-1	'0-1	9/26/2001	0.0364 J	0.0408 J	0.0554 J	0.120 U	0.0230 J					
BSL-9-.5-2	'0.5-2	9/21/2001	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U					
BSL-9-0-.5	'0-0.5	9/21/2001	0.0840 U	0.0840 U	0.0840 U	0.0840 U	0.0840 U					
BT-B1-0-0.5	'0-0.5	9/18/2001	0.0360 J	0.0284 J	0.0500 J	0.0810 U	0.0157 J					
BT-B2-0.5-2	'0.5-2	9/18/2001	0.0392 J	0.0790 U	0.0391 J	0.0790 U	0.0126 J					
BT-B2-0-0.5	'0-0.5	9/18/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
BT-B3-0-0.5	'0-0.5	9/18/2001	0.390 U	0.390 U	0.390 U	0.390 U	0.390 U					
BT-B4-0.5-2	'0.5-2	8/30/2001	0.0452 J	0.0362 J	0.0470 J	0.0770 UJ	0.0770 UJ					
BT-B4-0-0.5	'0-0.5	8/30/2001	0.340 U	0.340 UJ	0.340 UJ	0.340 UJ	0.340 UJ					
BT-B5-0-.5	'0-0.5	10/2/2001	0.0622 J	0.0420 J	0.0969 J	0.0810 UJ	0.0324 J					
BT-B6-0.5-2	'0.5-2	9/17/2001	0.155	0.136	0.218	0.0415 J	0.0784 J					
BT-B6-0-0.5	'0-0.5	9/17/2001	0.340 U	0.340 U	0.340 U	0.340 U	0.340 U					
CF-1-0-0.5	'0-0.5	8/31/2001	0.0274 J	0.0262 J	0.0485 J	0.0382 J	0.0187 J					
CF-1-2-4	'2-4	8/31/2001	0.298	0.229	0.256	0.158	0.0958					
CF-2-0-0.5	'0-0.5	8/28/2001	0.0931	0.0724 J	0.132	0.0399 J	0.0493 J					
CF-3-0.5-2	'0.5-2	8/28/2001	0.130 U	0.130 U	0.130 U	0.130 U	0.130 U					
CF-3-0-0.5	'0-0.5	8/28/2001	0.165	0.139	0.224	0.0706 J	0.0812 J					
CF-4-0-0.5	'0-0.5	8/28/2001	0.230	0.179	0.308	0.0908	0.106					
CF-5-0-0.5	'0-0.5	8/28/2001	0.0700 U	0.0700 U	0.0700 U	0.0700 U	0.0700 U					
CF-5-4-6	'4-6	8/28/2001	0.0756	0.0726 J	0.116	0.0506 J	0.0451 J					
CF-6-0-0.5	'0-0.5	8/28/2001	0.0948	0.0901	0.144	0.0527 J	0.0601 J					
CF-7-0-0.5	'0-0.5	8/28/2001	0.0847	0.0785	0.122	0.0497 J	0.0417 J					
CF-7-4-6	'4-6	8/28/2001	0.196	0.156 J	0.257 J	0.110 J	0.105 J					
CF-8-0-0.5	'0-0.5	8/28/2001	0.237	0.221	0.308	0.113	0.121					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001	0.0230 J	0.0720 U	0.0720 U	0.0720 U	0.0720 U					
CF-9-0-0.5	'0-0.5	8/31/2001	0.0446 J	0.0282 J	0.0396 J	0.0231 J	0.0152 J					
DC-B12-0-0.5	'0-0.5	10/3/2001	0.225	0.0658 J	0.0760 U	0.0760 U	0.0760 U					
DC-B12-2-4	'2-4	10/3/2001	0.160	0.0709 J	0.102	0.0390 J	0.0437 J					
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.489	0.660	1.22	0.228	0.465					
DC-SS11-0-0.5	'0-0.5	9/17/2001	8.90 J	4.50 J	7.68 J	0.584 J	3.60 J					
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.169 J	0.124 J	0.226 J	0.350 U	0.0898 J					
DC-SS15-0-0.5	'0-0.5	9/17/2001	2.50	1.75	3.57	0.292 J	1.54					
DC-SS17-0-0.5	'0-0.5	9/17/2001	3.14 J	1.43 J	3.52 J	0.210 J	1.31 J					
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.0398 J	0.0740 U	0.0819	0.0740 U	0.0365 J					
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.0421 J	0.0880 U	0.0878 J	0.0880 U	0.0366 J					
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.0600 J	0.0357 J	0.0953	0.0750 U	0.0369 J					
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.0306 J	0.0760 U	0.0684 J	0.0760 U	0.0336 J					
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.193	0.101	0.187	0.0760 U	0.0703 J					
DSP-1-0-0.5	'0-0.5	10/3/2001	0.0347 J	0.0299 J	0.0565 J	0.0365 J	0.0261 J					
DSP-1-4-6	'4-6	11/19/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.0820 U					
DSP-2-0-0.5	'0-0.5	9/4/2001	0.0433 J	0.0474 J	0.0869 UJ	0.0258 J	0.0332 J					
DSP-3-0-0.5	'0-0.5	9/4/2001	0.380 U	0.380 UJ	0.380 UJ	0.380 UJ	0.380 UJ					
DSP-3-2-4	'2-4	9/4/2001	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
DSP-4-0-0.5	'0-0.5	9/4/2001	0.0224 J	0.0217 J	0.0554 J	0.0850 UJ	0.0257 J					
DSP-4-4-6	'4-6	9/26/2001	0.0273 J	0.0860 U	0.0262 J	0.0860 U	0.0860 U					
DUP-01-010824	'0-0.5	8/24/2001	0.279	0.210	0.286	0.0568 J	0.131					
DUP-01-010831	'2-4	8/31/2001	0.239	0.141	0.241	0.133	0.100					
DUP-01-010904	'0-0.5	9/4/2001	0.140 J	0.117 J	0.142 J	0.370 U	0.370 U					
DUP-01-010905	'8-10	9/5/2001	1.07	0.323	0.525	0.0639 J	0.205					
DUP-01-010906	'0-8	9/6/2001	18.6	3.90	6.62	0.885	2.96					
DUP-01-010913	'0-0.5	9/13/2001	0.380 U	0.380 U	0.166 J	0.380 U	0.0558 J					
DUP-01-010917	'0-0.5	9/17/2001	0.171	0.0910	0.161	0.0770 U	0.0626 J					
DUP-01-010926	'1-2	9/26/2001	0.170	0.0745 J	0.100 J	0.0306 J	0.0438 J					
DUP-01-010927	'4-6	9/27/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
DUP-01-021001	'0-0	10/2/2001	0.172	0.126	0.262	0.0583 J	0.0968					
DUP-01-08 2201	'1.5-2	8/22/2001	0.0439 J	0.0259 J	0.0415 J	0.0800 U	0.0208 J					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001	0.113	0.0963	0.258	0.0947	0.0879					
DUP-01-170402	'0-0	4/17/2002	0.319	0.0947 J	0.146 J	0.180 U	0.0553 J					
DUP-02-010913	'0-0.5	9/13/2001	0.191 J	0.430 U	0.430 U	0.430 U	0.430 U					
DUP-02-010921	'0-1	9/21/2001	0.0910 U	0.0910 U	0.0377 J	0.0910 U	0.0910 U					
DUP-02-010926	'4-6	9/26/2001	0.0887 J	0.0900 UJ	0.0645 J	0.0900 UJ	0.0900 UJ					
DUP060807	'0-0	6/8/2007	0.0364 J	0.0502 J	0.0781	0.0501 J	0.0583 J					
DUP-1-010828	'0-0.5	8/28/2001	0.0534 J	0.0603 J	0.0838	0.0377 J	0.0301 J					
DUP-1-010921	'0-0.5	9/21/2001	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U					
DUP110606	'15-17	11/6/2006	0.0200 U	0.0150 U	0.0190 U	0.0230 U	0.0320 U					
DUP112006	'16-18	11/20/2006	0.0320 U	0.0230 U	0.0300 U	0.0360 U	0.0490 U					
DUP112106	'10-12	11/21/2006	0.0330 U	0.0240 U	0.0310 U	0.0370 U	0.0520 U					
DUP-120506	'0-4	12/5/2006	0.106 J	0.0929 J	0.137 J	0.122 J	0.0770 U					
DUP-120606	'0-4	12/6/2006	0.199	0.106	0.330	0.0888	0.222					
DUPE071801	'0-0.5	7/18/2001	0.0740 U	0.0740 U	0.0384 J	0.0740 U	0.0168 J					
EC-1	'0-1	8/21/2001	0.0351 J	0.0365 J	0.0558 J	0.0194 J	0.0240 J					
EC-2	'0-1	8/21/2001	0.302	0.325	0.439	0.151	0.173					
EC-3	'0-1	8/21/2001	0.0989	0.105 J	0.171 J	0.0665 J	0.0684 J					
EC-4	'0-1	8/21/2001	0.0906	0.109 J	0.156 J	0.0808 J	0.0602 J					
EC-5	'0-1	8/21/2001	0.0740 U	0.0740 U	0.0229 J	0.0740 U	0.0740 U					
EC-6	'0-1	8/21/2001	0.0820 U	0.0820 U	0.0249 J	0.0820 U	0.0820 U					
EC-7	'0-1	8/21/2001	0.117	0.125 J	0.174 J	0.104 J	0.0707 J					
EC-8	'0-1	8/21/2001	0.116	0.119 J	0.207 J	0.0913 J	0.0764 J					
EC-9	'0-1	8/21/2001	0.432	0.420 J	0.640 J	0.252 J	0.250 J					
ESR-1-0-1	'0-0.5	9/4/2001	0.0710 U	0.0710 U	0.0710 U	0.0710 U	0.0710 U					
ESR-1-4-6	'4-6	9/4/2001	0.0251 J	0.0308 J	0.0830 UJ	0.0830 UJ	0.0830 UJ					
HB-101A	'17-17	3/5/2007	0.0190 U	0.0130 U	0.0180 U	0.0210 U	0.0290 U					
HB-102A	'0-0	3/13/2007	0.0290 U	0.0210 U	0.0270 U	0.0330 U	0.0450 U					
HB-102B	'0-0	3/14/2007	0.0483 J	0.0140 U	0.0190 U	0.0220 U	0.0310 U					
HB-102C	'0-0	3/14/2007	0.0180 U	0.0130 U	0.0170 U	0.0210 U	0.0280 U					
H-B-103A	'17-17	2/20/2007	0.0876 J	0.0254 J	0.0240 U	0.0290 U	0.0400 U					
H-B-104A	'17-17	2/23/2007	0.0200 U	0.0140 U	0.0190 U	0.0230 U	0.0310 U					
H-B-104B	'17-17	2/23/2007	0.0190 U	0.0130 U	0.0180 U	0.0210 U	0.0290 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007	2.11	0.823	0.870	0.244	0.706					
H-B-104D	'17-17	2/27/2007	0.0190 U	0.0140 U	0.0180 U	0.0210 U	0.0290 U					
H-B-104E	'17-17	2/27/2007	0.112	0.0395 J	0.0415 J	0.0220 U	0.0378 J					
H-B-105C	'17-17	2/8/2007	0.0180 U	0.0130 U	0.0170 U	0.0210 U	0.0280 U					
H-B-105D	'17-17	2/8/2007	0.0200 U	0.0140 U	0.0190 U	0.0220 U	0.0310 U					
H-B-105E	'0-0	2/8/2007	0.0200 U	0.0140 U	0.0180 U	0.0220 U	0.0300 U					
HB-1A	'6.75-6.75	4/18/2002	0.145	0.0199 J	0.0379 J	0.120 U	0.120 U					
HB-3A	'5.25-5.25	4/17/2002	0.507	0.140 J	0.219	0.0525 J	0.0876 J					
HB-3B	'4.5-4.5	4/17/2002	0.0780 U	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
HB-3C	'4.5-4.5	4/18/2002	0.0770 U	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
HB-3D	'4.5-4.5	4/18/2002	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
HB-4A	'5.33-5.33	4/19/2002	0.0507 J	0.0292 J	0.0507 J	0.0138 J	0.0230 J					
HB-5A	'3-3	4/22/2002	0.587	0.198	0.381	0.0683 J	0.128					
HB-7A	'5-5	4/19/2002	0.160	0.0947	0.129	0.0459 J	0.0551 J					
HB-8A	'3-3	4/23/2002	0.0985	0.134	0.163	0.201	0.0781 J					
HB-8B	'4.83-4.83	4/23/2002	0.0403 J	0.0790 U	0.0790 U	0.0790 U	0.0790 U					
HB-8C	'5.5-5.5	4/23/2002	0.116	0.0608 J	0.0904	0.0333 J	0.0437 J					
HB-9A	'4.75-4.75	4/24/2002	2.00	0.638	1.00	0.204	0.382					
HF-B1-0-0.5	'0-0.5	9/10/2001	0.395	0.529	1.10	0.382	0.458					
HF-B1-8-10	'8-10	9/10/2001	0.849	0.982	2.01	0.571	0.815					
HF-B2-0-0.5	'0-0.5	9/4/2001	0.153	0.151	0.224	0.0661 J	0.0927					
HF-B2-4-6	'4-6	9/4/2001	0.554	0.476	0.626	0.166	0.272					
HF-B3-0-.5	'0-0.5	10/2/2001	2.36	1.95	3.66	1.06	1.54					
HF-B3-8-10	'8-10	10/2/2001	0.0751 J	0.0508 J	0.173	0.0284 J	0.0693 J					
IB-1-0-2	'0-2	4/8/2002	0.104	0.0314 J	0.0590 J	0.0780 U	0.0335 J					
IB-1-4-6	'4-6	4/8/2002	0.180	0.0748 J	0.109	0.0780 U	0.0443 J					
IB-2-12-14	'12-14	4/8/2002	5.41	1.69	2.38	0.460	1.06					
IB-2-4-6	'4-6	4/8/2002	0.510	0.147	0.241	0.0474 J	0.104					
IB-3-4-6	'4-6	4/8/2002	0.101	0.0577 J	0.0850 U	0.0850 U	0.0850 U					
IB-3-8-10	'8-10	4/8/2002	0.333	0.142	0.241	0.0890 U	0.0857 J					
LB-101-0-1	'0-1	12/6/2006	0.0170 U	0.0120 U	0.0160 U	0.0200 U	0.0270 U					
LB-101-1-3	'1-3	12/6/2006	0.0507 J	0.0470 J	0.0614 J	0.134	0.0508 J					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006	0.0180 U	0.0130 U	0.0170 U	0.0200 U	0.0280 U					
LB-102-1-3	'3-7	12/6/2006	0.0180 U	0.0130 U	0.0170 U	0.0200 U	0.0280 U					
LB-103-0-1	'0-1	12/6/2006	0.0204 J	0.0215 J	0.0466 J	0.0433 J	0.0270 U					
LB-103-5-7	'5-7	12/6/2006	0.0271 J	0.0244 J	0.0277 J	0.0220 U	0.0429 J					
LHP-101-0-1	'0-1	12/4/2006	0.0890 U	0.0640 UJ	0.0840 UJ	0.100 UJ	0.140 UJ					
LHP-101-5-8	'4-8	12/4/2006	0.0640 U	0.0460 U	0.0600 U	0.0720 U	0.0990 U					
LHP-102-0-1	'0-1	12/5/2006	0.0296 J	0.0130 U	0.0448 J	0.0283 J	0.0280 U					
LHP-102-7-9	'7-9	12/5/2006	0.403	0.512	0.258	0.394	0.210					
LHP-103-0-1	'0-1	12/5/2006	0.367 J	0.381	0.375	0.367 J	0.251 J					
LHP-103-1-3	'1-3	12/5/2006	0.0415 J	0.0346 J	0.0401 J	0.0300 J	0.0333 J					
LHP-104-0-1	'0-1	12/5/2006	0.0199 J	0.0134 J	0.0173 J	0.0190 U	0.0260 U					
LHP-104-7-9	'4-8	12/5/2006	0.0305 J	0.0272 J	0.0237 J	0.0268 J	0.0290 U					
LHP-105-0-1	'0-1	12/5/2006	0.137 J	0.121 J	0.144 J	0.161 J	0.130 U					
LHP-105-1-3	'1-3	12/5/2006	0.0714	0.154	0.438	0.275	0.136					
LHP-106-0-1	'0-1	12/4/2006	0.157 J	0.148 J	0.213 J	0.243 J	0.141 J					
LHP-106-1-3	'1-3	12/4/2006	0.100 U	0.0720 U	0.0950 U	0.110 U	0.160 U					
LHP-107-0-1	'0-1	12/5/2006	0.399	0.602	0.882	0.549	0.417					
LHP-107-5-7	'4-8	12/5/2006	0.0235 J	0.0272 J	0.0196 J	0.0276 J	0.0290 U					
LHP-108-0-1	'0-1	12/6/2006	0.933 J	0.891 J	0.902 J	0.577 J	0.818 J					
LHP-108-3-7	'3-7	12/6/2006	0.0190 U	0.0140 U	0.0180 U	0.0220 U	0.0300 U					
LHP-109-0-1	'0-1	12/6/2006	0.102 J	0.123 J	0.127 J	0.121 J	0.106 J					
LHP-109-7-9	'7-9	12/6/2006	0.0566 J	0.0300 J	0.0248 J	0.0250 U	0.0340 U					
LHP-110-0-1	'0-1	12/4/2006	0.899	0.976 J	0.915 UJ	0.498 J	0.700 J					
LHP-111-0-1	'0-1	12/4/2006	0.0476 J	0.0369 J	0.0885	0.0216 J	0.0784					
LHP-112-0-1	'0-1	12/4/2006	0.618 J	0.523 J	0.462 UJ	0.217 J	0.634 J					
LHP-113-0-1	'0-1	12/4/2006	0.0358 J	0.0243 J	0.0725	0.0217 J	0.0633 J					
LHP-114-0-1	'0-1	12/4/2006	0.0421 J	0.0381 J	0.0877	0.0240 J	0.102					
LHP-115-0-1	'0-1	12/4/2006	0.0170 U	0.0120 U	0.0160 U	0.0190 U	0.0260 U					
LHP-116-0-1	'0-1	12/4/2006	0.0391 J	0.0307 J	0.0817	0.0214 J	0.0514 J					
LHP-117-0-1	'0-1	12/4/2006	0.0755 J	0.0502 J	0.117	0.0210 U	0.0919					
LHP-118-0-1	'0-1	12/4/2006	0.0950 U	0.0680 U	0.0900 U	0.110 U	0.150 U					
LHP-119-0-1	'0-1	12/4/2006	0.0255 J	0.0193 J	0.0281 J	0.0210 U	0.0326 J					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006	0.0790 J	0.0749 J	0.151	0.0362 J	0.115					
LHP-121-0-1	'0-1	12/6/2006	0.0180 U	0.0130 U	0.0170 U	0.0210 U	0.0280 U					
LHP-122-0-1	'0-1	12/6/2006	0.0985 J	0.100 J	0.0809 J	0.0620 J	0.138 J					
LHP-123-0-1	'0-1	12/4/2006	0.189 J	0.187 J	0.184 UJ	0.0830 J	0.210 J					
LHP-124-.5-2	'0.5-2	10/27/2006	0.546	0.504	0.520	0.249	0.388					
LHP-124-10-12	'10-12	10/31/2006	0.0300 U	0.0210 U	0.0280 U	0.0340 U	0.0460 U					
LHP-124-2-4	'2-4	10/27/2006	0.172	0.238	0.170	0.191	0.109					
LHP-124-28-30	'28-30	10/31/2006	0.0220 U	0.0160 U	0.0210 U	0.0250 U	0.0350 U					
LHP-125-.5-2	'0.5-2	10/27/2006	0.680	0.643	0.649	0.319	0.480					
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0210 U	0.0150 U	0.0200 U	0.0230 U	0.0320 U					
LHP-125-12-14	'12-14	11/1/2006	0.0190 U	0.0130 U	0.0180 U	0.0210 U	0.0290 U					
LHP-125-4-6	'4-6	10/27/2006	0.0180 U	0.0130 U	0.0170 U	0.0200 U	0.0280 U					
LHP-126-10.5-12	'10.5-12	11/1/2006	0.0770 UJ	0.0560 UJ	0.0730 UJ	0.0880 UJ	0.120 UJ					
LHP-126-14-16	'14-16	11/1/2006	0.0190 U	0.0140 U	0.0180 U	0.0220 U	0.0300 U					
LHP-126-2-4	'2-4	10/26/2006	0.0339 J	0.0130 UJ	0.0523 J	0.0239 J	0.0369 J					
LHP-126-8-10	'9-10	10/26/2006	0.0386 J	0.0347 J	0.0377 J	0.0240 J	0.0310 UJ					
LHP-127-0-1	'0-1	12/6/2006	0.167 J	0.134 J	0.158 J	0.0190 U	0.170 J					
LHP-127-3-5	'3-5	12/6/2006	0.0170 U	0.0213 J	0.0234 J	0.0190 U	0.0260 U					
LHP-128-0-1	'0-4	12/6/2006	0.207	0.0951	0.326	0.0720	0.208					
LHP-128-7-8	'17-17	12/6/2006	0.0569 J	0.0465 J	0.0371 J	0.0252 J	0.0568 J					
LP-1-0-0.5	'0-0.5	8/27/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
LP-10-0.5-2	'0.5-2	8/27/2001	0.0840 U	0.0840 U	0.0840 U	0.0840 U	0.0840 U					
LP-10-0-0.5	'0-0.5	8/27/2001	0.0922	0.0590 J	0.129	0.0422 J	0.0427 J					
LP-101-11-13	'11-13	11/2/2006	0.0300 U	0.0220 U	0.0280 U	0.0340 U	0.0470 U					
LP-101-14-16	'14-16	11/2/2006	0.0260 U	0.0190 U	0.0250 U	0.0300 U	0.0410 U					
LP-101-26-28	'26-28	11/2/2006	0.0190 U	0.0130 U	0.0180 U	0.0210 U	0.0290 U					
LP-101-50-52	'50-52	11/2/2006	0.0180 U	0.0130 U	0.0170 U	0.0210 U	0.0290 U					
LP-11-0-0.5	'0-0.5	8/27/2001	0.118	0.0737 J	0.156	0.0589 J	0.0518 J					
LP-12-0-0.5	'0-0.5	8/27/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
LP-12-4-6	'4-6	8/27/2001	0.0730 U	0.0730 U	0.0730 U	0.0730 U	0.0730 U					
LP-13-0-0.5	'0-0.5	8/24/2001	0.0845	0.109	0.220	0.148	0.0768 J					0.260 JN
LP-14-0.5-2	'0.5-2	8/24/2001	0.0879	0.0791	0.156	0.0463 J	0.0528 J					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001	0.401	0.368 J	0.312 J	0.162 J	0.0929 J					
LP-15-0-0.5	'0-0.5	8/24/2001	0.0642 J	0.0668 J	0.144	0.0562 J	0.0538 J					
LP-16-0.5-2	'0.5-2	8/27/2001	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U					
LP-16-0-0.5	'0-0.5	8/27/2001	0.102	0.0650 J	0.167	0.0405 J	0.0607 J					
LP-2-0.5-2	'0.5-2	8/28/2001	0.320	0.0806	0.0760 U	0.0760 U	0.0760 U					
LP-2-0-0.5	'0-0.5	8/28/2001	0.0750 UJ	0.0750 UJ	0.0750 UJ	0.0750 UJ	0.0750 UJ			0.490 JN		
LP-3-0-0.5	'0-0.5	8/27/2001	0.290	0.186	0.250	0.102	0.102					
LP-4 .5-2	'0.5-2	8/21/2001	0.284 UJ	0.157 UJ	0.394 UJ	0.0845 UJ	0.149 UJ					
LP-4 0-.5	'0-0.5	8/21/2001	0.0672 J	0.0725 J	0.124	0.0705 J	0.0454 J					
LP-5-0-0.5	'0-0.5	8/27/2001	0.0860	0.0764	0.150	0.0619 J	0.0510 J					
LP-6-0-0.5	'0-0.5	8/27/2001	0.0523 J	0.0317 J	0.0927	0.0730 U	0.0301 J					
LP-6-4-6	'4-6	8/27/2001	0.0740 UJ	0.0740 UJ	0.0740 UJ	0.0740 UJ	0.0740 UJ					
LP-7-0-0.5	'0-0.5	8/24/2001	0.402	0.424	0.695	0.156	0.278					
LP-8-0-0.5	'0-0.5	8/24/2001	0.0888	0.0782 J	0.113	0.0309 J	0.0489 J					
LP-8-10-12	'10-12	8/24/2001	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U					
LP-9-0-0.5	'0-0.5	8/24/2001	0.135 J	0.145 J	0.190 J	0.0930 J	0.370 U					
MW-11D-12-14	'12-14	12/14/2006	0.0290 U	0.0210 U	0.0270 U	0.0320 U	0.0450 U					
MW-11D-14-16	'14-16	12/14/2006	0.0190 U	0.0140 U	0.0180 U	0.0220 U	0.0300 U					
MW-11D-16-18	'16-18	12/14/2006	0.0190 U	0.0140 U	0.0180 U	0.0220 U	0.0300 U					
MW-14D-13-15	'13-15	11/14/2006	0.0210 U	0.0150 U	0.0190 U	0.0230 U	0.0320 U					
MW-14D-17-19	'17-19	11/14/2006	0.0190 U	0.0140 U	0.0180 U	0.0220 U	0.0300 U					
MW-16D-13-15	'13-15	11/17/2006	0.0180 U	0.0130 U	0.0170 U	0.0210 U	0.0290 U			0.150 JN		
MW-16D-17-19	'17-19	11/20/2006	0.0190 U	0.0140 U	0.0180 U	0.0210 U	0.0290 U					
MW-17D-15-17	'15-17	11/10/2006	0.274	0.179	0.167	0.0811 J	0.138					
MW-17D-17-19	'17-19	11/10/2006	0.0190 U	0.0140 U	0.0180 U	0.0210 U	0.0290 U					
MW-18D-13-15	'13-15	11/13/2006	0.0200 U	0.0150 U	0.0190 U	0.0230 U	0.0320 U					
MW-18D-17-19	'17-19	11/13/2006	0.0180 U	0.0130 U	0.0170 U	0.0210 U	0.0290 U					
MW-20D-12-14	'12-14	11/9/2006	0.0200 U	0.0170 J	0.0190 U	0.0220 U	0.0310 U					
MW-20D-32-34	'32-32.9	11/10/2006	0.0180 U	0.0130 U	0.0170 U	0.0210 U	0.0290 U					
MW-20D-36-38	'36-38	11/10/2006	0.0190 U	0.0140 U	0.0180 U	0.0210 U	0.0290 U					
MW-21D-13-15	'13-13.7	11/16/2006	0.0200 U	0.0140 U	0.0190 U	0.0230 U	0.0310 U					
MW-21D-15-17	'15-17	11/16/2006	0.0190 U	0.0140 U	0.0180 U	0.0210 U	0.0300 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006	0.0200 U	0.0140 U	0.0190 U	0.0230 U	0.0310 U					
MW-23D-37-39	'37-37.9	11/15/2006	0.0180 U	0.0130 U	0.0170 U	0.0210 U	0.0290 U					
MW-25D-10-12	'10-12	11/21/2006	0.0340 U	0.0240 U	0.0320 U	0.0380 U	0.0530 U					
MW-25D-33-35	'33-35	12/18/2006	0.0200 U	0.0150 U	0.0190 U	0.0230 U	0.0320 U					
MW-26S-8-10	'8-10	10/26/2006	0.162 J	0.0761 J	0.104 J	0.0265 J	0.0777 J					
MW-6D-0-2	'0-2	11/8/2006	0.0180 U	0.0130 U	0.0170 U	0.0210 U	0.0280 U					
MW-6D-12-14	'12-14	11/8/2006	0.0420 U	0.0310 U	0.0400 U	0.0480 U	0.0660 U					
MW-6D-16-18	'16-18	11/20/2006	0.0300 U	0.0210 U	0.0280 U	0.0340 U	0.0460 U					
MW-6D-30-32	'30-32	11/21/2006	0.0190 U	0.0140 U	0.0180 U	0.0210 U	0.0300 U					
PCA-1-0-.5	'0-2	7/17/2001	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U					
PCA-1-4-6	'4-6	7/17/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
PCA-2-0-.5	'0-0.5	7/17/2001	0.0730 U	0.0730 U	0.0730 U	0.0730 U	0.0730 U					
PCA-3-0-0.5	'0-0.5	9/13/2001	0.184	0.174	0.437	0.111 J	0.140 J					
PCA-3-4-6	'4-6	9/13/2001	0.114	0.112	0.127	0.131	0.0533 J					
PCA-4-0-0.5	'0-0.5	9/13/2001	0.380 U	0.380 U	0.380 U	0.380 U	0.380 U					
PCA-4-4-6	'4-6	9/26/2001	0.0830 U	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
PCA-5-0.5-2	'0.5-2	9/7/2001	0.0514 J	0.0325 J	0.0411 J	0.0219 J	0.0193 J					
PCA-5-0-0.5	'0-0.5	9/7/2001	0.0386 J	0.0238 J	0.0363 J	0.0850 U	0.0850 U					
PCA-6-0-0.5	'0-0.5	9/7/2001	0.324 J	0.222 J	0.354 J	0.0849 J	0.170 J					
RR-1 0-0.5	'0-0.5	8/22/2001	4.49	1.27	2.39	0.612	0.664					
RR-1 14-16	'14-16	8/22/2001	0.123	0.0820 U	0.0820 U	0.0820 U	0.0820 U					
RR-10 0-.5	'0-0.5	10/12/2001	0.170	0.159	0.559	0.0976	0.196					
RR-11 0-.5	'0-0.5	10/12/2001	0.0867	0.0788 J	0.208	0.0772 J	0.0710 J					
RR-12 0-.5	'0-0.5	10/12/2001	0.0784	0.0792	0.226	0.0728 J	0.0745 J					
RR-2-0-0.5	'0-0.5	9/13/2001	0.420 U	0.420 U	0.420 U	0.420 U	0.420 U					
RR-2-8-10	'8-10	9/13/2001	0.0958 J	0.300	0.147	0.0984 J	0.0459 J					
RR-3-0-0.5	'0-0.5	9/13/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 U	0.0720 U					
RR-4-0-0.5	'0-0.5	9/10/2001	0.680 J	1.27 J	2.15 J	1.21 J	0.732 J					
RR-4-6-8	'6-8	9/13/2001	0.0648 J	0.0650 J	0.116	0.0882	0.0377 J					
RR-5-0-0.5	'0-0.5	9/10/2001	0.178	0.150	0.552	0.154	0.189					
RR-6-0-0.5	'0-0.5	9/10/2001	0.363	0.558	1.33	0.416	0.490					
RR-6-8-10	'8-10	9/10/2001	0.0691 J	0.0814	0.198	0.0793	0.0799					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001	0.0339 J	0.0760 UJ	0.0760 UJ	0.0760 UJ	0.0760 UJ					
RR-8-0-0.5	'0-0.5	9/26/2001	0.288	0.215	0.971	0.167	0.306					
RR-8-6-8	'6-8	9/26/2001	0.140 U	0.140 U	0.140 U	0.140 U	0.140 U					
RR-9 0-.5	'0-0.5	10/12/2001	0.0653 J	0.108	0.293	0.113	0.103					
SC-1	'0-1	8/21/2001	0.0900 U	0.114 J	0.0900 UJ	0.0827 J	0.0900 UJ					
SC-2	'0-1	8/22/2001	0.201	0.186	0.284	0.0552 J	0.112					
SC-3	'0-1	8/22/2001	0.0875	0.108	0.168	0.0420 J	0.0691 J					
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.0798	0.0770 UJ	0.0862 J	0.0770 UJ	0.0241 J					
SILO-B1-6-8	'6-8	9/6/2001	6.74	1.79	3.00	0.520	1.20					
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U					
SILO-B3-0-0.5	'0-0.5	9/6/2001	0.123 J	0.410 UJ	0.410 UJ	0.410 UJ	0.410 UJ					
SILO-B3-6-8	'6-8	9/6/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
SILO-B4-0-0.5	'0-0.5	9/6/2001	0.420 U	0.420 UJ	0.420 UJ	0.420 UJ	0.420 UJ					
SPR-1-0-0.5	'0-0.5	9/5/2001	0.236 J	0.380 U	0.380 U	0.380 U	0.380 U					
SPR-1-8-10	'8-10	9/5/2001	0.0342 J	0.0328 J	0.0506 J	0.0219 J	0.0198 J					
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.104	0.0735 J	0.194	0.0601 J	0.0841					
SPR-2A-8-10	'8-10	7/19/2001	0.0880 U	0.0880 U	0.0880 U	0.0880 U	0.0880 U					
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.127	0.113	0.186	0.110	0.0778					
SPR-2B-10-12	'10-12	7/19/2001	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U					
SPR-3 0-.5	'0-0.5	8/21/2001	0.0565 J	0.0509 J	0.107	0.0237 J	0.0436 J					
SPR-3 4-6	'4-6	8/21/2001	0.0278 J	0.0860 U	0.0308 J	0.0860 U	0.0860 U					
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.490	0.496	0.783	0.234	0.339					
SPR-4A-8-10	'8-10	7/19/2001	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U					
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U		0.340 JN			
SPR-4B-4-6	'4-6	8/23/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.118 J	0.370 U	0.150 J	0.370 U	0.370 U					
SPR-4C-4-6	'4-6	8/23/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
SPR-5-0-0.5	'0-0.5	9/5/2001	76.3	72.3	91.3	26.4	38.9	5.60 JN				
SPR-5-2-4	'2-4	9/5/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
SPR-6-0.5-2	'0.5-2	9/13/2001	0.772	0.674	0.846	0.191	0.338					
SPR-6-0-0.5	'0-0.5	9/13/2001	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.0680 U					
SR-1-0-.5	'0-0.5	7/17/2001	0.100	0.0957	0.321	0.139	0.0909					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001	0.156	0.0625 J	0.223	0.0680 U	0.0849					
ST-1-0-0.5	'0-0.5	9/5/2001	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U					
ST-2-0-0.5	'0-0.5	9/5/2001	0.869	0.871	1.18	0.529	0.400					
ST-3-0-0.5	'0-0.5	9/4/2001	0.0203 J	0.0790 U	0.0228 J	0.0790 U	0.0790 U					
ST-3-4-6	'4-6	9/4/2001	2.20	1.76	1.73	0.602	0.740					
TES-1-0-1	'0-1	12/5/2006	0.144 J	0.186 J	0.516	1.06	0.186 J					
TES-2-0-1	'0-1	12/4/2006	0.200 U	0.140 UJ	0.190 UJ	0.220 UJ	0.310 UJ					
TES-3-0-1	'0-1	12/4/2006	0.173 J	0.0710 U	0.0930 U	0.110 U	0.150 U					
TES-4-0-1	'0-1	12/5/2006	0.0789	0.0609 J	0.104 J	0.285 J	0.0649 J					
TLN-1 .5-2	'0.5-2	8/20/2001	0.0877	0.0769 J	0.168	0.0542 J	0.0628 J					
TLN-1 0-.5	'0-0.5	8/20/2001	0.0642 J	0.0670 J	0.142	0.0682 J	0.0588 J					
TLN-2-0-0.5	'0-0.5	7/19/2001	0.0740 U	0.0740 U	0.0378 J	0.0740 U	0.0149 J					
TLN-3-0-.5	'0-0.5	7/17/2001	14.5	10.5	16.5	1.33	5.21					
TLN-3-2-4	'2-4	7/17/2001	0.101	0.0366 J	0.0919	0.0780 U	0.0211 J					
TLN-4 0-.5	'0-0.5	8/20/2001	0.0690 U	0.0690 U	0.0392 J	0.0690 U	0.0185 J					
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.0322 J	0.0411 J	0.0621 J	0.0730 U	0.0279 J					
TLN-5 .5-2	'0.5-2	8/20/2001	0.258	0.285	0.397	0.0806	0.172					
TLN-5 0-.5	'0-0.5	8/20/2001	0.370	0.397	0.505	0.185	0.238					
TLN-5-4-6	'4-6	8/30/2001	0.178	0.181	0.213	0.0988	0.0844					
TLN-6 0-.5	'0-0.5	8/20/2001	0.487	0.519	0.674	0.189	0.256					
TLS-10 0-.5	'0-0.5	8/21/2001	0.0780 U	0.0780 U	0.0282 J	0.0780 U	0.0780 U					
TLS-10 8-10	'8-10	8/21/2001	0.0473 J	0.0970 U	0.0337 J	0.0970 U	0.0970 U					
TLS-1-0-0.5	'0-0.5	9/5/2001	0.390 U	0.390 U	0.390 U	0.390 U	0.390 U					
TLS-11-0-0.5	'0-0.5	9/7/2001	0.878 J	0.0638 J	0.206 J	0.0535 J	0.0750 U					0.720 JN
TLS-2-0-0.5	'0-0.5	9/7/2001	0.370 UJ	0.370 UJ	0.370 UJ	0.370 UJ	0.370 UJ					
TLS-2-6-8	'6-8	9/7/2001	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U					
TLS-3 0-.5	'0-0.5	8/21/2001	0.0562 J	0.0486 J	0.124	0.0331 J	0.0463 J					
TLS-4-0-0.5	'0-0.5	9/7/2001	0.0924	0.0650 J	0.174	0.0512 J	0.0785					
TLS-4-8-10	'8-10	9/7/2001	0.110 U	0.110 U	0.110 U	0.110 U	0.110 U					
TLS-5 0-0.5	'0-0.5	8/21/2001	0.0710 U	0.0710 U	0.0710 U	0.0710 U	0.0710 U					
TLS-5-8-10	'8-10	9/26/2001	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzo_b_naphtho_2, 3-D_furan	Benzofuran	Benzoic Acid	Beta_-Amyrin	Beta-caryophyllene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001	0.0773 J	0.0608 J	0.148 J	0.0397 J	0.0628 J					
TLS-6-3-5	'3-5	9/26/2001	328. J	8.90 UJ	8.90 UJ	8.90 UJ	8.90 UJ					
TLS-7 0-.5	'0-0.5	8/21/2001	0.0714 J	0.114	0.309	0.0869 J	0.100					
TLS-8-0-0.5	'0-0.5	9/7/2001	0.0495 J	0.0500 J	0.106	0.0639 J	0.0466 J					
TLS-8-6-8	'6-8	9/7/2001	0.0896	0.0622 J	0.0849 J	0.0265 J	0.0387 J					
TLS-9 0-.5	'0-0.5	8/21/2001	0.360 UJ	0.360 UJ	0.360 UJ	0.360 UJ	0.360 UJ					
TP-105	'0-0	6/8/2007	0.0607 J	0.0933	0.119	0.0821	0.0909					
TP-105A	'0-0	6/8/2007	0.0160 U	0.0120 U	0.0150 U	0.0180 U	0.0250 U					
TP-106-A	'0-0	6/8/2007	0.0334 J	0.0635 J	0.142	0.0778	0.0755					
TP-106-B	'0-0	6/8/2007	0.0160 U	0.0120 U	0.0150 U	0.0180 U	0.0250 U					
WWT-1-0-0.5	'0-0.5	7/19/2001	0.138 J	0.390 UJ	0.390 UJ	0.390 UJ	0.390 UJ					
WWT-101-15-17	'15-17	11/6/2006	0.0200 U	0.0140 U	0.0190 U	0.0230 U	0.0310 U					
WWT-101-21-23	'21-23	11/6/2006	0.0190 U	0.0140 U	0.0180 U	0.0220 U	0.0300 U					
WWT-1-12-14	'12-14	8/23/2001	5.20 U	5.20 U	5.20 U	5.20 U	5.20 U					
WWT-2-0-0.5	'0-0.5	8/23/2001	0.0577 J	0.0720 UJ	0.0803 J	0.0720 UJ	0.0474 J					
WWT-2-12-14	'12-14	8/23/2001	0.211 J	0.226 J	0.319 J	0.541 J	0.148 J					
WWT-3-0-0.5	'0-0.5	8/23/2001	0.120 J	0.360 U	0.360 U	0.360 U	0.360 U					
WWT-3-12-14	'12-14	8/23/2001	0.152 J	0.0722 J	0.122 J	0.160 U	0.0564 J					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS						1	60	140			
12K-B1-0.5-2	'0.5-2	9/6/2001			0.0850 U	0.0850 U	0.0850 U	0.0850 U			
12K-B1-0-0.5	'0-0.5	9/6/2001			0.0790 U	0.0790 U	0.0790 U	0.5240			
12K-B2-0.5-2	'0.5-2	9/6/2001			0.0790 U	0.0790 U	0.0790 U	0.0790 U			
12K-B2-0-0.5	'0-0.5	9/6/2001			0.0810 U	0.0810 U	0.0810 U	0.3980			
150K-1-0.5-2	'0.5-2	9/10/2001			0.0770 U	0.0770 U	0.0770 U	0.0390 J			
150K-1-0-0.5	'0-0.5	9/10/2001			0.4000 U	0.4000 U	0.4000 U	0.4000 U			
230-B1-0.5	'0-0.5	10/2/2001			0.0790 U	0.0790 U	0.0790 U	0.1010			
230-B10-0-0.5	'0-0.5	8/30/2001			0.0990 U	0.0990 U	0.0990 U	0.5050			
230-B10-1.5-2	'1.5-2	8/30/2001			0.0860 U	0.0860 U	0.0860 U	0.0860 U			
230-B11-0-0.5	'0-0.5	8/30/2001			0.0720 U	0.0720 U	0.0720 U	0.2910			
230-B11-1.5-2	'1.5-2	8/30/2001			0.0720 U	0.0720 U	0.0720 U	0.0483 J			
230-B1-4-6	'4-6	10/2/2001			0.3900 U	0.3900 U	0.3900 U	0.3900 U			
230-B2-0-0.5	'0-0.5	8/30/2001			0.0800 U	0.0800 U	0.0800 U	0.0736 J			
230-B2-1.5-2	'1.5-2	8/30/2001			0.0720 U	0.0720 U	0.0720 U	0.0720 U			
230-B3-0-0.5	'0-0.5	8/30/2001			0.0760 U	0.0760 U	0.0760 U	0.0750 J			
230-B3-1.5-2	'1.5-2	8/30/2001			0.0780 U	0.0780 U	0.0780 U	0.0922			
230-B4-0-0.5	'0-0.5	8/30/2001			0.0800 U	0.0800 U	0.0800 U	0.175			
230-B4-1.5-2	'1.5-2	8/30/2001			0.0760 U	0.0760 U	0.0760 U	0.0760 U			
230-B5-0-0.5	'0-0.5	9/13/2001			0.0800 U	0.0800 U	0.0800 U	0.403			
230-B5-1.5-2	'1.5-2	9/13/2001			0.0750 U	0.0750 U	0.0750 U	0.0665 J			
230-B6 0-0.5	'0-0.5	8/22/2001			0.0760 U	0.0760 U	0.0760 U	0.272			
230-B6 1.5-2	'1.5-2	8/22/2001			0.0760 U	0.0760 U	0.0760 U	0.0760 U			
230-B7 0-0.5	'0-0.5	8/22/2001			0.0810 U	0.0810 U	0.0810 U	0.367			
230-B7 1.5-2	'1.5-2	8/22/2001			0.0820 U	0.0820 U	0.0820 U	0.0820 U			
230-B8 1.5-2	'1.5-2	8/22/2001			0.0830 U	0.0830 U	0.0830 U	0.0467 J			
230-B9 0-0.5	'0-0.5	8/22/2001			0.0710 U	0.0710 U	0.0710 U	0.0710 U			
230-B9 0-0.5	'0-0.5	8/22/2001			0.0770 U	0.0770 U	0.0770 U	0.0599 J			
230-B9 1.5-2	'1.5-2	8/22/2001			0.0750 U	0.0750 U	0.0750 U	0.0750 U			
231-B1-0-0.5	'0-0.5	10/5/2001			0.0750 U	0.0750 U	0.0750 U	0.0750 U			
231-B10-0-0.5	'0-0.5	9/17/2001			0.0830 U	0.0830 U	0.0830 U	0.973			
231-B11-0-0.5	'0-0.5	9/19/2001			0.0940 U	0.0940 U	0.0940 U	0.136			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001			0.0850 U	0.0850 U	0.0850 U	0.103			
231-B12-0-0.5	'0-0.5	9/17/2001			0.0750 U	0.0750 U	0.0750 U	2.94			
231-B13-0-0.5	'0-0.5	9/19/2001			0.390 U	0.390 U	0.390 U	0.534			
231-B13-8-10	'9-10	9/27/2001			0.0770 U	0.0770 U	0.0770 U	0.311			
231-B14-0-0.5	'0-0.5	9/19/2001			0.0820 U	0.0820 U	0.0820 U	0.0521 J			
231-B2-0.5-2	'0.5-2	8/22/2001			0.0740 U	0.0740 U	0.0740 U	0.0740 U			
231-B2-0-0.5	'0-0.5	8/22/2001			0.0740 U	0.0740 U	0.0740 U	0.300			
231-B3-0-0.5	'0-0.5	8/22/2001			0.0770 U	0.0770 U	0.0770 U	1.17			
231-B4-0-0.5	'0-0.5	8/30/2001			0.0770 U	0.0770 U	0.0770 U	0.0822			
231-B4-6-8	'6-8	9/27/2001			0.0800 U	0.0800 U	0.0800 U	0.125			
231-B5-0.5-2	'0.5-2	9/19/2001			0.0840 U	0.0840 U	0.0840 U	0.850			
231-B6-0-0.5	'0-0.5	9/27/2001			0.0910 U	0.0910 U	0.0910 U	0.398			
231-B6-4-6	'4-6	9/27/2001			0.0750 U	0.0750 U	0.0750 U	3.30			
231-B7-0-0.5	'0-0.5	9/13/2001			0.410 U	0.410 U	0.410 U	1.33			
231-B8-0-0.5	'0-0.5	9/27/2001			0.160 UJ	0.160 UJ	0.160 UJ	0.870 J			
231-B8-8-10	'8-10	9/27/2001			6.50 U	6.50 U	6.50 U	6.50 U			
231-B9-0.5-2	'0.5-2	9/27/2001			0.0940 U	0.0940 U	0.0940 U	0.349			
231-B9-0-0.5	'0-0.5	9/27/2001			0.470 U	0.470 U	0.470 U	16.6			
240-1-0-0.5	'0-0.5	9/26/2001			0.0810 U	0.0810 U	0.0810 U	0.266			
240-1-8-10	'8-10	10/1/2001			0.0810 U	0.0810 U	0.0810 U	0.0810 U			
5K-B1-0-0.5	'0-0.5	10/1/2001			0.410 U	0.410 U	0.410 U	0.410 U			
5K-B2-0-0.5	'0-0.5	8/31/2001			0.0710 U	0.0710 U	0.0710 U	0.0710 U			
5K-B2-8-10	'8-10	8/31/2001			0.0820 U	0.0820 U	0.0820 U	0.0820 U			
5K-B3-0-0.5	'0-0.5	9/26/2001			0.0800 U	0.0800 U	0.0800 U	0.177			
5K-B4-0-0.5	'0-0.5	10/1/2001			0.460 U	0.460 U	0.460 U	0.460 U			
5K-B4-4-6	'4-6	10/1/2001			0.550 U	0.550 U	0.550 U	2.59			
5K-B5-0-0.5	'0-0.5	8/31/2001			0.0780 U	0.0780 U	0.0780 U	0.151			
5K-B5-4-6	'4-6	9/26/2001			0.0870 U	0.0870 U	0.0870 U	0.328			
AB-1-0-0.5	'0-0.5	9/4/2001			0.0780 U	0.0780 U	0.0780 U	0.439			
AB-2-0.5-2	'0.5-2	9/4/2001			0.0870 U	0.0870 U	0.0870 U	0.584			
AB-2-0-0.5	'0-0.5	9/4/2001			0.0810 U	0.0810 U	0.0810 U	0.138			
ADN-1-0-0.5	'0-0.5	9/5/2001			0.0760 U	0.0760 U	0.0760 U	0.118			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001			0.0960 U	0.0960 U	0.0960 U	0.0960 U			
ADN-2-0-0.5	'0-0.5	9/5/2001			0.0820 U	0.0820 U	0.0820 U	0.0909			
ADN-2-10-11	'10-11	9/27/2001			0.0800 U	0.0800 U	0.0800 U	0.0800 U			
ADS-1-0-.5	'0-0.5	7/17/2001			0.370 U	0.370 U	0.370 U	0.370 U			
ADS-10-0-0.5	'0-2	7/18/2001			0.0770 U	0.0770 U	0.0770 U	0.896			
ADS-101-0-1	'0-1	12/5/2006			0.0250 U	0.0190 U	0.0290 U	0.0500 U			
ADS-101-1-3	'1-3	12/5/2006			0.0240 U	0.0190 U	0.0280 U	0.0490 U			
ADS-102-0-1.5	'0-2	12/5/2006			0.0240 U	0.0190 U	0.0280 U	0.0480 U			
ADS-102-7-8	'4-8	12/5/2006			0.0260 U	0.0200 U	0.0300 U	0.0520 U			
ADS-10-4-6	'4-6	7/18/2001			0.0950 U	0.0950 U	0.0950 U	0.0950 U			
ADS-11-0-0.5	'0-2	7/18/2001			0.0760 U	0.0760 U	0.0760 U	4.11			
ADS-12-0.5-2	'0.5-2	7/18/2001			0.0870 U	0.0870 U	0.0870 U	0.0870 U			
ADS-12-0-0.5	'0-0.5	7/18/2001			0.0850 U	0.0850 U	0.0850 U	0.118			
ADS-2-0-0.5	'0-0.5	7/18/2001			0.0800 U	0.0800 U	0.0800 U	0.0910			
ADS-2-4-6	'4-6	7/18/2001			0.0810 U	0.0810 U	0.0810 U	0.0810 U			
ADS-3-0-0.5	'0-0.5	7/18/2001			0.0780 U	0.0780 U	0.0780 U	0.485			
ADS-4-0-0.5	'0-2	7/18/2001			0.0770 U	0.0770 U	0.0770 U	0.404			
ADS-4-12-14	'12-14	7/18/2001			0.0850 U	0.0850 U	0.0850 U	0.0850 U			
ADS-5-0-0.5	'0-0.5	7/18/2001			0.360 U	0.360 U	0.360 U	0.360 UJ			
ADS-5-4-6	'4-6	9/27/2001			0.0740 U	0.0740 U	0.0740 U	2.13			
ADS-6-0.5-2	'0.5-2	7/18/2001			0.0760 U	0.0760 U	0.0760 U	2.09			
ADS-6-0-0.5	'0-0.5	7/18/2001			0.380 U	0.380 U	0.380 U	2.70			
ADS-7-0-.5	'0-0.5	7/17/2001			0.360 U	0.360 U	0.360 U	0.803			
ADS-8-0-0.5	'0-0.5	7/18/2001			0.0820 U	0.0820 U	0.0820 U	0.0796 J			
ADS-8-4-6	'4-6	7/18/2001			0.0830 U	0.0830 U	0.0830 U	0.0785 J			
ADS-9-0-0.5	'0-0.5	7/18/2001			0.0860 U	0.0860 U	0.0860 U	0.0860 U			
BLIND DUP	'0-0	8/21/2001			0.0710 U	0.0710 U	0.0710 U	0.0484 J			
BSL-10-0-1	'0-1	9/21/2001			0.0990 U	0.0990 U	0.0990 U	0.105			
BSL-1-0-1	'0-1	9/20/2001			0.0790 U	0.0790 U	0.0790 U	0.0831			
BSL-11-0-1	'0-1	9/26/2001			0.0960 U	0.0960 U	0.0960 U	0.138			
BSL-12-0-1	'0-1	9/26/2001			0.0760 U	0.0760 U	0.0760 U	0.0760 U			
BSL-1-4-6	'4-6	9/20/2001			0.0980 U	0.0980 U	0.0980 U	0.0980 U			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001			0.100 U	0.100 U	0.100 U	0.100 U			
BSL-3-0-0.5	'0-0.5	9/20/2001			0.0710 U	0.0710 U	0.0710 U	0.0409 J			
BSL-4-0-1	'0-0.5	9/21/2001			0.0860 U	0.0860 U	0.0860 U	0.0860 U			
BSL-4-4-6	'4-6	9/21/2001			0.140 U	0.140 U	0.140 U	0.140 U			
BSL-5-0-.5	'0-0.5	9/21/2001			0.0820 U	0.0820 U	0.0820 U	0.0820 U			
BSL-6-0-1	'0-1	9/26/2001			0.110 U	0.110 U	0.110 U	0.180			
BSL-6-1-2	'1-2	9/26/2001			0.130 U	0.130 U	0.130 U	0.294			
BSL-7-0-.5	'0-0.5	9/21/2001			0.0980 U	0.0980 U	0.0980 U	0.0980 U			
BSL-8-0-1	'0-1	9/26/2001			0.120 U	0.120 U	0.120 U	0.317			
BSL-9-.5-2	'0.5-2	9/21/2001			0.110 U	0.110 U	0.110 U	0.110 U			
BSL-9-0-.5	'0-0.5	9/21/2001			0.0840 U	0.0840 U	0.0840 U	0.0840 U			
BT-B1-0-0.5	'0-0.5	9/18/2001			0.0810 U	0.0810 U	0.0810 U	0.244		1.60 JN	
BT-B2-0.5-2	'0.5-2	9/18/2001			0.0790 U	0.0790 U	0.0790 U	0.0424 J			
BT-B2-0-0.5	'0-0.5	9/18/2001			0.0860 U	0.0860 U	0.0860 U	0.305			
BT-B3-0-0.5	'0-0.5	9/18/2001			0.390 U	0.390 U	0.390 U	6.12			
BT-B4-0.5-2	'0.5-2	8/30/2001			0.0770 U	0.0770 U	0.0770 U	0.433			
BT-B4-0-0.5	'0-0.5	8/30/2001			0.340 U	0.340 U	0.340 U	0.340 U			
BT-B5-0-.5	'0-0.5	10/2/2001			0.0810 U	0.0810 U	0.0810 U	0.213			
BT-B6-0.5-2	'0.5-2	9/17/2001			0.0880 U	0.0880 U	0.0880 U	0.200			
BT-B6-0-0.5	'0-0.5	9/17/2001			0.340 U	0.340 U	0.340 U	0.293 J			
CF-1-0-0.5	'0-0.5	8/31/2001			0.0740 U	0.0740 U	0.0740 U	0.0740 U			
CF-1-2-4	'2-4	8/31/2001			0.0740 U	0.0740 U	0.0740 U	0.0740 U			
CF-2-0-0.5	'0-0.5	8/28/2001			0.0820 U	0.0820 U	0.0820 U	0.0864			
CF-3-0.5-2	'0.5-2	8/28/2001			0.130 U	0.130 U	0.130 U	0.130 U			
CF-3-0-0.5	'0-0.5	8/28/2001			0.0990 U	0.0990 U	0.0990 U	0.0990 U			
CF-4-0-0.5	'0-0.5	8/28/2001			0.0870 U	0.0870 U	0.0870 U	0.0725 J			
CF-5-0-0.5	'0-0.5	8/28/2001			0.0700 U	0.0700 U	0.0700 U	0.0700 U			
CF-5-4-6	'4-6	8/28/2001			0.0750 U	0.0750 U	0.0750 U	0.0750 U			
CF-6-0-0.5	'0-0.5	8/28/2001			0.0770 U	0.0770 U	0.0770 U	0.0770 U			
CF-7-0-0.5	'0-0.5	8/28/2001			0.0750 U	0.0750 U	0.0750 U	0.0508 J			
CF-7-4-6	'4-6	8/28/2001			0.0700 U	0.0700 U	0.0700 U	0.0700 U			
CF-8-0-0.5	'0-0.5	8/28/2001		0.490 JN	0.0770 U	0.0770 U	0.0770 U	0.208			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001			0.0720 U	0.0720 U	0.0720 U	0.0720 U			
CF-9-0-0.5	'0-0.5	8/31/2001			0.0740 U	0.0740 U	0.0740 U	0.0740 U			
DC-B12-0-0.5	'0-0.5	10/3/2001			0.0760 U	0.0760 U	0.0760 U	0.0760 U			
DC-B12-2-4	'2-4	10/3/2001			0.0730 U	0.0730 U	0.0730 U	0.153			
DC-SS1-0-0.5	'0-0.5	9/18/2001			0.0730 U	0.0730 U	0.0730 U	1.06			
DC-SS11-0-0.5	'0-0.5	9/17/2001			0.370 U	0.370 U	0.370 U	0.472			
DC-SS13-0-0.5	'0-0.5	9/17/2001			0.350 U	0.350 U	0.350 U	0.350 U			
DC-SS15-0-0.5	'0-0.5	9/17/2001			0.410 U	0.410 U	0.410 U	0.494			
DC-SS17-0-0.5	'0-0.5	9/17/2001			0.0850 U	0.0850 U	0.0850 U	0.202			
DC-SS2-0-0.5	'0-0.5	9/17/2001			0.0740 U	0.0740 U	0.0740 U	0.237			
DC-SS3-0-0.5	'0-0.5	9/17/2001			0.0880 U	0.0880 U	0.0880 U	1.30		0.300 JN	
DC-SS6-0-0.5	'0-0.5	9/17/2001			0.0750 U	0.0750 U	0.0750 U	0.146			
DC-SS7-0-0.5	'0-0.5	9/17/2001			0.0760 U	0.0760 U	0.0760 U	0.281			
DC-SS9-0-0.5	'0-0.5	9/17/2001			0.0760 U	0.0760 U	0.0760 U	0.340			
DSP-1-0-0.5	'0-0.5	10/3/2001			0.0820 U	0.0820 U	0.0820 U	0.110			
DSP-1-4-6	'4-6	11/19/2001			0.0820 U	0.0820 U	0.0820 U	0.0456 J			
DSP-2-0-0.5	'0-0.5	9/4/2001			0.0740 U	0.0740 U	0.0740 U	0.179			
DSP-3-0-0.5	'0-0.5	9/4/2001			0.380 U	0.380 U	0.380 U	0.380 U			
DSP-3-2-4	'2-4	9/4/2001			0.0830 U	0.0830 U	0.0830 U	0.0830 U			
DSP-4-0-0.5	'0-0.5	9/4/2001			0.0850 U	0.0850 U	0.0850 U	0.0998			
DSP-4-4-6	'4-6	9/26/2001			0.0860 U	0.0860 U	0.0860 U	0.0615 J			
DUP-01-010824	'0-0.5	8/24/2001	0.160 JN		0.0770 U	0.0770 U	0.0770 U	0.150			0.220 JN
DUP-01-010831	'2-4	8/31/2001			0.0750 U	0.0750 U	0.0750 U	0.0750 U			
DUP-01-010904	'0-0.5	9/4/2001			0.370 U	0.370 U	0.370 U	0.370 U			
DUP-01-010905	'8-10	9/5/2001			0.0840 U	0.0840 U	0.0840 U	0.0840 U			
DUP-01-010906	'0-8	9/6/2001			0.310 U	0.310 U	0.310 U	1.13			
DUP-01-010913	'0-0.5	9/13/2001			0.380 U	0.380 U	0.380 U	0.380 U			
DUP-01-010917	'0-0.5	9/17/2001			0.0770 U	0.0770 U	0.0770 U	0.267			
DUP-01-010926	'1-2	9/26/2001			0.130 U	0.130 U	0.130 U	0.532			
DUP-01-010927	'4-6	9/27/2001			0.0740 U	0.0740 U	0.0740 U	1.73			
DUP-01-021001	'0-0	10/2/2001			0.0750 U	0.0750 U	0.0750 U	0.401			
DUP-01-08 2201	'1.5-2	8/22/2001			0.0800 U	0.0800 U	0.0800 U	0.0800 U			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001			0.0770 U	0.0770 U	0.0770 U	0.0774			
DUP-01-170402	'0-0	4/17/2002			0.180 U	0.180 U	0.180 U	0.180 U			
DUP-02-010913	'0-0.5	9/13/2001			0.430 U	0.430 U	0.430 U	2.29			
DUP-02-010921	'0-1	9/21/2001			0.0910 U	0.0910 U	0.0910 U	0.0910 U			
DUP-02-010926	'4-6	9/26/2001			0.0900 U	0.0900 U	0.0900 U	0.442			
DUP060807	'0-0	6/8/2007			0.0220 U	0.0170 U	0.0260 U	0.147			
DUP-1-010828	'0-0.5	8/28/2001			0.0770 U	0.0770 U	0.0770 U	0.0770 U			
DUP-1-010921	'0-0.5	9/21/2001			0.100 U	0.100 U	0.100 U	0.100 U			
DUP110606	'15-17	11/6/2006			0.0270 U	0.0210 U	0.0310 U	0.0540 U			
DUP112006	'16-18	11/20/2006			0.0420 U	0.0330 U	0.0490 U	0.0840 U			
DUP112106	'10-12	11/21/2006			0.0440 U	0.0340 U	0.0510 U	0.0880 U			
DUP-120506	'0-4	12/5/2006			0.0660 U	0.0510 U	0.0760 U	3.30 J			
DUP-120606	'0-4	12/6/2006			0.0220 U	0.0170 U	0.0260 U	0.215			
DUPE071801	'0-0.5	7/18/2001			0.0740 U	0.0740 U	0.0740 U	0.111			
EC-1	'0-1	8/21/2001			0.0760 U	0.0760 U	0.0760 U	0.0559 J			
EC-2	'0-1	8/21/2001			0.0750 U	0.0750 U	0.0750 U	0.0788			
EC-3	'0-1	8/21/2001			0.0710 U	0.0710 U	0.0710 U	0.0517 J			
EC-4	'0-1	8/21/2001			0.0740 U	0.0740 U	0.0740 U	0.0745			
EC-5	'0-1	8/21/2001			0.0740 U	0.0740 U	0.0740 U	0.0740 U			
EC-6	'0-1	8/21/2001			0.0820 U	0.0820 U	0.0820 U	0.0820 U	0.510 JN		
EC-7	'0-1	8/21/2001			0.0800 U	0.0800 U	0.0800 U	0.0959			
EC-8	'0-1	8/21/2001			0.0740 U	0.0740 U	0.0740 U	0.119			
EC-9	'0-1	8/21/2001			0.0870 U	0.0870 U	0.0870 U	1.70			
ESR-1-0-1	'0-0.5	9/4/2001			0.0710 U	0.0710 U	0.0710 U	0.0710 U			
ESR-1-4-6	'4-6	9/4/2001			0.0830 U	0.0830 U	0.0830 U	0.0430 J			
HB-101A	'17-17	3/5/2007			0.0250 U	0.0190 U	0.0290 U	0.0490 U			
HB-102A	'0-0	3/13/2007			0.0390 U	0.0300 U	0.0450 U	0.0770 U			
HB-102B	'0-0	3/14/2007			0.0260 U	0.0200 U	0.0310 U	1.55			
HB-102C	'0-0	3/14/2007			0.0240 U	0.0190 U	0.0280 U	0.118			
H-B-103A	'17-17	2/20/2007			0.0340 U	0.0260 U	0.0400 U	0.0726 J			
H-B-104A	'17-17	2/23/2007			0.0270 U	0.0210 U	0.0310 U	0.0533 J			
H-B-104B	'17-17	2/23/2007			0.0250 U	0.0190 U	0.0290 U	0.0490 U			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007			0.0270 U	0.0210 U	0.0320 U	0.0540 U			
H-B-104D	'17-17	2/27/2007			0.0250 U	0.0190 U	0.0290 U	0.0500 U			
H-B-104E	'17-17	2/27/2007			0.0250 U	0.0200 U	0.0300 U	0.0510 U			
H-B-105C	'17-17	2/8/2007			0.0240 U	0.0190 U	0.0280 U	0.0480 U			
H-B-105D	'17-17	2/8/2007			0.0260 U	0.0200 U	0.0310 U	0.0520 U			
H-B-105E	'0-0	2/8/2007			0.0260 U	0.0200 U	0.0300 U	0.0520 U			
HB-1A	'6.75-6.75	4/18/2002			0.120 U	0.120 U	0.120 U	0.120 U			
HB-3A	'5.25-5.25	4/17/2002			0.210 U	0.210 U	0.210 U	0.123 J			
HB-3B	'4.5-4.5	4/17/2002			0.0780 U	0.0780 U	0.0780 U	0.0780 U			
HB-3C	'4.5-4.5	4/18/2002			0.0770 U	0.0770 U	0.0770 U	0.0770 U			
HB-3D	'4.5-4.5	4/18/2002			0.0800 U	0.0800 U	0.0800 U	0.0800 U			
HB-4A	'5.33-5.33	4/19/2002			0.0780 U	0.0780 U	0.0780 U	0.0780 U			
HB-5A	'3-3	4/22/2002			0.0830 U	0.0830 U	0.0830 U	0.0830 U			
HB-7A	'5-5	4/19/2002			0.0830 U	0.0830 U	0.0830 U	0.0830 U			
HB-8A	'3-3	4/23/2002			0.0800 U	0.0800 U	0.0800 U	0.0800 U			
HB-8B	'4.83-4.83	4/23/2002			0.0790 U	0.0790 U	0.0790 U	0.0790 U			
HB-8C	'5.5-5.5	4/23/2002			0.0820 U	0.0820 U	0.0820 U	0.165			
HB-9A	'4.75-4.75	4/24/2002			0.0830 U	0.0830 U	0.0830 U	0.140			
HF-B1-0-0.5	'0-0.5	9/10/2001			0.0800 U	0.0800 U	0.0800 U	0.0698 J			
HF-B1-8-10	'8-10	9/10/2001			0.0930 U	0.0930 U	0.0930 U	0.449			
HF-B2-0-0.5	'0-0.5	9/4/2001			0.0740 U	0.0740 U	0.0740 U	0.0378 J			
HF-B2-4-6	'4-6	9/4/2001			0.0740 U	0.0740 U	0.0740 U	0.0704 J			
HF-B3-0-.5	'0-0.5	10/2/2001			0.0740 U	0.0740 U	0.0740 U	0.353			
HF-B3-8-10	'8-10	10/2/2001			0.0760 U	0.0760 U	0.0760 U	0.0619 J			
IB-1-0-2	'0-2	4/8/2002			0.0780 U	0.0780 U	0.0780 U	0.0780 U			
IB-1-4-6	'4-6	4/8/2002			0.0780 U	0.0780 U	0.0780 U	0.0411 J			
IB-2-12-14	'12-14	4/8/2002			0.0840 U	0.0840 U	0.0840 U	0.0840 U			
IB-2-4-6	'4-6	4/8/2002			0.0780 U	0.0780 U	0.0780 U	0.219			
IB-3-4-6	'4-6	4/8/2002			0.0850 U	0.0850 U	0.0850 U	0.165			
IB-3-8-10	'8-10	4/8/2002			0.0890 U	0.0890 U	0.0890 U	2.40			
LB-101-0-1	'0-1	12/6/2006			0.0230 U	0.0180 U	0.0270 U	0.0460 U			
LB-101-1-3	'1-3	12/6/2006			0.0220 U	0.0170 U	0.0260 U	0.0440 U			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006			0.0240 U	0.0180 U	0.0280 U	0.0470 U			
LB-102-1-3	'3-7	12/6/2006			0.0240 U	0.0180 U	0.0270 U	0.293			
LB-103-0-1	'0-1	12/6/2006			0.0230 U	0.0180 U	0.0270 U	0.0460 U			
LB-103-5-7	'5-7	12/6/2006			0.0260 U	0.0200 U	0.0310 U	0.0520 U			
LHP-101-0-1	'0-1	12/4/2006			0.120 U	0.0910 U	0.140 U	0.230 UJ			
LHP-101-5-8	'4-8	12/4/2006			0.0850 U	0.0660 U	0.0990 U	0.170 U			
LHP-102-0-1	'0-1	12/5/2006			0.0240 U	0.0190 U	0.0280 U	0.0480 U			
LHP-102-7-9	'7-9	12/5/2006			0.0300 U	0.0230 U	0.0350 U	0.0590 U			
LHP-103-0-1	'0-1	12/5/2006			0.120 U	0.0930 U	0.140 U	0.240 U			
LHP-103-1-3	'1-3	12/5/2006			0.0260 U	0.0200 U	0.0300 U	0.0520 U			
LHP-104-0-1	'0-1	12/5/2006			0.0220 U	0.0170 U	0.0260 U	0.0440 U			
LHP-104-7-9	'4-8	12/5/2006			0.0250 U	0.0190 U	0.0290 U	0.0500 U			
LHP-105-0-1	'0-1	12/5/2006			0.110 U	0.0870 U	0.130 U	0.360 J			
LHP-105-1-3	'1-3	12/5/2006			0.0230 U	0.0170 U	0.0260 U	0.0450 U			
LHP-106-0-1	'0-1	12/4/2006			0.110 U	0.0850 U	0.130 U	0.322 J			
LHP-106-1-3	'1-3	12/4/2006			0.130 U	0.100 U	0.160 U	0.270 U			
LHP-107-0-1	'0-1	12/5/2006			0.0230 U	0.0180 U	0.0270 U	0.0460 U			
LHP-107-5-7	'4-8	12/5/2006			0.0250 U	0.0190 U	0.0290 U	0.0490 U			
LHP-108-0-1	'0-1	12/6/2006			0.0240 U	0.0190 U	0.0280 U	0.432 J			
LHP-108-3-7	'3-7	12/6/2006			0.0260 U	0.0200 U	0.0300 U	0.0520 U			
LHP-109-0-1	'0-1	12/6/2006			0.0250 U	0.0190 U	0.0290 U	2.22 J			
LHP-109-7-9	'7-9	12/6/2006			0.0290 U	0.0230 U	0.0340 U	0.0590 U			
LHP-110-0-1	'0-1	12/4/2006			0.240 U	0.190 U	0.280 U	0.490 UJ			
LHP-111-0-1	'0-1	12/4/2006			0.0240 U	0.0190 U	0.0280 U	0.0480 U			
LHP-112-0-1	'0-1	12/4/2006			0.0240 U	0.0190 U	0.0280 U	0.0480 UJ			
LHP-113-0-1	'0-1	12/4/2006			0.0230 U	0.0180 U	0.0260 U	0.183			
LHP-114-0-1	'0-1	12/4/2006			0.0230 U	0.0180 U	0.0270 U	0.0894			
LHP-115-0-1	'0-1	12/4/2006			0.0220 U	0.0170 U	0.0260 U	0.0440 U			
LHP-116-0-1	'0-1	12/4/2006			0.0240 U	0.0190 U	0.0280 U	0.0480 U			
LHP-117-0-1	'0-1	12/4/2006			0.0250 U	0.0190 U	0.0290 U	0.0554 J			
LHP-118-0-1	'0-1	12/4/2006			0.130 U	0.0980 U	0.150 U	0.250 U			
LHP-119-0-1	'0-1	12/4/2006			0.0250 U	0.0190 U	0.0290 U	0.0490 U			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006			0.0280 U	0.0210 U	0.0320 U	0.0867			
LHP-121-0-1	'0-1	12/6/2006			0.0240 U	0.0190 U	0.0280 U	0.0480 U			
LHP-122-0-1	'0-1	12/6/2006			0.0230 U	0.0180 U	0.0270 U	0.306 J			
LHP-123-0-1	'0-1	12/4/2006			0.0250 U	0.0190 U	0.0290 U	0.264 J			
LHP-124-.5-2	'0.5-2	10/27/2006			0.0250 U	0.0190 U	0.0290 U	0.493			
LHP-124-10-12	'10-12	10/31/2006			0.0400 U	0.0310 U	0.0460 U	0.106 J			
LHP-124-2-4	'2-4	10/27/2006			0.0250 U	0.0190 U	0.0290 U	0.274			
LHP-124-28-30	'28-30	10/31/2006			0.0300 U	0.0230 U	0.0350 U	0.111			
LHP-125-.5-2	'0.5-2	10/27/2006			0.0240 U	0.0190 U	0.0280 U	0.341			
LHP-125-10.5-12	'10.5-12	11/1/2006			0.0280 U	0.0210 U	0.0320 U	0.0550 U			
LHP-125-12-14	'12-14	11/1/2006			0.0250 U	0.0190 U	0.0290 U	0.0490 U			
LHP-125-4-6	'4-6	10/27/2006			0.0240 U	0.0180 U	0.0280 U	0.157			
LHP-126-10.5-12	'10.5-12	11/1/2006			0.100 UJ	0.0800 UJ	0.120 UJ	0.670 J			
LHP-126-14-16	'14-16	11/1/2006			0.0260 U	0.0200 U	0.0300 U	0.168			
LHP-126-2-4	'2-4	10/26/2006			0.0240 U	0.0180 U	0.0280 U	0.135 J			
LHP-126-8-10	'9-10	10/26/2006			0.0260 U	0.0200 U	0.0310 U	0.493 J			
LHP-127-0-1	'0-1	12/6/2006			0.0230 U	0.0180 U	0.0260 U	0.0450 UJ			
LHP-127-3-5	'3-5	12/6/2006			0.0230 U	0.0170 U	0.0260 U	0.0450 U			
LHP-128-0-1	'0-4	12/6/2006			0.0220 U	0.0170 U	0.0260 U	0.227			
LHP-128-7-8	'17-17	12/6/2006			0.0290 U	0.0230 U	0.0340 U	0.0735 J			
LP-1-0-0.5	'0-0.5	8/27/2001			0.0750 U	0.0750 U	0.0750 U	0.0429 J			
LP-10-0.5-2	'0.5-2	8/27/2001			0.0840 U	0.0840 U	0.0840 U	0.204			
LP-10-0-0.5	'0-0.5	8/27/2001			0.0760 U	0.0760 U	0.0760 U	0.374			
LP-101-11-13	'11-13	11/2/2006			0.0400 U	0.0310 U	0.0460 U	0.127			
LP-101-14-16	'14-16	11/2/2006			0.0350 U	0.0270 U	0.0400 U	0.0690 U			
LP-101-26-28	'26-28	11/2/2006			0.0250 U	0.0190 U	0.0290 U	0.0500 U			
LP-101-50-52	'50-52	11/2/2006			0.0240 U	0.0190 U	0.0280 U	0.145			
LP-11-0-0.5	'0-0.5	8/27/2001			0.0840 U	0.0840 U	0.0840 U	0.133			
LP-12-0-0.5	'0-0.5	8/27/2001			0.0740 U	0.0740 U	0.0740 U	0.0565 J			
LP-12-4-6	'4-6	8/27/2001			0.0730 U	0.0730 U	0.0730 U	0.0428 J			
LP-13-0-0.5	'0-0.5	8/24/2001			0.0840 U	0.0840 U	0.0840 U	0.124			
LP-14-0.5-2	'0.5-2	8/24/2001			0.0710 U	0.0710 U	0.0710 U	0.432			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001			0.370 U	0.370 U	0.370 U	0.370 U			
LP-15-0-0.5	'0-0.5	8/24/2001			0.0760 U	0.0760 U	0.0760 U	0.0979			
LP-16-0.5-2	'0.5-2	8/27/2001			0.360 U	0.360 U	0.360 U	0.360 U			
LP-16-0-0.5	'0-0.5	8/27/2001			0.0770 U	0.0770 U	0.0770 U	0.174			
LP-2-0.5-2	'0.5-2	8/28/2001			0.0760 U	0.0760 U	0.0760 U	0.930			
LP-2-0-0.5	'0-0.5	8/28/2001			0.0750 U	0.0750 U	0.0750 U	0.142			
LP-3-0-0.5	'0-0.5	8/27/2001			0.0710 U	0.0710 U	0.0710 U	0.201			
LP-4 .5-2	'0.5-2	8/21/2001			0.0740 U	0.0740 U	0.0740 U	0.428			
LP-4 0-.5	'0-0.5	8/21/2001			0.0800 U	0.0800 U	0.0800 U	0.0566 J			
LP-5-0-0.5	'0-0.5	8/27/2001			0.0750 U	0.0750 U	0.0750 U	0.481			
LP-6-0-0.5	'0-0.5	8/27/2001			0.0730 U	0.0730 U	0.0730 U	0.132			
LP-6-4-6	'4-6	8/27/2001			0.0740 U	0.0740 U	0.0740 U	0.0740 U			
LP-7-0-0.5	'0-0.5	8/24/2001			0.0780 U	0.0780 U	0.0780 U	0.733			
LP-8-0-0.5	'0-0.5	8/24/2001			0.0810 U	0.0810 U	0.0810 U	0.0861			
LP-8-10-12	'10-12	8/24/2001			0.110 U	0.110 U	0.110 U	0.110 U			
LP-9-0-0.5	'0-0.5	8/24/2001			0.370 U	0.370 U	0.370 U	0.370 U			
MW-11D-12-14	'12-14	12/14/2006			0.0380 U	0.0290 U	0.0440 U	0.0760 U			
MW-11D-14-16	'14-16	12/14/2006			0.0260 U	0.0200 U	0.0300 U	0.0510 U			
MW-11D-16-18	'16-18	12/14/2006			0.0250 U	0.0200 U	0.0300 U	0.0510 U			
MW-14D-13-15	'13-15	11/14/2006			0.0280 U	0.0210 U	0.0320 U	0.0550 U			
MW-14D-17-19	'17-19	11/14/2006			0.0250 U	0.0200 U	0.0300 U	0.0968			
MW-16D-13-15	'13-15	11/17/2006			0.0250 U	0.0190 U	0.0290 U	0.0490 U			
MW-16D-17-19	'17-19	11/20/2006			0.0250 U	0.0190 U	0.0290 U	0.0500 U			
MW-17D-15-17	'15-17	11/10/2006			0.0270 U	0.0210 U	0.0320 U	0.0768 J			
MW-17D-17-19	'17-19	11/10/2006			0.0250 U	0.0190 U	0.0290 U	0.0500 U			
MW-18D-13-15	'13-15	11/13/2006			0.0270 U	0.0210 U	0.0310 U	0.0792 J			
MW-18D-17-19	'17-19	11/13/2006			0.0250 U	0.0190 U	0.0290 U	0.0490 U			
MW-20D-12-14	'12-14	11/9/2006			0.0260 U	0.0200 U	0.0300 U	0.0520 U			
MW-20D-32-34	'32-32.9	11/10/2006			0.0250 U	0.0190 U	0.0290 U	0.106			
MW-20D-36-38	'36-38	11/10/2006			0.0250 U	0.0190 U	0.0290 U	0.0500 U			
MW-21D-13-15	'13-13.7	11/16/2006			0.0270 U	0.0210 U	0.0310 U	0.0530 U			
MW-21D-15-17	'15-17	11/16/2006			0.0250 U	0.0200 U	0.0290 U	0.0500 U			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006			0.0270 U	0.0210 U	0.0310 U	0.0596 J			
MW-23D-37-39	'37-37.9	11/15/2006			0.0250 U	0.0190 U	0.0290 U	0.0490 U			
MW-25D-10-12	'10-12	11/21/2006			0.0450 U	0.0350 U	0.0530 U	0.0900 U			
MW-25D-33-35	'33-35	12/18/2006			0.0270 U	0.0210 U	0.0320 U	0.0540 U			
MW-26S-8-10	'8-10	10/26/2006			0.0280 U	0.0220 U	0.0330 U	1.05 J			
MW-6D-0-2	'0-2	11/8/2006			0.0240 U	0.0190 U	0.0280 U	0.198			
MW-6D-12-14	'12-14	11/8/2006			0.0570 U	0.0440 U	0.0660 U	0.110 U			
MW-6D-16-18	'16-18	11/20/2006			0.0400 U	0.0310 U	0.0460 U	0.0790 U			
MW-6D-30-32	'30-32	11/21/2006			0.0250 U	0.0200 U	0.0290 U	0.0500 U			
PCA-1-0-.5	'0-2	7/17/2001			0.360 U	0.360 U	0.360 U	0.360 U			
PCA-1-4-6	'4-6	7/17/2001			0.0800 U	0.0800 U	0.0800 U	0.0413 J			
PCA-2-0-.5	'0-0.5	7/17/2001			0.0730 U	0.0730 U	0.0730 U	0.470			
PCA-3-0-0.5	'0-0.5	9/13/2001			0.160 U	0.160 U	0.160 U	0.245			
PCA-3-4-6	'4-6	9/13/2001			0.0850 U	0.0850 U	0.0850 U	0.0850 U			
PCA-4-0-0.5	'0-0.5	9/13/2001			0.380 U	0.380 U	0.380 U	0.380 U			
PCA-4-4-6	'4-6	9/26/2001			0.0830 U	0.0830 U	0.0830 U	0.0712 J			
PCA-5-0.5-2	'0.5-2	9/7/2001			0.0780 U	0.0780 U	0.0780 U	0.0704 J			
PCA-5-0-0.5	'0-0.5	9/7/2001			0.0850 U	0.0850 U	0.0850 U	0.207			
PCA-6-0-0.5	'0-0.5	9/7/2001			0.0710 U	0.0710 U	0.0710 U	2.18			
RR-1 0-0.5	'0-0.5	8/22/2001			0.0740 U	0.0740 U	0.0740 U	0.0491 J			
RR-1 14-16	'14-16	8/22/2001			0.0820 U	0.0820 U	0.0820 U	0.0820 U			
RR-10 0-.5	'0-0.5	10/12/2001			0.0740 U	0.0740 U	0.0740 U	0.0495 J			
RR-11 0-.5	'0-0.5	10/12/2001			0.0800 U	0.0800 U	0.0800 U	0.0541 J			
RR-12 0-.5	'0-0.5	10/12/2001			0.0780 U	0.0780 U	0.0780 U	0.132			
RR-2-0-0.5	'0-0.5	9/13/2001			0.420 U	0.420 U	0.420 U	0.420 U			
RR-2-8-10	'8-10	9/13/2001			0.0990 U	0.0990 U	0.0990 U	0.0990 U			
RR-3-0-0.5	'0-0.5	9/13/2001			0.0720 U	0.0720 U	0.0720 U	0.153			
RR-4-0-0.5	'0-0.5	9/10/2001			0.0800 U	0.0800 U	0.0800 U	2.78			
RR-4-6-8	'6-8	9/13/2001			0.0770 U	0.0770 U	0.0770 U	0.0991			
RR-5-0-0.5	'0-0.5	9/10/2001			0.0690 U	0.0690 U	0.0690 U	0.175			
RR-6-0-0.5	'0-0.5	9/10/2001			0.0720 U	0.0720 U	0.0720 U	0.133			
RR-6-8-10	'8-10	9/10/2001			0.0760 U	0.0760 U	0.0760 U	0.224			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001			0.0760 U	0.0760 U	0.0760 U	0.287			
RR-8-0-0.5	'0-0.5	9/26/2001			0.0860 U	0.0860 U	0.0860 U	0.104			
RR-8-6-8	'6-8	9/26/2001			0.140 U	0.140 U	0.140 U	0.140 U			
RR-9 0-.5	'0-0.5	10/12/2001			0.0730 U	0.0730 U	0.0730 U	0.230			
SC-1	'0-1	8/21/2001			0.0900 U	0.0900 U	0.0900 U	2.10			
SC-2	'0-1	8/22/2001			0.0700 U	0.0700 U	0.0700 U	0.113			
SC-3	'0-1	8/22/2001			0.0780 U	0.0780 U	0.0780 U	0.0780 U			
SILO-B1-0-0.5	'0-0.5	9/6/2001			0.0770 U	0.0770 U	0.0770 U	0.524			
SILO-B1-6-8	'6-8	9/6/2001			0.300 U	0.300 U	0.300 U	0.300 U			
SILO-B2-0-0.5	'0-0.5	9/6/2001			0.360 U	0.360 U	0.360 U	0.738			
SILO-B3-0-0.5	'0-0.5	9/6/2001			0.410 U	0.410 U	0.410 U	0.410 U			
SILO-B3-6-8	'6-8	9/6/2001			0.0740 U	0.0740 U	0.0740 U	0.0400 J			
SILO-B4-0-0.5	'0-0.5	9/6/2001			0.420 U	0.420 U	0.420 U	0.359 J			
SPR-1-0-0.5	'0-0.5	9/5/2001			0.380 U	0.380 U	0.380 U	0.266 J			
SPR-1-8-10	'8-10	9/5/2001			0.100 U	0.100 U	0.100 U	0.145			
SPR-2A-0-0.5	'0-0.5	7/19/2001			0.0750 U	0.0750 U	0.0750 U	0.233			
SPR-2A-8-10	'8-10	7/19/2001			0.0880 U	0.0880 U	0.0880 U	0.0880 U			
SPR-2B-0-0.5	'0-0.5	7/19/2001			0.0720 U	0.0720 U	0.0720 U	2.12			
SPR-2B-10-12	'10-12	7/19/2001			0.100 U	0.100 U	0.100 U	0.100 U			
SPR-3 0-.5	'0-0.5	8/21/2001			0.0720 U	0.0720 U	0.0720 U	0.734			
SPR-3 4-6	'4-6	8/21/2001			0.0860 U	0.0860 U	0.0860 U	0.0584 J			
SPR-4A-0-0.5	'0-0.5	7/19/2001			0.0810 U	0.0810 U	0.0810 U	1.14			
SPR-4A-8-10	'8-10	7/19/2001			0.110 U	0.110 U	0.110 U	0.110 U			
SPR-4B-0-0.5	'0-0.5	8/22/2001			0.0800 U	0.0800 U	0.0800 U	0.0572 J			
SPR-4B-4-6	'4-6	8/23/2001			0.0800 U	0.0800 U	0.0800 U	0.155			
SPR-4C-0-0.5	'0-0.5	8/23/2001			0.370 U	0.370 U	0.370 U	0.625			
SPR-4C-4-6	'4-6	8/23/2001			0.0860 U	0.0860 U	0.0860 U	0.0619 J			
SPR-5-0-0.5	'0-0.5	9/5/2001			2.10 U	2.10 U	2.10 U	2.26			
SPR-5-2-4	'2-4	9/5/2001			0.0860 U	0.0860 U	0.0860 U	0.191			
SPR-6-0.5-2	'0.5-2	9/13/2001			0.0750 U	0.0750 U	0.0750 U	0.841			
SPR-6-0-0.5	'0-0.5	9/13/2001			0.0680 U	0.0680 U	0.0680 U	0.236			
SR-1-0-.5	'0-0.5	7/17/2001			0.0710 U	0.0710 U	0.0710 U	2.77			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001			0.0680 U	0.0680 U	0.0680 U	0.731			
ST-1-0-0.5	'0-0.5	9/5/2001			0.400 U	0.400 U	0.400 U	1.38			
ST-2-0-0.5	'0-0.5	9/5/2001			0.400 U	0.400 U	0.400 U	0.400 U			
ST-3-0-0.5	'0-0.5	9/4/2001			0.0790 U	0.0790 U	0.0790 U	0.0528 J			
ST-3-4-6	'4-6	9/4/2001			0.100 U	0.100 U	0.100 U	0.100 U			
TES-1-0-1	'0-1	12/5/2006			0.120 U	0.0960 U	0.140 U	0.958			
TES-2-0-1	'0-1	12/4/2006			0.260 U	0.200 U	0.310 U	0.520 UJ			
TES-3-0-1	'0-1	12/4/2006			0.130 U	0.100 U	0.150 U	1.11			
TES-4-0-1	'0-1	12/5/2006			0.0240 U	0.0180 U	0.0280 U	0.0470 U			
TLN-1 .5-2	'0.5-2	8/20/2001			0.0840 U	0.0840 U	0.0840 U	0.249			
TLN-1 0-.5	'0-0.5	8/20/2001			0.0830 U	0.0830 U	0.0830 U	0.354			
TLN-2-0-0.5	'0-0.5	7/19/2001			0.0740 U	0.0740 U	0.0740 U	2.00			
TLN-3-0-.5	'0-0.5	7/17/2001	2.30 JN		0.340 U	0.340 U	0.340 U	1.13			4.00 JN
TLN-3-2-4	'2-4	7/17/2001			0.0780 U	0.0780 U	0.0780 U	0.137			
TLN-4 0-.5	'0-0.5	8/20/2001			0.0690 U	0.0690 U	0.0690 U	0.156			
TLN-4 0-.5 DUP	'0-0.5	8/20/2001			0.0730 U	0.0730 U	0.0730 U	0.146			
TLN-5 .5-2	'0.5-2	8/20/2001			0.0720 U	0.0720 U	0.0720 U	0.0811			
TLN-5 0-.5	'0-0.5	8/20/2001			0.0720 U	0.0720 U	0.0720 U	0.0584 J			
TLN-5-4-6	'4-6	8/30/2001			0.0730 U	0.0730 U	0.0730 U	0.0528 J			
TLN-6 0-.5	'0-0.5	8/20/2001			0.0720 U	0.0720 U	0.0720 U	0.192			
TLS-10 0-.5	'0-0.5	8/21/2001			0.0780 U	0.0780 U	0.0780 U	0.600			
TLS-10 8-10	'8-10	8/21/2001			0.0970 U	0.0970 U	0.0970 U	0.0499 J			
TLS-1-0-0.5	'0-0.5	9/5/2001			0.390 U	0.390 U	0.390 U	0.242 J			
TLS-11-0-0.5	'0-0.5	9/7/2001			0.0750 U	0.0750 U	0.0750 U	0.721			
TLS-2-0-0.5	'0-0.5	9/7/2001			0.370 U	0.370 U	0.370 U	0.616			
TLS-2-6-8	'6-8	9/7/2001			0.120 U	0.120 U	0.120 U	0.305			
TLS-3 0-.5	'0-0.5	8/21/2001			0.0740 U	0.0740 U	0.0740 U	0.659			
TLS-4-0-0.5	'0-0.5	9/7/2001			0.0730 U	0.0730 U	0.0730 U	0.599			
TLS-4-8-10	'8-10	9/7/2001			0.110 U	0.110 U	0.110 U	0.188			
TLS-5 0-0.5	'0-0.5	8/21/2001			0.0710 U	0.0710 U	0.0710 U	0.167			
TLS-5-8-10	'8-10	9/26/2001			0.100 U	0.100 U	0.100 U	0.100 U			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bicyclo_2_2_1_heptan-2-Ol, 1,3,3-Trimeth	Bicyclo_2_2_1_heptan-2-One, 1,7,7-Trimet	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Bis(2-Ethylhexyl)adipate	Bisphenol A	Borneol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001			0.0900 U	0.0900 U	0.0900 U	2.44			
TLS-6-3-5	'3-5	9/26/2001			8.90 U	8.90 U	8.90 U	8.90 U			
TLS-7 0-.5	'0-0.5	8/21/2001			0.0990 U	0.0990 U	0.0990 U	0.295			
TLS-8-0-0.5	'0-0.5	9/7/2001			0.0760 U	0.0760 U	0.0760 U	2.19		0.220 JN	
TLS-8-6-8	'6-8	9/7/2001			0.0870 U	0.0870 U	0.0870 U	0.0870 U			
TLS-9 0-.5	'0-0.5	8/21/2001			0.360 U	0.360 U	0.360 U	0.518			
TP-105	'0-0	6/8/2007			0.0210 U	0.0170 U	0.0250 U	0.0430 U			
TP-105A	'0-0	6/8/2007			0.0210 U	0.0170 U	0.0250 U	0.0430 U			
TP-106-A	'0-0	6/8/2007			0.0220 U	0.0170 U	0.0260 U	0.0440 U			
TP-106-B	'0-0	6/8/2007			0.0220 U	0.0170 U	0.0250 U	0.0430 U			
WWT-1-0-0.5	'0-0.5	7/19/2001			0.390 U	0.390 U	0.390 U	0.390 UJ			
WWT-101-15-17	'15-17	11/6/2006			0.0270 U	0.0210 U	0.0310 U	0.0530 U			
WWT-101-21-23	'21-23	11/6/2006			0.0250 U	0.0200 U	0.0300 U	0.0510 U			
WWT-1-12-14	'12-14	8/23/2001			5.20 U	5.20 U	5.20 U	5.20 U			
WWT-2-0-0.5	'0-0.5	8/23/2001			0.0720 U	0.0720 U	0.0720 U	0.220			
WWT-2-12-14	'12-14	8/23/2001			0.250 U	0.250 U	0.250 U	0.525			
WWT-3-0-0.5	'0-0.5	8/23/2001			0.360 U	0.360 U	0.360 U	4.43			
WWT-3-12-14	'12-14	8/23/2001			0.160 U	0.160 U	0.160 U	0.321			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS					14000		340000	96				
12K-B1-0.5-2	'0.5-2	9/6/2001			0.0850 U			0.0850 U				
12K-B1-0-0.5	'0-0.5	9/6/2001			0.0790 U			0.0790 U				
12K-B2-0.5-2	'0.5-2	9/6/2001			0.0790 U			0.0790 U				
12K-B2-0-0.5	'0-0.5	9/6/2001			0.0810 U			0.0810 U				
150K-1-0.5-2	'0.5-2	9/10/2001			0.0770 U			0.0507 J				
150K-1-0-0.5	'0-0.5	9/10/2001			0.4000 U			0.3350 J				
230-B1-0.5	'0-0.5	10/2/2001			0.0790 U			0.0790 U				
230-B10-0-0.5	'0-0.5	8/30/2001		0.2800 JN	0.0990 U			0.3130				
230-B10-1.5-2	'1.5-2	8/30/2001			0.0860 U			0.0743 J				
230-B11-0-0.5	'0-0.5	8/30/2001			0.0720 U			0.0720 U				
230-B11-1.5-2	'1.5-2	8/30/2001			0.0720 U			0.0720 U				
230-B1-4-6	'4-6	10/2/2001			0.3900 U			0.3900 U				
230-B2-0-0.5	'0-0.5	8/30/2001			0.0800 U			0.0800 U				
230-B2-1.5-2	'1.5-2	8/30/2001			0.0720 U			0.0720 U				
230-B3-0-0.5	'0-0.5	8/30/2001			0.0476 J			0.0760 U				
230-B3-1.5-2	'1.5-2	8/30/2001			0.0780 U			0.256				
230-B4-0-0.5	'0-0.5	8/30/2001			0.0800 U			0.0800 U				
230-B4-1.5-2	'1.5-2	8/30/2001			0.0760 U			0.0760 U				
230-B5-0-0.5	'0-0.5	9/13/2001			0.0800 U			0.0800 U				
230-B5-1.5-2	'1.5-2	9/13/2001			0.0750 U			0.130				
230-B6 0-0.5	'0-0.5	8/22/2001			0.0760 U			0.0760 U			0.640 JN	
230-B6 1.5-2	'1.5-2	8/22/2001			0.0760 U			0.0760 U				
230-B7 0-0.5	'0-0.5	8/22/2001			0.0810 U			0.0810 U			1.40 JN	
230-B7 1.5-2	'1.5-2	8/22/2001			0.0820 U			0.0820 U				
230-B8 1.5-2	'1.5-2	8/22/2001			0.0830 U			0.234				
230-B9 0-0.5	'0-0.5	8/22/2001			0.0710 U			0.0710 U				
230-B9 0-0.5	'0-0.5	8/22/2001			0.0770 U			0.0770 U				
230-B9 1.5-2	'1.5-2	8/22/2001			0.0750 U			0.0750 U				
231-B1-0-0.5	'0-0.5	10/5/2001			0.0750 U			0.0750 U				
231-B10-0-0.5	'0-0.5	9/17/2001			0.0830 U			0.0830 U				
231-B11-0-0.5	'0-0.5	9/19/2001			0.0940 U			0.0940 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001			0.0850 U			0.0850 U				
231-B12-0-0.5	'0-0.5	9/17/2001			0.0750 U			0.0750 U				
231-B13-0-0.5	'0-0.5	9/19/2001			0.390 U			0.390 U				
231-B13-8-10	'9-10	9/27/2001			0.0770 U			0.0770 U				
231-B14-0-0.5	'0-0.5	9/19/2001			0.0820 U			0.0820 U				
231-B2-0.5-2	'0.5-2	8/22/2001			0.0740 U			0.259				
231-B2-0-0.5	'0-0.5	8/22/2001			0.0740 U			0.0776				
231-B3-0-0.5	'0-0.5	8/22/2001			0.0770 U			0.0770 U				
231-B4-0-0.5	'0-0.5	8/30/2001			0.0770 U			0.0770 U				
231-B4-6-8	'6-8	9/27/2001			0.0800 U			0.0264 J				
231-B5-0.5-2	'0.5-2	9/19/2001			0.0840 U			0.0768 J				
231-B6-0-0.5	'0-0.5	9/27/2001			0.0910 U			0.0290 J				
231-B6-4-6	'4-6	9/27/2001			0.638			0.0750 U				
231-B7-0-0.5	'0-0.5	9/13/2001			0.410 U			0.410 U				
231-B8-0-0.5	'0-0.5	9/27/2001			0.354 J			0.160 UJ				
231-B8-8-10	'8-10	9/27/2001			6.50 U			6.50 U				
231-B9-0.5-2	'0.5-2	9/27/2001			0.0940 U			0.0940 U				
231-B9-0-0.5	'0-0.5	9/27/2001			3.57			0.470 U				
240-1-0-0.5	'0-0.5	9/26/2001			0.0810 U			0.0810 U				
240-1-8-10	'8-10	10/1/2001			0.0810 U			0.0810 U				
5K-B1-0-0.5	'0-0.5	10/1/2001			0.410 U			0.410 U				
5K-B2-0-0.5	'0-0.5	8/31/2001			0.0710 U			0.0710 U				
5K-B2-8-10	'8-10	8/31/2001			0.0820 U			0.0626 J				
5K-B3-0-0.5	'0-0.5	9/26/2001			0.0800 U			0.0800 U				
5K-B4-0-0.5	'0-0.5	10/1/2001			0.460 U			0.460 U				
5K-B4-4-6	'4-6	10/1/2001			0.550 U			3.90				
5K-B5-0-0.5	'0-0.5	8/31/2001			0.0780 U			0.116				
5K-B5-4-6	'4-6	9/26/2001			0.0870 U			0.0638 J				
AB-1-0-0.5	'0-0.5	9/4/2001			0.0780 U			0.0374 J				
AB-2-0.5-2	'0.5-2	9/4/2001			0.0870 U			0.0224 J				
AB-2-0-0.5	'0-0.5	9/4/2001			0.0810 U			0.0810 U				
ADN-1-0-0.5	'0-0.5	9/5/2001			0.0760 U			0.0523 J				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001			0.0960 U			0.870				
ADN-2-0-0.5	'0-0.5	9/5/2001			0.0820 U			0.0820 U				
ADN-2-10-11	'10-11	9/27/2001			0.0800 U			0.0800 U				
ADS-1-0-.5	'0-0.5	7/17/2001			0.370 U			0.133 J				
ADS-10-0-0.5	'0-2	7/18/2001			0.0770 U			0.100				
ADS-101-0-1	'0-1	12/5/2006			0.0290 U		0.0370 U	0.0160 U				
ADS-101-1-3	'1-3	12/5/2006			0.0290 U		0.0370 U	0.0150 U				
ADS-102-0-1.5	'0-2	12/5/2006			0.0280 U		0.0360 U	0.0181 J				
ADS-102-7-8	'4-8	12/5/2006			0.0300 U		0.0390 U	0.0160 U				
ADS-10-4-6	'4-6	7/18/2001			0.0950 U			0.0950 U				
ADS-11-0-0.5	'0-2	7/18/2001			0.0760 U			0.273				
ADS-12-0.5-2	'0.5-2	7/18/2001			0.0870 U			0.0870 U				
ADS-12-0-0.5	'0-0.5	7/18/2001			0.0850 U			0.0850 U				
ADS-2-0-0.5	'0-0.5	7/18/2001			0.0800 U			0.0800 U				
ADS-2-4-6	'4-6	7/18/2001			0.0810 U			0.0810 U				
ADS-3-0-0.5	'0-0.5	7/18/2001			0.0780 U			0.0780 U				
ADS-4-0-0.5	'0-2	7/18/2001			0.0770 U			0.0770 U				
ADS-4-12-14	'12-14	7/18/2001			0.0850 U			0.437				
ADS-5-0-0.5	'0-0.5	7/18/2001			0.360 UJ			0.360 U				
ADS-5-4-6	'4-6	9/27/2001			0.0740 U			0.0740 U				
ADS-6-0.5-2	'0.5-2	7/18/2001			0.0760 U			0.0760 U				
ADS-6-0-0.5	'0-0.5	7/18/2001			0.380 U			0.380 U				
ADS-7-0-.5	'0-0.5	7/17/2001			0.360 U			0.360 U				
ADS-8-0-0.5	'0-0.5	7/18/2001			0.0820 U			0.0820 U				
ADS-8-4-6	'4-6	7/18/2001			0.0830 U			0.0830 U				
ADS-9-0-0.5	'0-0.5	7/18/2001			0.0860 U			0.0860 U				
BLIND DUP	'0-0	8/21/2001			0.0710 U			0.0246 J				
BSL-10-0-1	'0-1	9/21/2001			0.0990 U			0.0990 U				
BSL-1-0-1	'0-1	9/20/2001			0.0790 U			0.0790 U				
BSL-11-0-1	'0-1	9/26/2001			0.0960 U			0.0960 U				
BSL-12-0-1	'0-1	9/26/2001			0.0760 U			0.0760 U				
BSL-1-4-6	'4-6	9/20/2001			0.0980 U			0.0980 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001			0.100 U			0.100 U				
BSL-3-0-0.5	'0-0.5	9/20/2001			0.0710 U			0.0710 U				
BSL-4-0-1	'0-0.5	9/21/2001			0.0860 U			0.0860 U				
BSL-4-4-6	'4-6	9/21/2001			0.140 U			0.140 U				
BSL-5-0-.5	'0-0.5	9/21/2001			0.0820 U			0.0820 U				
BSL-6-0-1	'0-1	9/26/2001			0.110 U			0.110 U				
BSL-6-1-2	'1-2	9/26/2001			0.130 U			0.130 U				
BSL-7-0-.5	'0-0.5	9/21/2001			0.0980 U			0.0980 U				
BSL-8-0-1	'0-1	9/26/2001			0.120 U			0.120 U				
BSL-9-.5-2	'0.5-2	9/21/2001			0.110 U			0.110 U				
BSL-9-0-.5	'0-0.5	9/21/2001			0.0840 U			0.0840 U				
BT-B1-0-0.5	'0-0.5	9/18/2001			0.0810 U			0.0810 U				
BT-B2-0.5-2	'0.5-2	9/18/2001			0.0790 U			0.0790 U				
BT-B2-0-0.5	'0-0.5	9/18/2001			0.0860 U			0.241				
BT-B3-0-0.5	'0-0.5	9/18/2001			0.390 U			0.390 U				
BT-B4-0.5-2	'0.5-2	8/30/2001			0.0770 U			0.0320 J				
BT-B4-0-0.5	'0-0.5	8/30/2001			0.340 U			0.340 U				
BT-B5-0-.5	'0-0.5	10/2/2001			0.0810 U			0.0266 J				
BT-B6-0.5-2	'0.5-2	9/17/2001			0.0880 U			0.0880 U				
BT-B6-0-0.5	'0-0.5	9/17/2001			0.340 U			0.340 U				
CF-1-0-0.5	'0-0.5	8/31/2001			0.0740 U			0.0740 U				
CF-1-2-4	'2-4	8/31/2001			0.0740 U			0.0973				
CF-2-0-0.5	'0-0.5	8/28/2001			0.0820 U			0.0820 U				
CF-3-0.5-2	'0.5-2	8/28/2001			0.130 U			0.130 U				
CF-3-0-0.5	'0-0.5	8/28/2001			0.0990 U			0.0990 U				
CF-4-0-0.5	'0-0.5	8/28/2001			0.0870 U			0.0870 U			2.50 JN	
CF-5-0-0.5	'0-0.5	8/28/2001			0.0700 U			0.0700 U				
CF-5-4-6	'4-6	8/28/2001			0.0750 U			0.0750 U				
CF-6-0-0.5	'0-0.5	8/28/2001			0.0770 U			0.0770 U				
CF-7-0-0.5	'0-0.5	8/28/2001			0.0750 U			0.0750 U				
CF-7-4-6	'4-6	8/28/2001			0.0700 U			0.0700 U				
CF-8-0-0.5	'0-0.5	8/28/2001			0.0770 U			0.0600 J				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001			0.0720 U			0.0720 U				
CF-9-0-0.5	'0-0.5	8/31/2001			0.0740 U			0.0740 U				
DC-B12-0-0.5	'0-0.5	10/3/2001			0.0760 U			0.0760 U				
DC-B12-2-4	'2-4	10/3/2001			0.0730 U			0.0730 U				
DC-SS1-0-0.5	'0-0.5	9/18/2001			1.93			0.0730 U				
DC-SS11-0-0.5	'0-0.5	9/17/2001			0.370 U			4.92				
DC-SS13-0-0.5	'0-0.5	9/17/2001			0.350 U			0.350 U				
DC-SS15-0-0.5	'0-0.5	9/17/2001			0.410 U			0.239 J				
DC-SS17-0-0.5	'0-0.5	9/17/2001			0.0850 U			0.335				
DC-SS2-0-0.5	'0-0.5	9/17/2001			0.0857			0.0740 U				
DC-SS3-0-0.5	'0-0.5	9/17/2001			1.67			0.0880 U				
DC-SS6-0-0.5	'0-0.5	9/17/2001			0.0750 U			0.0750 U				
DC-SS7-0-0.5	'0-0.5	9/17/2001			0.0760 U			0.0760 U				
DC-SS9-0-0.5	'0-0.5	9/17/2001			0.0760 U			0.0907				
DSP-1-0-0.5	'0-0.5	10/3/2001			0.0820 U			0.0820 U				
DSP-1-4-6	'4-6	11/19/2001			0.0820 U			0.0820 U				
DSP-2-0-0.5	'0-0.5	9/4/2001			0.0740 U			0.0740 U				
DSP-3-0-0.5	'0-0.5	9/4/2001			0.380 U			0.380 U				
DSP-3-2-4	'2-4	9/4/2001			0.0830 U			0.0830 U				
DSP-4-0-0.5	'0-0.5	9/4/2001			0.0595 J			0.0850 U				
DSP-4-4-6	'4-6	9/26/2001			0.0860 U			0.0860 U				
DUP-01-010824	'0-0.5	8/24/2001			0.0770 U			0.170				
DUP-01-010831	'2-4	8/31/2001			0.0750 U			0.149				
DUP-01-010904	'0-0.5	9/4/2001			0.370 U			0.370 U				
DUP-01-010905	'8-10	9/5/2001			0.0840 U			1.58				
DUP-01-010906	'0-8	9/6/2001			0.310 U			22.9				
DUP-01-010913	'0-0.5	9/13/2001			0.380 U			0.380 U				
DUP-01-010917	'0-0.5	9/17/2001			0.0770 U			0.102				
DUP-01-010926	'1-2	9/26/2001			0.130 U			0.130 U				
DUP-01-010927	'4-6	9/27/2001			0.0740 U			0.0740 U				
DUP-01-021001	'0-0	10/2/2001			0.118			0.0296 J				
DUP-01-08 2201	'1.5-2	8/22/2001			0.0800 U			0.0800 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001			0.0770 U			0.0486 J				
DUP-01-170402	'0-0	4/17/2002			0.180 U			0.302				
DUP-02-010913	'0-0.5	9/13/2001			0.430 U			0.430 U	2.40 JN			
DUP-02-010921	'0-1	9/21/2001			0.0910 U			0.0910 U				
DUP-02-010926	'4-6	9/26/2001			0.0900 U			0.0450 J				
DUP060807	'0-0	6/8/2007			0.0260 U		0.0330 U	0.0140 U				
DUP-1-010828	'0-0.5	8/28/2001			0.0770 U			0.0770 U				
DUP-1-010921	'0-0.5	9/21/2001			0.100 U			0.100 U				
DUP110606	'15-17	11/6/2006			0.0320 U		0.0400 U	0.0170 U				
DUP112006	'16-18	11/20/2006			0.0500 U		0.0630 U	0.0260 U				
DUP112106	'10-12	11/21/2006			0.0520 U		0.0660 U	0.0280 U				
DUP-120506	'0-4	12/5/2006			0.0770 U		0.0980 U	0.0410 U				
DUP-120606	'0-4	12/6/2006			0.0260 U		0.0330 U	0.0140 U				
DUPE071801	'0-0.5	7/18/2001			0.0740 U			0.0740 U				
EC-1	'0-1	8/21/2001			0.0760 U			0.0760 U				
EC-2	'0-1	8/21/2001			0.0750 U			0.0363 J				
EC-3	'0-1	8/21/2001			0.0710 U			0.0710 U				
EC-4	'0-1	8/21/2001			0.0740 U			0.0740 U				
EC-5	'0-1	8/21/2001			0.0740 U			0.0740 U				
EC-6	'0-1	8/21/2001			0.0820 U			0.0820 U			0.580 JN	1.20 JN
EC-7	'0-1	8/21/2001			0.0800 U			0.0800 U				
EC-8	'0-1	8/21/2001			0.0740 U			0.0208 J				
EC-9	'0-1	8/21/2001			0.124			0.0502 J				
ESR-1-0-1	'0-0.5	9/4/2001			0.0710 U			0.0710 U				
ESR-1-4-6	'4-6	9/4/2001			0.0830 U			0.0830 U				
HB-101A	'17-17	3/5/2007			0.0290 U		0.0370 U	0.101				
HB-102A	'0-0	3/13/2007			0.0450 U		0.0580 U	0.0240 U				
HB-102B	'0-0	3/14/2007			0.0310 U		0.0390 U	0.0406 J				
HB-102C	'0-0	3/14/2007			0.0290 U		0.0360 U	0.0150 U				
H-B-103A	'17-17	2/20/2007			0.0400 U		0.0510 U	0.171				
H-B-104A	'17-17	2/23/2007			0.0310 U		0.0400 U	0.0170 U				
H-B-104B	'17-17	2/23/2007			0.0290 U		0.0370 U	0.0160 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007			0.0320 U		0.0410 U	4.70				
H-B-104D	'17-17	2/27/2007			0.0290 U		0.0380 U	0.0160 U				
H-B-104E	'17-17	2/27/2007			0.0300 U		0.0380 U	0.304				
H-B-105C	'17-17	2/8/2007			0.0280 U		0.0360 U	0.0473 J				
H-B-105D	'17-17	2/8/2007			0.0310 U		0.0390 U	0.0170 U				
H-B-105E	'0-0	2/8/2007			0.0310 U		0.0390 U	0.0160 U				
HB-1A	'6.75-6.75	4/18/2002			0.120 U			0.102 J				
HB-3A	'5.25-5.25	4/17/2002			0.210 U			0.488				
HB-3B	'4.5-4.5	4/17/2002			0.0780 U			0.0780 U				
HB-3C	'4.5-4.5	4/18/2002			0.0770 U			0.0770 U				
HB-3D	'4.5-4.5	4/18/2002			0.0800 U			0.0800 U				
HB-4A	'5.33-5.33	4/19/2002			0.0780 U			0.0780 U				
HB-5A	'3-3	4/22/2002			0.0830 U			0.167				
HB-7A	'5-5	4/19/2002			0.0830 U			0.108				
HB-8A	'3-3	4/23/2002			0.0800 U			0.0844				
HB-8B	'4.83-4.83	4/23/2002			0.0790 U			0.0790 U				
HB-8C	'5.5-5.5	4/23/2002			0.0820 U			0.200				
HB-9A	'4.75-4.75	4/24/2002			0.0830 U			1.12				
HF-B1-0-0.5	'0-0.5	9/10/2001			0.0800 U			0.0700 J				
HF-B1-8-10	'8-10	9/10/2001			0.0930 U			0.124				
HF-B2-0-0.5	'0-0.5	9/4/2001			0.0740 U			0.0394 J				
HF-B2-4-6	'4-6	9/4/2001			0.0740 U			0.0815				
HF-B3-0-.5	'0-0.5	10/2/2001			0.0740 U			0.463				
HF-B3-8-10	'8-10	10/2/2001			0.0760 U			0.0663 J				
IB-1-0-2	'0-2	4/8/2002			0.0780 U			0.0639 J				
IB-1-4-6	'4-6	4/8/2002			0.0780 U			0.0780 U				
IB-2-12-14	'12-14	4/8/2002			0.0840 U			5.98				
IB-2-4-6	'4-6	4/8/2002			0.0780 U			0.963				
IB-3-4-6	'4-6	4/8/2002			0.0850 U			0.316				
IB-3-8-10	'8-10	4/8/2002			0.0890 U			0.512				
LB-101-0-1	'0-1	12/6/2006			0.0270 U		0.0340 U	0.0140 U				
LB-101-1-3	'1-3	12/6/2006			0.0260 U		0.0330 U	0.0382 J				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006			0.0280 U		0.0360 U	0.0150 U				
LB-102-1-3	'3-7	12/6/2006			0.0280 U		0.0350 U	0.0150 U				
LB-103-0-1	'0-1	12/6/2006			0.0270 U		0.0340 U	0.0140 U				
LB-103-5-7	'5-7	12/6/2006			0.0310 U		0.0390 U	0.0170 U				
LHP-101-0-1	'0-1	12/4/2006			0.140 U		0.180 U	0.0740 U				
LHP-101-5-8	'4-8	12/4/2006			0.0990 U		0.130 U	0.0530 U				
LHP-102-0-1	'0-1	12/5/2006			0.0280 U		0.0360 U	0.0150 U				
LHP-102-7-9	'7-9	12/5/2006			0.0350 U		0.0450 U	0.0190 U				
LHP-103-0-1	'0-1	12/5/2006			0.255 J		0.180 U	0.0760 U				
LHP-103-1-3	'1-3	12/5/2006			0.0310 U		0.0390 U	0.0160 U				
LHP-104-0-1	'0-1	12/5/2006			0.0260 U		0.0330 U	0.0140 U				
LHP-104-7-9	'4-8	12/5/2006			0.0290 U		0.0380 U	0.0160 U				
LHP-105-0-1	'0-1	12/5/2006			0.130 U		0.170 U	0.0700 U				
LHP-105-1-3	'1-3	12/5/2006			0.0260 U		0.0340 U	0.0140 U				
LHP-106-0-1	'0-1	12/4/2006			0.130 UJ		0.170 U	0.0690 U				
LHP-106-1-3	'1-3	12/4/2006			0.160 U		0.200 U	0.0840 U				
LHP-107-0-1	'0-1	12/5/2006			0.0270 U		0.0350 U	0.0140 U				
LHP-107-5-7	'4-8	12/5/2006			0.0290 U		0.0370 U	0.0150 U				
LHP-108-0-1	'0-1	12/6/2006			0.0280 UJ		0.0360 U	0.0266 J				
LHP-108-3-7	'3-7	12/6/2006			0.0310 U		0.0390 U	0.0160 U				
LHP-109-0-1	'0-1	12/6/2006			0.0290 UJ		0.0370 U	0.0150 U				
LHP-109-7-9	'7-9	12/6/2006			0.0350 U		0.0440 U	0.0249 J				
LHP-110-0-1	'0-1	12/4/2006			0.290 U		0.370 U	0.150 U				
LHP-111-0-1	'0-1	12/4/2006			0.0280 U		0.0360 U	0.0280 J				
LHP-112-0-1	'0-1	12/4/2006			0.0280 UJ		0.0360 U	0.173				
LHP-113-0-1	'0-1	12/4/2006			0.0270 U		0.0340 U	0.0158 J				
LHP-114-0-1	'0-1	12/4/2006			0.0280 U		0.0350 U	0.0150 U				
LHP-115-0-1	'0-1	12/4/2006			0.0260 U		0.0330 U	0.0140 U				
LHP-116-0-1	'0-1	12/4/2006			0.0280 U		0.0360 U	0.0150 U				
LHP-117-0-1	'0-1	12/4/2006			0.0290 U		0.0370 U	0.0160 U				
LHP-118-0-1	'0-1	12/4/2006			0.150 U		0.190 U	0.0790 U				
LHP-119-0-1	'0-1	12/4/2006			0.0290 U		0.0370 U	0.0160 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006			0.0320 U		0.0410 U	0.0170 U				
LHP-121-0-1	'0-1	12/6/2006			0.0280 U		0.0360 U	0.0150 U				
LHP-122-0-1	'0-1	12/6/2006			0.0270 UJ		0.0340 U	0.0140 U				
LHP-123-0-1	'0-1	12/4/2006			0.0627 J		0.0370 U	0.0150 U				
LHP-124-.5-2	'0.5-2	10/27/2006			0.109		0.0370 U	0.0391 J				
LHP-124-10-12	'10-12	10/31/2006			0.0470 U		0.0590 U	0.0250 U				
LHP-124-2-4	'2-4	10/27/2006			0.0300 U		0.0380 U	0.0160 U				
LHP-124-28-30	'28-30	10/31/2006			0.0350 U		0.0450 U	0.0190 U				
LHP-125-.5-2	'0.5-2	10/27/2006			0.0280 U		0.0360 U	0.0364 J				
LHP-125-10.5-12	'10.5-12	11/1/2006			0.0320 U		0.0410 U	0.0170 U				
LHP-125-12-14	'12-14	11/1/2006			0.0290 U		0.0370 U	0.0160 U				
LHP-125-4-6	'4-6	10/27/2006			0.0280 U		0.0360 U	0.0150 U				
LHP-126-10.5-12	'10.5-12	11/1/2006			0.120 UJ		0.150 UJ	0.0650 UJ				
LHP-126-14-16	'14-16	11/1/2006			0.0300 U		0.0380 U	0.0160 U				
LHP-126-2-4	'2-4	10/26/2006			0.0280 UJ		0.0350 U	0.0150 U				
LHP-126-8-10	'9-10	10/26/2006			0.0310 UJ		0.0390 U	0.0170 U				
LHP-127-0-1	'0-1	12/6/2006			0.0270 UJ		0.0340 U	0.0598 J				
LHP-127-3-5	'3-5	12/6/2006			0.0270 U		0.0340 U	0.0140 U				
LHP-128-0-1	'0-4	12/6/2006			0.0260 U		0.0330 U	0.0140 U				
LHP-128-7-8	'17-17	12/6/2006			0.0350 U		0.0440 U	0.0180 U				
LP-1-0-0.5	'0-0.5	8/27/2001			0.0750 U			0.0750 U				
LP-10-0.5-2	'0.5-2	8/27/2001			0.0840 U			0.0840 U				
LP-10-0-0.5	'0-0.5	8/27/2001			0.0760 U			0.0760 U				
LP-101-11-13	'11-13	11/2/2006			0.0470 U		0.0600 U	0.0250 U				
LP-101-14-16	'14-16	11/2/2006			0.0410 U		0.0520 U	0.0220 U				
LP-101-26-28	'26-28	11/2/2006			0.0290 U		0.0370 U	0.0160 U				
LP-101-50-52	'50-52	11/2/2006			0.0290 U		0.0370 U	0.0150 U				
LP-11-0-0.5	'0-0.5	8/27/2001			0.0840 U			0.0840 U				
LP-12-0-0.5	'0-0.5	8/27/2001			0.0549 J			0.0740 U				
LP-12-4-6	'4-6	8/27/2001			0.0730 U			0.0730 U				
LP-13-0-0.5	'0-0.5	8/24/2001			0.0840 U			0.0275 J				
LP-14-0.5-2	'0.5-2	8/24/2001			0.0710 U			0.0710 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001			0.370 U			0.370 U				
LP-15-0-0.5	'0-0.5	8/24/2001			0.0760 U			0.0210 J				
LP-16-0.5-2	'0.5-2	8/27/2001			0.360 U			0.360 U				
LP-16-0-0.5	'0-0.5	8/27/2001			0.0868			0.0770 U				
LP-2-0.5-2	'0.5-2	8/28/2001			0.0760 U			0.0760 U				
LP-2-0-0.5	'0-0.5	8/28/2001			0.0750 U			0.0750 U				
LP-3-0-0.5	'0-0.5	8/27/2001			0.0710 U			0.0710 U				
LP-4 .5-2	'0.5-2	8/21/2001			0.0740 U			0.0387 J				
LP-4 0-.5	'0-0.5	8/21/2001			0.0800 U			0.0800 U				
LP-5-0-0.5	'0-0.5	8/27/2001			0.0750 U			0.0750 U				
LP-6-0-0.5	'0-0.5	8/27/2001			0.0730 U			0.0730 U				
LP-6-4-6	'4-6	8/27/2001			0.0740 U			0.0740 U				
LP-7-0-0.5	'0-0.5	8/24/2001			0.0925			0.0595 J				
LP-8-0-0.5	'0-0.5	8/24/2001			0.0810 U			0.0333 J				
LP-8-10-12	'10-12	8/24/2001			0.110 U			0.110 U			0.230 JN	
LP-9-0-0.5	'0-0.5	8/24/2001			0.370 U			0.370 U				
MW-11D-12-14	'12-14	12/14/2006			0.0450 U		0.0570 U	0.0240 U				
MW-11D-14-16	'14-16	12/14/2006			0.0300 U		0.0380 U	0.0160 U				
MW-11D-16-18	'16-18	12/14/2006			0.0300 U		0.0380 U	0.0160 U				
MW-14D-13-15	'13-15	11/14/2006			0.0320 U		0.0410 U	0.0170 U				
MW-14D-17-19	'17-19	11/14/2006			0.0300 U		0.0380 U	0.0160 U				
MW-16D-13-15	'13-15	11/17/2006			0.0290 U		0.0370 U	0.0150 U				
MW-16D-17-19	'17-19	11/20/2006			0.0290 U		0.0370 U	0.0160 U				
MW-17D-15-17	'15-17	11/10/2006			0.0320 U		0.0410 U	0.0170 U				
MW-17D-17-19	'17-19	11/10/2006			0.0290 U		0.0370 U	0.0160 U				
MW-18D-13-15	'13-15	11/13/2006			0.0320 U		0.0400 U	0.0170 U				
MW-18D-17-19	'17-19	11/13/2006			0.0290 U		0.0370 U	0.0150 U				
MW-20D-12-14	'12-14	11/9/2006			0.0310 U		0.0390 U	0.0160 U				
MW-20D-32-34	'32-32.9	11/10/2006			0.0290 U		0.0370 U	0.0150 U				
MW-20D-36-38	'36-38	11/10/2006			0.0290 U		0.0370 U	0.0160 U				
MW-21D-13-15	'13-13.7	11/16/2006			0.0310 U		0.0400 U	0.0170 U				
MW-21D-15-17	'15-17	11/16/2006			0.0300 U		0.0380 U	0.0160 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006			0.0310 U		0.0400 U	0.0170 U				
MW-23D-37-39	'37-37.9	11/15/2006			0.0290 U		0.0370 U	0.0150 U				
MW-25D-10-12	'10-12	11/21/2006			0.0530 U		0.0680 U	0.0280 U				
MW-25D-33-35	'33-35	12/18/2006			0.0320 U		0.0410 U	0.0170 U				
MW-26S-8-10	'8-10	10/26/2006			0.0330 UJ		0.0420 U	0.290 J				
MW-6D-0-2	'0-2	11/8/2006			0.0290 U		0.0360 U	0.0150 U				
MW-6D-12-14	'12-14	11/8/2006			0.0660 U		0.0850 U	0.0350 U				
MW-6D-16-18	'16-18	11/20/2006			0.0470 U		0.0590 U	0.0250 U				
MW-6D-30-32	'30-32	11/21/2006			0.0300 U		0.0380 U	0.0160 U				
PCA-1-0-.5	'0-2	7/17/2001			0.360 U			0.360 U				
PCA-1-4-6	'4-6	7/17/2001			0.0800 U			0.0800 U				
PCA-2-0-.5	'0-0.5	7/17/2001			0.0730 U			0.0730 U				
PCA-3-0-0.5	'0-0.5	9/13/2001			0.160 U			0.160 U				
PCA-3-4-6	'4-6	9/13/2001			0.0850 U			0.0850 U				
PCA-4-0-0.5	'0-0.5	9/13/2001			0.380 U			0.380 U				
PCA-4-4-6	'4-6	9/26/2001			0.0830 U			0.0830 U				
PCA-5-0.5-2	'0.5-2	9/7/2001			0.0780 U			0.0780 U				
PCA-5-0-0.5	'0-0.5	9/7/2001			0.0850 U			0.0276 J				
PCA-6-0-0.5	'0-0.5	9/7/2001			0.151			0.0253 J				
RR-1 0-0.5	'0-0.5	8/22/2001			0.0740 U			0.199				
RR-1 14-16	'14-16	8/22/2001			0.0820 U			0.507				
RR-10 0-.5	'0-0.5	10/12/2001			0.0740 U			0.0843				
RR-11 0-.5	'0-0.5	10/12/2001			0.0800 U			0.0404 J				
RR-12 0-.5	'0-0.5	10/12/2001			0.0780 U			0.0314 J				
RR-2-0-0.5	'0-0.5	9/13/2001			0.420 U			0.420 U				
RR-2-8-10	'8-10	9/13/2001			0.0990 U			0.0990 U				
RR-3-0-0.5	'0-0.5	9/13/2001			0.0720 U			0.0720 U				
RR-4-0-0.5	'0-0.5	9/10/2001			0.0800 U			0.226				
RR-4-6-8	'6-8	9/13/2001			0.0770 U			0.0770 U				
RR-5-0-0.5	'0-0.5	9/10/2001			0.0690 U			0.161				
RR-6-0-0.5	'0-0.5	9/10/2001			0.0720 U			0.0636 J				
RR-6-8-10	'8-10	9/10/2001			0.0760 U			0.0760 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001			0.0760 U			0.0760 U				
RR-8-0-0.5	'0-0.5	9/26/2001			0.0860 U			0.187				
RR-8-6-8	'6-8	9/26/2001			0.140 U			0.140 U				
RR-9 0-.5	'0-0.5	10/12/2001			0.0730 U			0.0347 J				
SC-1	'0-1	8/21/2001			0.568			0.0900 U		2.80 JN		
SC-2	'0-1	8/22/2001			0.0700 U			0.0700 U				
SC-3	'0-1	8/22/2001			0.0780 U			0.0780 U				
SILO-B1-0-0.5	'0-0.5	9/6/2001			0.0770 U			0.0770 U				
SILO-B1-6-8	'6-8	9/6/2001			0.300 U			10.7				
SILO-B2-0-0.5	'0-0.5	9/6/2001			0.360 U			0.360 U				
SILO-B3-0-0.5	'0-0.5	9/6/2001			0.410 U			0.410 U				
SILO-B3-6-8	'6-8	9/6/2001			0.0740 U			0.0740 U				
SILO-B4-0-0.5	'0-0.5	9/6/2001			0.420 U			0.420 U				
SPR-1-0-0.5	'0-0.5	9/5/2001			0.380 U	4.20 JN		0.380 U				
SPR-1-8-10	'8-10	9/5/2001			0.100 U			0.100 U				
SPR-2A-0-0.5	'0-0.5	7/19/2001			0.0750 U			0.0750 U				
SPR-2A-8-10	'8-10	7/19/2001			0.0880 U			0.0880 U				
SPR-2B-0-0.5	'0-0.5	7/19/2001			0.0720 U			0.0720 U				
SPR-2B-10-12	'10-12	7/19/2001			0.100 U			0.100 U				
SPR-3 0-.5	'0-0.5	8/21/2001			0.0720 U			0.0720 U				
SPR-3 4-6	'4-6	8/21/2001			0.0860 U			0.0860 U				
SPR-4A-0-0.5	'0-0.5	7/19/2001			0.0810 U			0.0432 J				
SPR-4A-8-10	'8-10	7/19/2001			0.110 U			0.110 U				
SPR-4B-0-0.5	'0-0.5	8/22/2001			0.0800 U			0.0800 U				
SPR-4B-4-6	'4-6	8/23/2001	0.250 JN		0.0800 U			0.0800 U				
SPR-4C-0-0.5	'0-0.5	8/23/2001			0.370 U			0.370 U				
SPR-4C-4-6	'4-6	8/23/2001			0.0860 U			0.0860 U				
SPR-5-0-0.5	'0-0.5	9/5/2001			2.10 U			1.29 J				
SPR-5-2-4	'2-4	9/5/2001			0.0860 U			0.0860 U				
SPR-6-0.5-2	'0.5-2	9/13/2001			0.0750 U			0.107				
SPR-6-0-0.5	'0-0.5	9/13/2001			0.0680 U			0.0680 U				
SR-1-0-.5	'0-0.5	7/17/2001			0.110			0.0710 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001			0.956			0.0680 U				
ST-1-0-0.5	'0-0.5	9/5/2001			0.400 U			0.400 U				
ST-2-0-0.5	'0-0.5	9/5/2001			0.400 U			0.400 U				
ST-3-0-0.5	'0-0.5	9/4/2001			0.0790 U			0.0790 U				
ST-3-4-6	'4-6	9/4/2001			0.100 U			0.0441 J				
TES-1-0-1	'0-1	12/5/2006			0.150 U			0.0780 U				
TES-2-0-1	'0-1	12/4/2006			0.310 U		0.390 U	0.170 U				
TES-3-0-1	'0-1	12/4/2006			0.150 U		0.200 U	0.0830 U				
TES-4-0-1	'0-1	12/5/2006			0.0280 U			0.0829				
TLN-1 .5-2	'0.5-2	8/20/2001			0.0840 U			0.0840 U				
TLN-1 0-.5	'0-0.5	8/20/2001			0.0830 U			0.0830 U				
TLN-2-0-0.5	'0-0.5	7/19/2001			0.0740 U			0.0740 U				
TLN-3-0-.5	'0-0.5	7/17/2001			0.340 U			5.62	2.00 JN			
TLN-3-2-4	'2-4	7/17/2001			0.0780 U			0.0622 J				
TLN-4 0-.5	'0-0.5	8/20/2001			0.0690 U			0.0690 U				
TLN-4 0-.5 DUP	'0-0.5	8/20/2001			0.0730 U			0.0730 U				
TLN-5 .5-2	'0.5-2	8/20/2001			0.0720 U			0.0720 U	0.370 JN			
TLN-5 0-.5	'0-0.5	8/20/2001			0.0720 U			0.0480 J				
TLN-5-4-6	'4-6	8/30/2001			0.0610 J			0.0730 U				
TLN-6 0-.5	'0-0.5	8/20/2001			0.0720 U			0.0720 U				
TLS-10 0-.5	'0-0.5	8/21/2001			0.0780 U			0.0780 U				
TLS-10 8-10	'8-10	8/21/2001			0.0970 U			0.0339 J				
TLS-1-0-0.5	'0-0.5	9/5/2001			0.390 U			0.390 U				
TLS-11-0-0.5	'0-0.5	9/7/2001			0.0419 J			0.0449 J				
TLS-2-0-0.5	'0-0.5	9/7/2001			0.370 U			0.370 U				
TLS-2-6-8	'6-8	9/7/2001			0.120 U			0.120 U				
TLS-3 0-.5	'0-0.5	8/21/2001			0.0740 U			0.0740 U				
TLS-4-0-0.5	'0-0.5	9/7/2001			0.0405 J			0.0730 U				
TLS-4-8-10	'8-10	9/7/2001			0.110 U			0.0751 J				
TLS-5 0-0.5	'0-0.5	8/21/2001			0.0710 U			0.0710 U				
TLS-5-8-10	'8-10	9/26/2001			0.100 U			0.100 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Butane, 1,1,3-Trimethoxy-	Butanoic Acid	Butyl Benzyl Phthalate	Camphene	Caprolactam	Carbazole	Cholestane	Cholestanol	Cholesterol	Chondrillasterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001			0.181			0.0217 J				
TLS-6-3-5	'3-5	9/26/2001			8.90 U			8.90 U				
TLS-7 0-.5	'0-0.5	8/21/2001			0.0990 U			0.0990 U				
TLS-8-0-0.5	'0-0.5	9/7/2001			0.103			0.0760 U				
TLS-8-6-8	'6-8	9/7/2001			0.0870 U			0.0870 U				
TLS-9 0-.5	'0-0.5	8/21/2001			0.360 U			0.360 U				
TP-105	'0-0	6/8/2007			0.0250 U		0.0320 U	0.0130 U				
TP-105A	'0-0	6/8/2007			0.0250 U		0.0320 U	0.0130 U				
TP-106-A	'0-0	6/8/2007			0.0260 U		0.0330 U	0.0140 U				
TP-106-B	'0-0	6/8/2007			0.0250 U		0.0320 U	0.0130 U				
WWT-1-0-0.5	'0-0.5	7/19/2001			0.390 UJ			0.390 U				
WWT-101-15-17	'15-17	11/6/2006			0.0310 U		0.0400 U	0.0170 U				
WWT-101-21-23	'21-23	11/6/2006			0.0300 U		0.0380 U	0.0160 U				
WWT-1-12-14	'12-14	8/23/2001			5.20 U			4.31 J				
WWT-2-0-0.5	'0-0.5	8/23/2001			0.0720 U			0.0720 U				
WWT-2-12-14	'12-14	8/23/2001			0.250 U			0.250 U				
WWT-3-0-0.5	'0-0.5	8/23/2001			0.360 U			0.360 U				
WWT-3-12-14	'12-14	8/23/2001			0.160 U			0.0797 J				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			230						0_2		
12K-B1-0.5-2	'0.5-2	9/6/2001	0.0850 U	0.2100 U					0.0850 U	0.0850 U	
12K-B1-0-0.5	'0-0.5	9/6/2001	0.0790 U	0.2000 U					0.0790 UJ	0.0790 U	
12K-B2-0.5-2	'0.5-2	9/6/2001	0.0790 U	0.2000 U					0.0790 U	0.0790 U	
12K-B2-0-0.5	'0-0.5	9/6/2001	0.0518 J	0.2000 U					0.0810 U	0.0810 U	
150K-1-0.5-2	'0.5-2	9/10/2001	0.1310	0.1900 U					0.0770 U	0.0536 J	
150K-1-0-0.5	'0-0.5	9/10/2001	0.2930 J	1.0000 U					0.4000 UJ	0.6100	
230-B1-0.5	'0-0.5	10/2/2001	0.9660	0.2000 U					0.0532 J	0.0373 J	
230-B10-0-0.5	'0-0.5	8/30/2001	0.1730	0.2500 U					0.0990 UJ	0.1160	
230-B10-1.5-2	'1.5-2	8/30/2001	0.3120	0.2100 U					0.0860 U	0.1080	
230-B11-0-0.5	'0-0.5	8/30/2001	0.0623 J	0.1800 U					0.0720 U	0.0720 U	
230-B11-1.5-2	'1.5-2	8/30/2001	0.1990	0.1800 U					0.0720 U	0.0205 J	
230-B1-4-6	'4-6	10/2/2001	0.3900 U	0.9800 U					0.3900 U	0.3900 U	
230-B2-0-0.5	'0-0.5	8/30/2001	0.0272 J	0.2000 U					0.0800 U	0.0800 U	
230-B2-1.5-2	'1.5-2	8/30/2001	0.0582 J	0.1800 U					0.0720 U	0.0720 U	
230-B3-0-0.5	'0-0.5	8/30/2001	0.0760 U	0.190 U					0.0760 U	0.0760 U	
230-B3-1.5-2	'1.5-2	8/30/2001	0.245	0.200 U					0.0780 U	0.149	
230-B4-0-0.5	'0-0.5	8/30/2001	0.0664 J	0.200 U					0.0800 U	0.0564 J	
230-B4-1.5-2	'1.5-2	8/30/2001	0.298	0.190 U					0.0760 U	0.0883	
230-B5-0-0.5	'0-0.5	9/13/2001	0.176	0.200 U					0.0800 U	0.0800 U	
230-B5-1.5-2	'1.5-2	9/13/2001	0.140	0.190 U					0.0750 U	0.136	
230-B6 0-0.5	'0-0.5	8/22/2001	0.0997	0.190 U					0.0760 U	0.0760 U	
230-B6 1.5-2	'1.5-2	8/22/2001	0.0257 J	0.190 U					0.0760 U	0.0760 U	
230-B7 0-0.5	'0-0.5	8/22/2001	0.0851	0.200 U					0.0810 U	0.0810 U	
230-B7 1.5-2	'1.5-2	8/22/2001	0.0407 J	0.200 U					0.0820 U	0.0820 U	
230-B8 1.5-2	'1.5-2	8/22/2001	0.0813 J	0.210 U					0.0830 U	0.533	0.440 JN
230-B9 0-0.5	'0-0.5	8/22/2001	0.0474 J	0.180 U					0.0710 U	0.0710 U	
230-B9 0-0.5	'0-0.5	8/22/2001	0.0273 J	0.190 U					0.0770 U	0.0770 U	
230-B9 1.5-2	'1.5-2	8/22/2001	0.0750 U	0.190 U					0.0750 U	0.0750 U	
231-B1-0-0.5	'0-0.5	10/5/2001	0.0177 J	0.190 U					0.0750 U	0.0750 U	
231-B10-0-0.5	'0-0.5	9/17/2001	0.0830 U	0.210 U					0.0830 U	0.0830 U	
231-B11-0-0.5	'0-0.5	9/19/2001	0.0637 J	0.230 U					0.0940 U	0.0940 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001	0.0407 J	0.210 U					0.0850 U	0.0850 U	
231-B12-0-0.5	'0-0.5	9/17/2001	0.0406 J	0.190 U					0.0750 U	0.0750 U	
231-B13-0-0.5	'0-0.5	9/19/2001	0.390 U	0.960 U					0.390 U	0.390 U	
231-B13-8-10	'9-10	9/27/2001	0.0308 J	0.190 U					0.0770 U	0.0242 J	
231-B14-0-0.5	'0-0.5	9/19/2001	0.0256 J	0.200 U					0.0820 U	0.0820 U	
231-B2-0.5-2	'0.5-2	8/22/2001	0.247	0.180 U					0.0740 U	0.0740 U	
231-B2-0-0.5	'0-0.5	8/22/2001	0.0451 J	0.180 U					0.0740 U	0.144	
231-B3-0-0.5	'0-0.5	8/22/2001	0.0549 J	0.190 U					0.0770 U	0.0770 U	
231-B4-0-0.5	'0-0.5	8/30/2001	0.0770 U	0.190 U					0.0770 U	0.0770 U	
231-B4-6-8	'6-8	9/27/2001	0.0240 J	0.0334 J					0.0800 U	0.0800 U	
231-B5-0.5-2	'0.5-2	9/19/2001	0.175	0.210 U					0.0840 U	0.0841	
231-B6-0-0.5	'0-0.5	9/27/2001	0.0701 J	0.230 U					0.0910 U	0.0770 J	
231-B6-4-6	'4-6	9/27/2001	0.0743 J	0.190 U					0.0750 U	0.0750 U	
231-B7-0-0.5	'0-0.5	9/13/2001	0.501	1.00 U					0.410 U	0.410 U	
231-B8-0-0.5	'0-0.5	9/27/2001	0.200 J	0.390 UJ					0.160 UJ	0.160 UJ	
231-B8-8-10	'8-10	9/27/2001	6.50 U	16.0 U					6.50 UJ	2.93 J	
231-B9-0.5-2	'0.5-2	9/27/2001	0.0879 J	0.230 U					0.0940 U	0.0940 U	
231-B9-0-0.5	'0-0.5	9/27/2001	0.185 J	1.20 U					0.470 UJ	0.470 U	
240-1-0-0.5	'0-0.5	9/26/2001	0.158	0.200 U					0.0810 U	0.0482 J	
240-1-8-10	'8-10	10/1/2001	0.0810 U	0.200 U					0.0810 U	0.0810 U	
5K-B1-0-0.5	'0-0.5	10/1/2001	0.410 U	1.00 U					0.410 U	0.410 U	
5K-B2-0-0.5	'0-0.5	8/31/2001	0.0710 U	0.180 U					0.0710 UJ	0.0710 U	
5K-B2-8-10	'8-10	8/31/2001	0.0945	0.200 U					0.0820 U	0.117	
5K-B3-0-0.5	'0-0.5	9/26/2001	0.0609 J	0.200 U					0.0800 UJ	0.0800 U	
5K-B4-0-0.5	'0-0.5	10/1/2001	0.460 U	1.20 U					0.460 UJ	0.460 U	
5K-B4-4-6	'4-6	10/1/2001	0.550 U	1.40 U					0.550 U	2.85	
5K-B5-0-0.5	'0-0.5	8/31/2001	0.690	0.200 U					0.0780 U	3.21	
5K-B5-4-6	'4-6	9/26/2001	0.152	0.220 U					0.0870 U	0.894	
AB-1-0-0.5	'0-0.5	9/4/2001	0.177	0.200 U					0.0780 U	0.0370 J	
AB-2-0.5-2	'0.5-2	9/4/2001	0.0840 J	0.220 U					0.0870 UJ	0.0451 J	
AB-2-0-0.5	'0-0.5	9/4/2001	0.0880	0.200 U					0.0810 U	0.0810 U	
ADN-1-0-0.5	'0-0.5	9/5/2001	0.384	0.190 U					0.0381 J	0.384	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001	0.477	0.330					0.0960 U	2.73	
ADN-2-0-0.5	'0-0.5	9/5/2001	0.0820 U	0.200 U					0.0820 U	0.0820 U	
ADN-2-10-11	'10-11	9/27/2001	0.0800 U	0.200 U					0.0800 U	0.0800 U	
ADS-1-0-.5	'0-0.5	7/17/2001	0.330 J	0.940 U					0.370 U	0.370 U	
ADS-10-0-0.5	'0-2	7/18/2001	0.443	0.190 U					0.0868	0.107	
ADS-101-0-1	'0-1	12/5/2006	0.0478 J	0.0560 U					0.0200 U	0.0180 U	
ADS-101-1-3	'1-3	12/5/2006	0.0140 U	0.0540 U					0.0200 U	0.0180 U	
ADS-102-0-1.5	'0-2	12/5/2006	0.0493 J	0.0530 U					0.0200 U	0.0335 J	
ADS-102-7-8	'4-8	12/5/2006	0.0245 J	0.0580 U					0.0210 U	0.0190 U	
ADS-10-4-6	'4-6	7/18/2001	0.0761 J	0.240 U					0.0950 U	0.0950 U	
ADS-11-0-0.5	'0-2	7/18/2001	1.47	0.190 U					0.124	0.103	
ADS-12-0.5-2	'0.5-2	7/18/2001	0.0718 J	0.220 U					0.0870 U	0.0870 U	
ADS-12-0-0.5	'0-0.5	7/18/2001	0.0778 J	0.210 U					0.0850 U	0.0850 U	
ADS-2-0-0.5	'0-0.5	7/18/2001	0.0800 U	0.200 U					0.0800 U	0.0800 U	
ADS-2-4-6	'4-6	7/18/2001	0.0810 U	0.200 U					0.0810 U	0.0810 U	
ADS-3-0-0.5	'0-0.5	7/18/2001	0.0478 J	0.190 U					0.0780 UJ	0.0780 U	
ADS-4-0-0.5	'0-2	7/18/2001	0.340	0.190 U					0.0797 J	0.0770 U	
ADS-4-12-14	'12-14	7/18/2001	0.276	0.210 U					0.0850 U	1.60	
ADS-5-0-0.5	'0-0.5	7/18/2001	0.360 UJ	0.900 U					0.360 UJ	0.360 U	
ADS-5-4-6	'4-6	9/27/2001	0.0359 J	0.190 U					0.0740 U	0.0740 U	
ADS-6-0.5-2	'0.5-2	7/18/2001	0.205	0.190 U					0.0760 U	0.0583 J	
ADS-6-0-0.5	'0-0.5	7/18/2001	0.201 J	0.950 U					0.380 U	0.380 U	
ADS-7-0-.5	'0-0.5	7/17/2001	0.711	0.900 U					0.360 U	0.360 U	
ADS-8-0-0.5	'0-0.5	7/18/2001	0.0750 J	0.210 U					0.0820 U	0.0820 U	
ADS-8-4-6	'4-6	7/18/2001	0.0577 J	0.210 U					0.0830 U	0.0830 U	
ADS-9-0-0.5	'0-0.5	7/18/2001	0.152	0.220 U					0.0860 U	0.0860 U	
BLIND DUP	'0-0	8/21/2001	0.260	0.180 U					0.0710 U	0.0710 U	
BSL-10-0-1	'0-1	9/21/2001	0.0990 U	0.250 U					0.0990 UJ	0.0990 U	
BSL-1-0-1	'0-1	9/20/2001	0.172	0.200 U					0.0790 U	0.0790 U	
BSL-11-0-1	'0-1	9/26/2001	0.0718 J	0.240 U					0.0960 U	0.0960 U	
BSL-12-0-1	'0-1	9/26/2001	0.0760 U	0.190 U					0.0760 U	0.0760 U	
BSL-1-4-6	'4-6	9/20/2001	0.0980 U	0.240 U					0.0980 U	0.0980 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001	0.153	0.250 U					0.100 U	0.100 U	
BSL-3-0-0.5	'0-0.5	9/20/2001	0.0710 U	0.180 U					0.0710 U	0.0710 U	
BSL-4-0-1	'0-0.5	9/21/2001	0.0860 U	0.220 U					0.0860 U	0.0860 U	
BSL-4-4-6	'4-6	9/21/2001	0.140 U	0.350 U					0.140 U	0.140 U	
BSL-5-0-.5	'0-0.5	9/21/2001	0.0820 U	0.200 U					0.0820 U	0.0820 U	
BSL-6-0-1	'0-1	9/26/2001	0.143	0.270 U					0.110 U	0.110 U	
BSL-6-1-2	'1-2	9/26/2001	0.0324 J	0.320 U					0.130 U	0.130 U	
BSL-7-0-.5	'0-0.5	9/21/2001	0.0980 U	0.240 U					0.0980 U	0.0980 U	
BSL-8-0-1	'0-1	9/26/2001	0.0414 J	0.300 U					0.120 U	0.120 U	
BSL-9-.5-2	'0.5-2	9/21/2001	0.110 U	0.270 U					0.110 U	0.110 U	
BSL-9-0-.5	'0-0.5	9/21/2001	0.0840 U	0.210 U					0.0840 U	0.0840 U	
BT-B1-0-0.5	'0-0.5	9/18/2001	0.0510 J	0.200 U					0.0810 U	0.0810 U	
BT-B2-0.5-2	'0.5-2	9/18/2001	0.0345 J	0.200 U					0.0790 U	0.0790 U	
BT-B2-0-0.5	'0-0.5	9/18/2001	0.0860 U	0.220 U	2.00 JN				0.0860 U	0.0860 U	
BT-B3-0-0.5	'0-0.5	9/18/2001	0.390 U	0.960 U					0.390 U	0.390 U	
BT-B4-0.5-2	'0.5-2	8/30/2001	0.0820	0.190 U					0.0770 UJ	0.0458 J	
BT-B4-0-0.5	'0-0.5	8/30/2001	0.340 U	0.840 U					0.340 UJ	0.340 U	
BT-B5-0-.5	'0-0.5	10/2/2001	0.0751 J	0.200 U					0.0810 UJ	0.0540 J	
BT-B6-0.5-2	'0.5-2	9/17/2001	0.188	0.220 U					0.0880 U	0.0880 U	
BT-B6-0-0.5	'0-0.5	9/17/2001	0.340 U	0.860 U					0.340 U	0.340 U	
CF-1-0-0.5	'0-0.5	8/31/2001	0.0343 J	0.180 U					0.0740 U	0.0740 U	
CF-1-2-4	'2-4	8/31/2001	0.268	0.190 U					0.0389 J	0.107	
CF-2-0-0.5	'0-0.5	8/28/2001	0.0942	0.210 U					0.0820 U	0.0820 U	
CF-3-0.5-2	'0.5-2	8/28/2001	0.130 U	0.330 U					0.130 U	0.130 U	
CF-3-0-0.5	'0-0.5	8/28/2001	0.184	0.250 U					0.0990 U	0.0990 U	
CF-4-0-0.5	'0-0.5	8/28/2001	0.232	0.220 U					0.0870 U	0.0870 U	
CF-5-0-0.5	'0-0.5	8/28/2001	0.0700 U	0.170 U					0.0700 U	0.0700 U	
CF-5-4-6	'4-6	8/28/2001	0.0921	0.190 U					0.0750 U	0.0750 U	
CF-6-0-0.5	'0-0.5	8/28/2001	0.111	0.190 U					0.0770 U	0.0770 U	
CF-7-0-0.5	'0-0.5	8/28/2001	0.0957	0.190 U					0.0750 U	0.0750 U	
CF-7-4-6	'4-6	8/28/2001	0.197	0.180 U					0.0700 UJ	0.0435 J	
CF-8-0-0.5	'0-0.5	8/28/2001	0.242	0.190 U					0.0770 U	0.0575 J	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001	0.0271 J	0.180 U					0.0720 U	0.0720 U	
CF-9-0-0.5	'0-0.5	8/31/2001	0.0414 J	0.180 U					0.0740 U	0.0740 U	
DC-B12-0-0.5	'0-0.5	10/3/2001	0.0937	0.190 U					0.0760 U	0.0424 J	
DC-B12-2-4	'2-4	10/3/2001	0.116	0.180 U					0.0730 U	0.0730 U	
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.722	0.180 U					0.0810	0.0730 U	
DC-SS11-0-0.5	'0-0.5	9/17/2001	6.57	0.920 U					0.201 J	12.4	
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.242 J	0.860 U					0.350 U	0.350 U	
DC-SS15-0-0.5	'0-0.5	9/17/2001	3.74	1.00 U			1.20 JN		0.410 U	1.26	
DC-SS17-0-0.5	'0-0.5	9/17/2001	3.33	0.210 U					0.0809 J	1.31	
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.0535 J	0.180 U					0.0740 U	0.0740 U	
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.0520 J	0.220 U					0.0880 U	0.0880 U	
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.0691 J	0.190 U					0.0750 U	0.0750 U	
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.0403 J	0.190 U					0.0760 U	0.0760 U	
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.187	0.190 U					0.0760 U	0.149	
DSP-1-0-0.5	'0-0.5	10/3/2001	0.0475 J	0.200 U					0.0820 U	0.0820 U	
DSP-1-4-6	'4-6	11/19/2001	0.0820 U	0.210 U					0.0820 U	0.0820 U	
DSP-2-0-0.5	'0-0.5	9/4/2001	0.0551 J	0.180 U					0.0740 UJ	0.0740 U	
DSP-3-0-0.5	'0-0.5	9/4/2001	0.380 U	0.940 U					0.380 UJ	0.380 U	
DSP-3-2-4	'2-4	9/4/2001	0.0830 U	0.210 U					0.0830 U	0.0830 U	
DSP-4-0-0.5	'0-0.5	9/4/2001	0.0392 J	0.210 U					0.0850 UJ	0.0850 U	
DSP-4-4-6	'4-6	9/26/2001	0.0365 J	0.210 U					0.0860 U	0.0860 U	
DUP-01-010824	'0-0.5	8/24/2001	0.265	0.190 U					0.0197 J	0.272	
DUP-01-010831	'2-4	8/31/2001	0.244	0.190 U					0.0440 J	0.227	
DUP-01-010904	'0-0.5	9/4/2001	0.136 J	0.920 U					0.370 U	0.370 U	
DUP-01-010905	'8-10	9/5/2001	1.04	0.210 U					0.0257 J	8.12	
DUP-01-010906	'0-8	9/6/2001	13.7	0.760 U					0.310 U	156.	5.60 JN
DUP-01-010913	'0-0.5	9/13/2001	0.380 U	0.960 U					0.380 U	0.380 U	
DUP-01-010917	'0-0.5	9/17/2001	0.157	0.190 U					0.0770 U	0.162	
DUP-01-010926	'1-2	9/26/2001	0.118 J	0.320 U					0.130 U	0.130 U	
DUP-01-010927	'4-6	9/27/2001	0.0272 J	0.180 U					0.0740 U	0.0740 U	
DUP-01-021001	'0-0	10/2/2001	0.219	0.190 U					0.0750 U	0.0523 J	
DUP-01-08 2201	'1.5-2	8/22/2001	0.0463 J	0.200 U					0.0800 U	0.0800 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001	0.166	0.190 U					0.0770 U	0.0770 U	
DUP-01-170402	'0-0	4/17/2002	0.284	0.764					0.180 U	0.928	0.420 JN
DUP-02-010913	'0-0.5	9/13/2001	0.393 J	1.10 U					0.430 U	0.430 U	
DUP-02-010921	'0-1	9/21/2001	0.0236 J	0.230 U					0.0910 U	0.0910 U	
DUP-02-010926	'4-6	9/26/2001	0.0749 J	0.220 U					0.0900 UJ	1.51	
DUP060807	'0-0	6/8/2007	0.0540 J	0.0490 U					0.0180 U	0.0160 U	
DUP-1-010828	'0-0.5	8/28/2001	0.0665 J	0.190 U					0.0770 U	0.0770 U	
DUP-1-010921	'0-0.5	9/21/2001	0.100 U	0.260 U					0.100 U	0.100 U	
DUP110606	'15-17	11/6/2006	0.0160 U	0.0600 U					0.0220 U	0.0200 U	
DUP112006	'16-18	11/20/2006	0.0240 U	0.0940 U					0.0340 U	0.0300 U	
DUP112106	'10-12	11/21/2006	0.0250 U	0.0980 U					0.0360 U	0.0320 U	
DUP-120506	'0-4	12/5/2006	0.149 J	0.150 U					0.0530 U	0.0470 U	
DUP-120606	'0-4	12/6/2006	0.363	0.0490 U					0.0274 J	0.0160 U	
DUPE071801	'0-0.5	7/18/2001	0.0740 U	0.180 U					0.0740 U	0.0740 U	
EC-1	'0-1	8/21/2001	0.0449 J	0.190 U					0.0760 U	0.0760 U	
EC-2	'0-1	8/21/2001	0.324	0.190 U					0.0394 J	0.0750 U	
EC-3	'0-1	8/21/2001	0.120	0.180 U					0.0710 UJ	0.0710 U	
EC-4	'0-1	8/21/2001	0.112	0.180 U					0.0740 UJ	0.0740 U	
EC-5	'0-1	8/21/2001	0.0740 U	0.180 U					0.0740 U	0.0740 U	
EC-6	'0-1	8/21/2001	0.0820 U	0.210 U					0.0820 U	0.0820 U	
EC-7	'0-1	8/21/2001	0.135	0.200 U					0.0800 UJ	0.0800 U	
EC-8	'0-1	8/21/2001	0.171	0.180 U					0.0740 UJ	0.0740 U	
EC-9	'0-1	8/21/2001	0.486	0.220 U					0.0677 J	0.0391 J	
ESR-1-0-1	'0-0.5	9/4/2001	0.0710 U	0.180 U					0.0710 U	0.0710 U	
ESR-1-4-6	'4-6	9/4/2001	0.0493 J	0.210 U					0.0830 UJ	0.0830 U	
HB-101A	'17-17	3/5/2007	0.0140 U	4.56					0.0200 U	0.0736 J	
HB-102A	'0-0	3/13/2007	0.0220 U	0.0860 U					0.0310 U	0.0280 U	
HB-102B	'0-0	3/14/2007	0.0624 J	0.0580 U					0.0210 U	0.0871	
HB-102C	'0-0	3/14/2007	0.0140 U	0.0540 U					0.0200 U	0.0180 U	
H-B-103A	'17-17	2/20/2007	0.0767 J	0.0760 U					0.0280 U	0.384	
H-B-104A	'17-17	2/23/2007	0.0150 U	0.0590 U					0.0220 U	0.0190 U	
H-B-104B	'17-17	2/23/2007	0.0140 U	0.0550 U					0.0200 U	0.0180 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007	1.97	0.333					0.104	9.57	
H-B-104D	'17-17	2/27/2007	0.0140 U	0.0560 U					0.0200 U	0.0217 J	
H-B-104E	'17-17	2/27/2007	0.115	0.0570 U					0.0210 U	0.511	
H-B-105C	'17-17	2/8/2007	0.0150 J	0.0540 U					0.0200 U	0.0499 J	
H-B-105D	'17-17	2/8/2007	0.0150 U	0.0580 U					0.0210 U	0.0190 U	
H-B-105E	'0-0	2/8/2007	0.0150 U	0.0580 U					0.0210 U	0.0190 U	
HB-1A	'6.75-6.75	4/18/2002	0.0871 J	0.944					0.120 U	0.488	
HB-3A	'5.25-5.25	4/17/2002	0.381	1.15					0.210 U	1.43	0.680 JN
HB-3B	'4.5-4.5	4/17/2002	0.0780 U	0.200 U					0.0780 U	0.0780 U	
HB-3C	'4.5-4.5	4/18/2002	0.0770 U	0.190 U					0.0770 U	0.0770 U	
HB-3D	'4.5-4.5	4/18/2002	0.0800 U	0.235					0.0800 U	0.0800 U	
HB-4A	'5.33-5.33	4/19/2002	0.0640 J	0.205					0.0780 U	0.0517 J	
HB-5A	'3-3	4/22/2002	0.571	0.210 U					0.0830 U	0.641	
HB-7A	'5-5	4/19/2002	0.167	0.210 U					0.0830 U	0.142	
HB-8A	'3-3	4/23/2002	0.131	0.200 U					0.0800 U	0.0415 J	
HB-8B	'4.83-4.83	4/23/2002	0.0406 J	0.200 U					0.0790 U	0.0602 J	
HB-8C	'5.5-5.5	4/23/2002	0.145	0.253					0.0820 U	0.233	
HB-9A	'4.75-4.75	4/24/2002	2.27	0.210 U					0.0613 J	3.57	6.00 JN
HF-B1-0-0.5	'0-0.5	9/10/2001	0.793	0.200 U					0.0933	0.0800 U	
HF-B1-8-10	'8-10	9/10/2001	1.35	0.230 U					0.148	0.113	
HF-B2-0-0.5	'0-0.5	9/4/2001	0.159	0.180 U					0.0192 J	0.0418 J	
HF-B2-4-6	'4-6	9/4/2001	0.542	0.180 U					0.0465 J	0.0496 J	
HF-B3-0-.5	'0-0.5	10/2/2001	2.86	0.190 U			0.420 JN		0.267	0.210	0.400 JN
HF-B3-8-10	'8-10	10/2/2001	0.184	0.190 U					0.0760 U	0.0315 J	
IB-1-0-2	'0-2	4/8/2002	0.105	0.190 U					0.0780 U	0.197	0.200 JN
IB-1-4-6	'4-6	4/8/2002	0.196	0.190 U					0.0780 U	0.0569 J	
IB-2-12-14	'12-14	4/8/2002	4.78	0.210 U					0.153	20.5	
IB-2-4-6	'4-6	4/8/2002	0.479	0.190 U					0.0780 U	3.08	0.680 JN
IB-3-4-6	'4-6	4/8/2002	0.100	0.210 U					0.0850 U	0.755	
IB-3-8-10	'8-10	4/8/2002	0.343	0.220 U					0.0890 U	1.61	
LB-101-0-1	'0-1	12/6/2006	0.0130 U	0.0510 U					0.0190 U	0.0170 U	
LB-101-1-3	'1-3	12/6/2006	0.0746	0.0490 U					0.0370 J	0.0160 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006	0.0140 U	0.0530 U					0.0190 U	0.0170 U	
LB-102-1-3	'3-7	12/6/2006	0.0140 U	0.0520 U					0.0190 U	0.0170 U	
LB-103-0-1	'0-1	12/6/2006	0.0266 J	0.0510 U					0.0190 U	0.0170 U	
LB-103-5-7	'5-7	12/6/2006	0.0463 J	0.0590 U					0.0210 U	0.0190 U	
LHP-101-0-1	'0-1	12/4/2006	0.0680 UJ	0.260 U					0.0960 UJ	0.0850 U	
LHP-101-5-8	'4-8	12/4/2006	0.0490 U	0.190 U					0.0690 U	0.0610 U	
LHP-102-0-1	'0-1	12/5/2006	0.0481 J	0.0530 U					0.0200 U	0.0180 J	
LHP-102-7-9	'7-9	12/5/2006	0.462	0.0660 U					0.0826 J	0.0418 J	
LHP-103-0-1	'0-1	12/5/2006	0.378	0.270 U					0.127 J	0.0870 U	
LHP-103-1-3	'1-3	12/5/2006	0.0589 J	0.0580 U					0.0210 U	0.0321 J	
LHP-104-0-1	'0-1	12/5/2006	0.0206 J	0.0500 U					0.0180 U	0.0160 U	
LHP-104-7-9	'4-8	12/5/2006	0.0402 J	0.0560 U					0.0200 U	0.0197 J	
LHP-105-0-1	'0-1	12/5/2006	0.167 J	0.250 U					0.0910 U	0.0810 U	
LHP-105-1-3	'1-3	12/5/2006	0.167	0.0500 U					0.125	0.0160 U	
LHP-106-0-1	'0-1	12/4/2006	0.204 J	0.250 U					0.0900 UJ	0.0800 U	
LHP-106-1-3	'1-3	12/4/2006	0.0770 U	0.300 U					0.110 U	0.0970 U	
LHP-107-0-1	'0-1	12/5/2006	0.590	0.0510 U					0.207	0.0170 U	
LHP-107-5-7	'4-8	12/5/2006	0.0292 J	0.0540 U					0.0200 U	0.0180 U	
LHP-108-0-1	'0-1	12/6/2006	1.06 J	0.0540 U					0.180 J	0.0170 U	
LHP-108-3-7	'3-7	12/6/2006	0.0150 U	0.0580 U					0.0210 U	0.0190 U	
LHP-109-0-1	'0-1	12/6/2006	0.128 J	0.0540 U					0.0200 U	0.0180 U	
LHP-109-7-9	'7-9	12/6/2006	0.0642 J	0.0650 U					0.0240 U	0.0701 J	
LHP-110-0-1	'0-1	12/4/2006	1.05 J	0.540 U					0.200 UJ	0.180 U	
LHP-111-0-1	'0-1	12/4/2006	0.116	0.0530 U					0.0190 U	0.0170 U	
LHP-112-0-1	'0-1	12/4/2006	0.603 J	0.0540 U					0.0807 J	0.153	
LHP-113-0-1	'0-1	12/4/2006	0.0735	0.0500 U					0.0180 U	0.0160 U	
LHP-114-0-1	'0-1	12/4/2006	0.0866	0.0520 U					0.0190 U	0.0170 U	
LHP-115-0-1	'0-1	12/4/2006	0.0130 U	0.0500 U					0.0180 U	0.0160 U	
LHP-116-0-1	'0-1	12/4/2006	0.0800	0.0530 U					0.0200 U	0.0170 U	
LHP-117-0-1	'0-1	12/4/2006	0.131	0.0550 U					0.0200 U	0.0180 U	
LHP-118-0-1	'0-1	12/4/2006	0.0730 U	0.280 U					0.100 U	0.0910 U	
LHP-119-0-1	'0-1	12/4/2006	0.0480 J	0.0550 U					0.0200 U	0.0180 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006	0.152	0.0610 U					0.0220 U	0.0469 J	
LHP-121-0-1	'0-1	12/6/2006	0.0298 J	0.0540 U					0.0200 U	0.0180 U	
LHP-122-0-1	'0-1	12/6/2006	0.128 J	0.0510 U					0.0190 U	0.0170 U	
LHP-123-0-1	'0-1	12/4/2006	0.227 J	0.0550 U					0.0466 J	0.0180 U	
LHP-124-.5-2	'0.5-2	10/27/2006	0.529	0.0550 U					0.0884	0.0188 J	
LHP-124-10-12	'10-12	10/31/2006	0.0230 U	0.0880 U					0.0320 U	0.0290 U	
LHP-124-2-4	'2-4	10/27/2006	0.193	0.0560 U					0.0200 U	0.0180 U	
LHP-124-28-30	'28-30	10/31/2006	0.0170 U	0.0660 U					0.0240 U	0.0220 U	
LHP-125-.5-2	'0.5-2	10/27/2006	0.649	0.0540 U					0.122	0.0310 J	
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0160 U	0.0610 U					0.0220 U	0.0200 U	
LHP-125-12-14	'12-14	11/1/2006	0.0140 U	0.0550 U					0.0200 U	0.0180 U	
LHP-125-4-6	'4-6	10/27/2006	0.0202 J	0.0530 U					0.0190 U	0.0170 U	
LHP-126-10.5-12	'10.5-12	11/1/2006	0.0590 UJ	0.230 UJ					0.0840 UJ	0.0750 UJ	
LHP-126-14-16	'14-16	11/1/2006	0.0150 U	0.0570 U					0.0210 U	0.0180 U	
LHP-126-2-4	'2-4	10/26/2006	0.0594 J	0.0530 U					0.0190 UJ	0.0276 J	
LHP-126-8-10	'9-10	10/26/2006	0.0495 J	0.0590 U					0.0210 UJ	0.0190 U	
LHP-127-0-1	'0-1	12/6/2006	0.256 J	0.0510 U					0.0190 U	0.0564 J	
LHP-127-3-5	'3-5	12/6/2006	0.0253 J	0.0500 U					0.0180 U	0.0160 U	
LHP-128-0-1	'0-4	12/6/2006	0.358	0.0490 U					0.0244 J	0.0160 U	
LHP-128-7-8	'17-17	12/6/2006	0.0917 J	0.0650 U					0.0240 U	0.0453 J	
LP-1-0-0.5	'0-0.5	8/27/2001	0.0750 U	0.190 U					0.0750 U	0.0750 U	
LP-10-0.5-2	'0.5-2	8/27/2001	0.0840 U	0.210 U					0.0840 U	0.0840 U	
LP-10-0-0.5	'0-0.5	8/27/2001	0.103	0.190 U					0.0760 U	0.0760 U	
LP-101-11-13	'11-13	11/2/2006	0.0230 U	0.0890 U					0.0320 U	0.0290 U	
LP-101-14-16	'14-16	11/2/2006	0.0200 U	0.0770 U					0.0280 U	0.0250 U	
LP-101-26-28	'26-28	11/2/2006	0.0140 U	0.0550 U					0.0200 U	0.0180 U	
LP-101-50-52	'50-52	11/2/2006	0.0140 U	0.0540 U					0.0200 U	0.0180 U	
LP-11-0-0.5	'0-0.5	8/27/2001	0.133	0.210 U					0.0840 U	0.0840 U	
LP-12-0-0.5	'0-0.5	8/27/2001	0.0740 U	0.180 U					0.0740 U	0.0740 U	
LP-12-4-6	'4-6	8/27/2001	0.0730 U	0.180 U					0.0730 U	0.0730 U	
LP-13-0-0.5	'0-0.5	8/24/2001	0.114	0.210 U					0.0840 U	0.0840 U	
LP-14-0.5-2	'0.5-2	8/24/2001	0.144	0.180 U					0.0710 U	0.0710 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001	1.08	0.920 U					0.370 U	0.370 U	
LP-15-0-0.5	'0-0.5	8/24/2001	0.0988	0.190 U					0.0760 U	0.0760 U	
LP-16-0.5-2	'0.5-2	8/27/2001	0.360 U	0.910 U					0.360 U	0.360 U	
LP-16-0-0.5	'0-0.5	8/27/2001	0.118	0.190 U					0.0770 U	0.0770 U	
LP-2-0.5-2	'0.5-2	8/28/2001	0.179	0.190 U					0.0760 U	0.0760 U	
LP-2-0-0.5	'0-0.5	8/28/2001	0.0750 U	0.190 U					0.0750 UJ	0.0750 U	
LP-3-0-0.5	'0-0.5	8/27/2001	0.280	0.180 U					0.0313 J	0.0710 U	
LP-4 .5-2	'0.5-2	8/21/2001	0.344	0.180 U					0.0740 UJ	0.101	
LP-4 0-.5	'0-0.5	8/21/2001	0.0856	0.200 U					0.0800 U	0.0800 U	
LP-5-0-0.5	'0-0.5	8/27/2001	0.105	0.190 U					0.0750 U	0.0750 U	
LP-6-0-0.5	'0-0.5	8/27/2001	0.0724 J	0.180 U					0.0730 U	0.0730 U	
LP-6-4-6	'4-6	8/27/2001	0.0740 U	0.180 U					0.0740 UJ	0.0740 U	
LP-7-0-0.5	'0-0.5	8/24/2001	0.426	0.200 U					0.0395 J	0.0291 J	
LP-8-0-0.5	'0-0.5	8/24/2001	0.0948	0.200 U					0.0810 U	0.0360 J	
LP-8-10-12	'10-12	8/24/2001	0.110 U	0.280 U					0.110 U	0.110 U	
LP-9-0-0.5	'0-0.5	8/24/2001	0.198 J	0.920 U					0.370 U	0.370 U	
MW-11D-12-14	'12-14	12/14/2006	0.0220 U	0.0850 U					0.0310 U	0.0280 U	
MW-11D-14-16	'14-16	12/14/2006	0.0150 U	0.0570 U					0.0210 U	0.0180 U	
MW-11D-16-18	'16-18	12/14/2006	0.0150 U	0.0560 U					0.0210 U	0.0180 U	
MW-14D-13-15	'13-15	11/14/2006	0.0160 U	0.0610 U					0.0220 U	0.0200 U	
MW-14D-17-19	'17-19	11/14/2006	0.0150 U	0.0560 U					0.0210 U	0.0180 U	
MW-16D-13-15	'13-15	11/17/2006	0.0140 U	0.0947 J					0.0200 U	0.0180 U	
MW-16D-17-19	'17-19	11/20/2006	0.0140 U	0.0560 U					0.0200 U	0.0180 U	
MW-17D-15-17	'15-17	11/10/2006	0.279	0.346					0.0220 U	0.0200 U	
MW-17D-17-19	'17-19	11/10/2006	0.0140 U	0.0560 U					0.0200 U	0.0180 U	
MW-18D-13-15	'13-15	11/13/2006	0.0150 U	0.0600 U					0.0220 U	0.0190 U	
MW-18D-17-19	'17-19	11/13/2006	0.0140 U	0.0550 U					0.0200 U	0.0180 U	
MW-20D-12-14	'12-14	11/9/2006	0.0194 J	0.0580 U					0.0210 U	0.0190 U	
MW-20D-32-34	'32-32.9	11/10/2006	0.0140 U	0.0550 U					0.0200 U	0.0180 U	
MW-20D-36-38	'36-38	11/10/2006	0.0140 U	0.0560 U					0.0200 U	0.0180 U	
MW-21D-13-15	'13-13.7	11/16/2006	0.0150 U	0.0590 U					0.0220 U	0.0190 U	
MW-21D-15-17	'15-17	11/16/2006	0.0140 U	0.0560 U					0.0210 U	0.0180 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006	0.0150 U	0.425					0.0220 U	0.0190 U	
MW-23D-37-39	'37-37.9	11/15/2006	0.0140 U	0.0540 U					0.0200 U	0.0180 U	
MW-25D-10-12	'10-12	11/21/2006	0.0260 U	0.100 U					0.0370 U	0.0330 U	
MW-25D-33-35	'33-35	12/18/2006	0.0160 U	0.0600 U					0.0220 U	0.0200 U	
MW-26S-8-10	'8-10	10/26/2006	0.191 J	0.0630 U					0.0230 UJ	0.177	
MW-6D-0-2	'0-2	11/8/2006	0.0140 U	0.0540 U					0.0200 U	0.0180 U	
MW-6D-12-14	'12-14	11/8/2006	0.0320 U	0.181 J					0.0460 U	0.0410 U	
MW-6D-16-18	'16-18	11/20/2006	0.0230 U	0.0880 U					0.0320 U	0.0290 U	
MW-6D-30-32	'30-32	11/21/2006	0.0140 U	0.0560 U					0.0210 U	0.0180 U	
PCA-1-0-.5	'0-2	7/17/2001	0.360 U	0.900 U					0.360 U	0.360 U	
PCA-1-4-6	'4-6	7/17/2001	0.0800 U	0.200 U					0.0800 U	0.0800 U	
PCA-2-0-.5	'0-0.5	7/17/2001	0.0730 U	0.180 U					0.0730 U	0.0730 U	
PCA-3-0-0.5	'0-0.5	9/13/2001	0.341	0.390 U					0.160 U	0.0595 J	
PCA-3-4-6	'4-6	9/13/2001	0.162	0.210 U					0.0850 U	0.0714 J	
PCA-4-0-0.5	'0-0.5	9/13/2001	0.380 U	0.950 U					0.380 U	0.380 U	
PCA-4-4-6	'4-6	9/26/2001	0.0830 U	0.210 U				1.60 JN	0.0830 U	0.0830 U	
PCA-5-0.5-2	'0.5-2	9/7/2001	0.0589 J	0.190 U					0.0780 U	0.0780 U	
PCA-5-0-0.5	'0-0.5	9/7/2001	0.0419 J	0.210 U					0.0850 U	0.0373 J	
PCA-6-0-0.5	'0-0.5	9/7/2001	0.312	0.180 U					0.0273 J	0.0304 J	
RR-1 0-0.5	'0-0.5	8/22/2001	5.07	0.180 U					0.239	3.35	
RR-1 14-16	'14-16	8/22/2001	0.138	0.200 U					0.0820 U	0.475	
RR-10 0-.5	'0-0.5	10/12/2001	0.365	0.180 U					0.0740 U	0.0384 J	
RR-11 0-.5	'0-0.5	10/12/2001	0.135	0.200 U					0.0800 U	0.0800 U	
RR-12 0-.5	'0-0.5	10/12/2001	0.134	0.200 U					0.0780 U	0.0239 J	
RR-2-0-0.5	'0-0.5	9/13/2001	0.420 U	1.00 U					0.420 U	0.420 U	
RR-2-8-10	'8-10	9/13/2001	0.125	0.250 U					0.0990 U	0.0990 U	
RR-3-0-0.5	'0-0.5	9/13/2001	0.0720 U	0.180 U					0.0720 U	0.0720 U	
RR-4-0-0.5	'0-0.5	9/10/2001	0.897	0.200 U			0.350 JN		0.192 J	0.123	
RR-4-6-8	'6-8	9/13/2001	0.0948	0.190 U					0.0770 U	0.0770 U	
RR-5-0-0.5	'0-0.5	9/10/2001	0.359	0.170 U					0.0311 J	0.0355 J	
RR-6-0-0.5	'0-0.5	9/10/2001	0.653	0.180 U					0.106	0.0232 J	
RR-6-8-10	'8-10	9/10/2001	0.127	0.190 U					0.0760 U	0.0760 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001	0.0545 J	0.190 U					0.0760 UJ	0.0536 J	
RR-8-0-0.5	'0-0.5	9/26/2001	0.611	0.220 U					0.0513 J	0.0860 U	
RR-8-6-8	'6-8	9/26/2001	0.140 U	0.340 U					0.140 U	0.140 U	
RR-9 0-.5	'0-0.5	10/12/2001	0.141	0.180 U					0.0226 J	0.0730 U	
SC-1	'0-1	8/21/2001	0.0900 U	0.220 U					0.0900 UJ	0.0900 U	
SC-2	'0-1	8/22/2001	0.234	0.170 U					0.0700 U	0.0700 U	
SC-3	'0-1	8/22/2001	0.114	0.200 U					0.0780 U	0.0780 U	
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.113	0.190 U					0.0770 UJ	0.0770 U	
SILO-B1-6-8	'6-8	9/6/2001	6.33	0.740 U					0.300 U	64.9	
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.360 U	0.900 U					0.360 U	0.360 U	
SILO-B3-0-0.5	'0-0.5	9/6/2001	0.178 J	1.00 U					0.410 UJ	0.410 U	
SILO-B3-6-8	'6-8	9/6/2001	0.0740 U	0.180 U					0.0740 U	0.0740 U	
SILO-B4-0-0.5	'0-0.5	9/6/2001	0.420 U	1.00 U					0.420 UJ	0.420 U	
SPR-1-0-0.5	'0-0.5	9/5/2001	0.316 J	0.960 U					0.380 U	0.380 U	
SPR-1-8-10	'8-10	9/5/2001	0.0454 J	0.260 U					0.100 U	0.100 U	
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.155	0.190 U					0.0750 U	0.0619 J	
SPR-2A-8-10	'8-10	7/19/2001	0.0880 U	0.220 U					0.0880 U	0.0880 U	
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.127	0.180 U					0.0720 U	0.0720 U	
SPR-2B-10-12	'10-12	7/19/2001	0.100 U	0.250 U					0.100 U	0.100 U	
SPR-3 0-.5	'0-0.5	8/21/2001	0.0734	0.180 U					0.0720 U	0.0720 U	
SPR-3 4-6	'4-6	8/21/2001	0.0278 J	0.210 U					0.0860 U	0.0860 U	
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.624	0.200 U					0.0810 U	0.0810 U	
SPR-4A-8-10	'8-10	7/19/2001	0.110 U	0.280 U					0.110 U	0.110 U	
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.0800 U	0.200 U					0.0800 U	0.0800 U	
SPR-4B-4-6	'4-6	8/23/2001	0.0800 U	0.200 U					0.0800 U	0.0800 U	
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.156 J	0.920 U					0.370 U	0.370 U	
SPR-4C-4-6	'4-6	8/23/2001	0.0860 U	0.220 U					0.0860 U	0.0860 U	
SPR-5-0-0.5	'0-0.5	9/5/2001	69.3	5.20 U			9.40 JN		8.76	2.49	
SPR-5-2-4	'2-4	9/5/2001	0.0860 U	0.220 U					0.0860 U	0.0860 U	
SPR-6-0.5-2	'0.5-2	9/13/2001	0.769	0.190 U					0.0680 J	0.0393 J	
SPR-6-0-0.5	'0-0.5	9/13/2001	0.0680 U	0.170 U					0.0680 U	0.0680 U	
SR-1-0-.5	'0-0.5	7/17/2001	0.131	0.180 U					0.0710 U	0.0710 U	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001	0.217	0.170 U					0.0680 U	0.0680 U	
ST-1-0-0.5	'0-0.5	9/5/2001	0.400 U	1.00 U					0.400 U	0.400 U	
ST-2-0-0.5	'0-0.5	9/5/2001	0.859	1.00 U					0.400 U	0.400 U	
ST-3-0-0.5	'0-0.5	9/4/2001	0.0247 J	0.200 U					0.0790 U	0.0790 U	
ST-3-4-6	'4-6	9/4/2001	2.72	0.260 U					0.164	0.100 U	
TES-1-0-1	'0-1	12/5/2006	0.212 J	0.270 U					0.753	0.0890 U	
TES-2-0-1	'0-1	12/4/2006	0.150 UJ	0.590 U					0.210 UJ	0.190 U	
TES-3-0-1	'0-1	12/4/2006	0.0849 J	0.290 U					0.110 U	0.0950 U	
TES-4-0-1	'0-1	12/5/2006	0.149	0.0530 U					0.0402 J	0.0671 J	
TLN-1 .5-2	'0.5-2	8/20/2001	0.198	0.210 U		1.00 JN			0.0840 U	0.0840 U	
TLN-1 0-.5	'0-0.5	8/20/2001	0.105	0.210 U					0.0830 U	0.0830 U	
TLN-2-0-0.5	'0-0.5	7/19/2001	0.0740 U	0.180 U					0.0740 U	0.0740 U	
TLN-3-0-.5	'0-0.5	7/17/2001	13.8	0.860 U					0.340 U	14.2	
TLN-3-2-4	'2-4	7/17/2001	0.157	0.190 U					0.0780 U	0.136	
TLN-4 0-.5	'0-0.5	8/20/2001	0.0690 U	0.170 U					0.0690 U	0.0690 U	
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.0393 J	0.180 U					0.0730 U	0.0730 U	
TLN-5 .5-2	'0.5-2	8/20/2001	0.310	0.180 U					0.0720 U	0.0720 U	
TLN-5 0-.5	'0-0.5	8/20/2001	0.417	0.180 U					0.0598 J	0.0720 U	
TLN-5-4-6	'4-6	8/30/2001	0.164	0.180 U					0.0336 J	0.0730 U	
TLN-6 0-.5	'0-0.5	8/20/2001	0.528	0.180 U					0.0540 J	0.0720 U	
TLS-10 0-.5	'0-0.5	8/21/2001	0.0780 U	0.190 U					0.0780 U	0.0780 U	
TLS-10 8-10	'8-10	8/21/2001	0.0516 J	0.240 U					0.0970 U	0.0970 U	
TLS-1-0-0.5	'0-0.5	9/5/2001	0.390 U	0.970 U					0.390 U	0.390 U	
TLS-11-0-0.5	'0-0.5	9/7/2001	0.134	0.190 U					0.0750 UJ	0.0750 U	
TLS-2-0-0.5	'0-0.5	9/7/2001	0.167 J	0.940 U					0.370 UJ	0.370 U	
TLS-2-6-8	'6-8	9/7/2001	0.120 U	0.290 U					0.120 U	0.120 U	
TLS-3 0-.5	'0-0.5	8/21/2001	0.0916	0.180 U					0.0740 U	0.0740 U	
TLS-4-0-0.5	'0-0.5	9/7/2001	0.144	0.180 U					0.0730 U	0.0323 J	
TLS-4-8-10	'8-10	9/7/2001	0.110 U	0.146 J					0.110 U	0.439	
TLS-5 0-0.5	'0-0.5	8/21/2001	0.0710 U	0.180 U					0.0710 U	0.0710 U	
TLS-5-8-10	'8-10	9/26/2001	0.100 U	0.260 U					0.100 U	0.378	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	Cyclododecane	Cyclohexanone	Cyclopenta(def)phenanthrenone	Deca-hydronaphthalene	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001	0.128	0.220 U					0.0900 UJ	0.0260 J	
TLS-6-3-5	'3-5	9/26/2001	17.1	22.0 U					8.90 UJ	8.90 U	
TLS-7 0-.5	'0-0.5	8/21/2001	0.179	0.250 U					0.0291 J	0.0990 U	
TLS-8-0-0.5	'0-0.5	9/7/2001	0.0724 J	0.190 U					0.0760 U	0.0760 U	
TLS-8-6-8	'6-8	9/7/2001	0.0834 J	0.220 U					0.0870 U	0.0282 J	
TLS-9 0-.5	'0-0.5	8/21/2001	0.360 U	0.910 U					0.360 UJ	0.360 U	
TP-105	'0-0	6/8/2007	0.0842	0.0480 U					0.0170 U	0.0160 U	
TP-105A	'0-0	6/8/2007	0.0120 U	0.0480 U					0.0170 U	0.0150 U	
TP-106-A	'0-0	6/8/2007	0.0569 J	0.0490 U					0.0180 U	0.0160 U	
TP-106-B	'0-0	6/8/2007	0.0120 U	0.0480 U					0.0180 U	0.0160 U	
WWT-1-0-0.5	'0-0.5	7/19/2001	0.120 J	0.980 U					0.390 UJ	0.390 U	
WWT-101-15-17	'15-17	11/6/2006	0.0150 U	0.0590 U					0.0220 U	0.0190 U	
WWT-101-21-23	'21-23	11/6/2006	0.0150 U	0.0570 U					0.0210 U	0.0180 U	
WWT-1-12-14	'12-14	8/23/2001	5.20 U	13.0 U					5.20 U	5.20 U	
WWT-2-0-0.5	'0-0.5	8/23/2001	0.0938	0.180 U					0.0720 UJ	0.0720 U	
WWT-2-12-14	'12-14	8/23/2001	0.325	0.630 U					0.250 UJ	0.250 U	
WWT-3-0-0.5	'0-0.5	8/23/2001	0.148 J	0.900 U					0.360 U	0.360 U	
WWT-3-12-14	'12-14	8/23/2001	0.169	0.390 U					0.160 U	0.152 J	

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			550000		68000	27000					
12K-B1-0.5-2	'0.5-2	9/6/2001	0.0850 U	0.0850 U	0.0850 U	0.0850 U					
12K-B1-0-0.5	'0-0.5	9/6/2001	0.0790 U	0.0790 U	0.0790 U	0.0790 UJ					
12K-B2-0.5-2	'0.5-2	9/6/2001	0.0790 U	0.0790 U	0.0790 U	0.0790 U					
12K-B2-0-0.5	'0-0.5	9/6/2001	0.0810 U	0.3990	0.0810 U	0.0810 U					
150K-1-0.5-2	'0.5-2	9/10/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
150K-1-0-0.5	'0-0.5	9/10/2001	0.4000 U	0.4000 U	0.4000 U	0.4000 UJ					
230-B1-0.5	'0-0.5	10/2/2001	0.0790 U	0.0790 U	0.0790 U	0.0790 U					
230-B10-0-0.5	'0-0.5	8/30/2001	0.0990 U	0.0990 U	0.0990 U	0.0990 UJ					
230-B10-1.5-2	'1.5-2	8/30/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
230-B11-0-0.5	'0-0.5	8/30/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 U					
230-B11-1.5-2	'1.5-2	8/30/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 U					
230-B1-4-6	'4-6	10/2/2001	0.3900 U	0.3900 U	0.3900 U	0.3900 U					
230-B2-0-0.5	'0-0.5	8/30/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
230-B2-1.5-2	'1.5-2	8/30/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 U					
230-B3-0-0.5	'0-0.5	8/30/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
230-B3-1.5-2	'1.5-2	8/30/2001	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
230-B4-0-0.5	'0-0.5	8/30/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
230-B4-1.5-2	'1.5-2	8/30/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
230-B5-0-0.5	'0-0.5	9/13/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
230-B5-1.5-2	'1.5-2	9/13/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
230-B6 0-0.5	'0-0.5	8/22/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
230-B6 1.5-2	'1.5-2	8/22/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
230-B7 0-0.5	'0-0.5	8/22/2001	0.0810 U	0.0554 J	0.0810 U	0.0810 U					
230-B7 1.5-2	'1.5-2	8/22/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U					
230-B8 1.5-2	'1.5-2	8/22/2001	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
230-B9 0-0.5	'0-0.5	8/22/2001	0.0710 U	0.0710 U	0.0710 U	0.0710 U					
230-B9 0-0.5	'0-0.5	8/22/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
230-B9 1.5-2	'1.5-2	8/22/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
231-B1-0-0.5	'0-0.5	10/5/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
231-B10-0-0.5	'0-0.5	9/17/2001	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
231-B11-0-0.5	'0-0.5	9/19/2001	0.0940 U	0.0940 U	0.0940 U	0.0940 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001	0.0850 U	0.0850 U	0.0850 U	0.0850 U					
231-B12-0-0.5	'0-0.5	9/17/2001	0.0750 U	0.0750 U	0.216	0.0750 U					
231-B13-0-0.5	'0-0.5	9/19/2001	0.390 U	0.390 U	0.390 U	0.390 U					
231-B13-8-10	'9-10	9/27/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
231-B14-0-0.5	'0-0.5	9/19/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U					
231-B2-0.5-2	'0.5-2	8/22/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
231-B2-0-0.5	'0-0.5	8/22/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
231-B3-0-0.5	'0-0.5	8/22/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
231-B4-0-0.5	'0-0.5	8/30/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
231-B4-6-8	'6-8	9/27/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
231-B5-0.5-2	'0.5-2	9/19/2001	0.0840 U	0.0840 U	0.0840 U	0.0840 U					
231-B6-0-0.5	'0-0.5	9/27/2001	0.0910 U	0.0910 U	0.0910 U	0.0910 U					
231-B6-4-6	'4-6	9/27/2001	0.0750 U	0.581	0.125	0.0750 U					
231-B7-0-0.5	'0-0.5	9/13/2001	0.410 U	0.410 U	0.410 U	0.410 U					
231-B8-0-0.5	'0-0.5	9/27/2001	0.160 UJ	2.96 J	0.529 J	0.160 UJ					
231-B8-8-10	'8-10	9/27/2001	6.50 U	6.50 U	6.50 U	6.50 UJ	13.0 JN				
231-B9-0.5-2	'0.5-2	9/27/2001	0.0940 U	0.0940 U	0.0940 U	0.0940 U					
231-B9-0-0.5	'0-0.5	9/27/2001	0.470 U	0.288 J	0.900	0.470 UJ					
240-1-0-0.5	'0-0.5	9/26/2001	0.0810 U	0.0626 J	0.0810 U	0.0810 U					
240-1-8-10	'8-10	10/1/2001	0.0810 U	0.0810 U	0.0810 U	0.0810 U					
5K-B1-0-0.5	'0-0.5	10/1/2001	0.410 U	0.410 U	0.410 U	0.410 U					
5K-B2-0-0.5	'0-0.5	8/31/2001	0.0710 U	0.832	0.0710 U	0.0710 UJ					
5K-B2-8-10	'8-10	8/31/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U		0.320 JN			
5K-B3-0-0.5	'0-0.5	9/26/2001	0.0800 U	0.0800 U	0.110	0.0800 UJ					
5K-B4-0-0.5	'0-0.5	10/1/2001	0.460 U	0.460 U	0.460 U	0.460 UJ					
5K-B4-4-6	'4-6	10/1/2001	0.550 U	0.550 U	0.550 U	0.550 U					
5K-B5-0-0.5	'0-0.5	8/31/2001	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
5K-B5-4-6	'4-6	9/26/2001	0.0870 U	0.0870 U	0.0870 U	0.0870 U					
AB-1-0-0.5	'0-0.5	9/4/2001	0.0780 U	0.0644 J	0.593	0.0780 U					
AB-2-0.5-2	'0.5-2	9/4/2001	0.0870 U	0.0870 U	0.0870 U	0.0870 UJ					
AB-2-0-0.5	'0-0.5	9/4/2001	0.0810 U	0.0810 U	0.0810 U	0.0810 U					
ADN-1-0-0.5	'0-0.5	9/5/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001	0.0960 U	0.0960 U	0.0960 U	0.0960 U	4.50 JN				
ADN-2-0-0.5	'0-0.5	9/5/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U					
ADN-2-10-11	'10-11	9/27/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
ADS-1-0-.5	'0-0.5	7/17/2001	0.370 U	0.370 U	0.370 U	0.370 U					
ADS-10-0-0.5	'0-2	7/18/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
ADS-101-0-1	'0-1	12/5/2006	0.0170 U	0.0170 U	0.0250 U	0.0330 U					
ADS-101-1-3	'1-3	12/5/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
ADS-102-0-1.5	'0-2	12/5/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
ADS-102-7-8	'4-8	12/5/2006	0.0170 U	0.0170 U	0.0260 U	0.0340 U					
ADS-10-4-6	'4-6	7/18/2001	0.0950 U	0.0950 U	0.0950 U	0.0950 U					
ADS-11-0-0.5	'0-2	7/18/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
ADS-12-0.5-2	'0.5-2	7/18/2001	0.0870 U	0.0870 U	0.0870 U	0.0870 U					
ADS-12-0-0.5	'0-0.5	7/18/2001	0.0850 U	0.0850 U	0.0850 U	0.0850 U					
ADS-2-0-0.5	'0-0.5	7/18/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
ADS-2-4-6	'4-6	7/18/2001	0.0810 U	0.0810 U	0.0810 U	0.0810 U					
ADS-3-0-0.5	'0-0.5	7/18/2001	0.0780 U	0.0780 U	0.0780 U	0.0780 UJ					
ADS-4-0-0.5	'0-2	7/18/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 UJ					
ADS-4-12-14	'12-14	7/18/2001	0.0850 U	0.0850 U	0.0850 U	0.0850 U					
ADS-5-0-0.5	'0-0.5	7/18/2001	0.360 U	0.360 U	0.360 U	0.360 UJ					
ADS-5-4-6	'4-6	9/27/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
ADS-6-0.5-2	'0.5-2	7/18/2001	0.0760 U	0.290	0.0760 U	0.0760 U					
ADS-6-0-0.5	'0-0.5	7/18/2001	0.380 U	0.380 U	0.380 U	0.380 U					
ADS-7-0-.5	'0-0.5	7/17/2001	0.360 U	0.360 U	0.360 U	0.360 U					
ADS-8-0-0.5	'0-0.5	7/18/2001	0.0820 U	0.0581 J	0.0820 U	0.0820 U					
ADS-8-4-6	'4-6	7/18/2001	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
ADS-9-0-0.5	'0-0.5	7/18/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
BLIND DUP	'0-0	8/21/2001	0.0710 U	0.0710 U	0.0710 U	0.0710 U					
BSL-10-0-1	'0-1	9/21/2001	0.0990 U	0.0990 U	0.0990 U	0.0990 UJ					
BSL-1-0-1	'0-1	9/20/2001	0.0790 U	0.0790 U	0.0790 U	0.0790 U					
BSL-11-0-1	'0-1	9/26/2001	0.0960 U	0.0960 U	0.0960 U	0.0960 U					
BSL-12-0-1	'0-1	9/26/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
BSL-1-4-6	'4-6	9/20/2001	0.0980 U	0.0980 U	0.0980 U	0.0980 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001	0.100 U	0.100 U	0.100 U	0.100 U					
BSL-3-0-0.5	'0-0.5	9/20/2001	0.0710 U	0.0710 U	0.0710 U	0.0710 U					
BSL-4-0-1	'0-0.5	9/21/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
BSL-4-4-6	'4-6	9/21/2001	0.140 U	0.140 U	0.140 U	0.140 U					
BSL-5-0-.5	'0-0.5	9/21/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U					
BSL-6-0-1	'0-1	9/26/2001	0.110 U	0.110 U	0.110 U	0.110 U					
BSL-6-1-2	'1-2	9/26/2001	0.130 U	0.130 U	0.130 U	0.130 U					
BSL-7-0-.5	'0-0.5	9/21/2001	0.0980 U	0.0980 U	0.0980 U	0.0980 U					
BSL-8-0-1	'0-1	9/26/2001	0.120 U	0.120 U	0.120 U	0.120 U					
BSL-9-.5-2	'0.5-2	9/21/2001	0.110 U	0.110 U	0.110 U	0.110 U					
BSL-9-0-.5	'0-0.5	9/21/2001	0.0840 U	0.0840 U	0.0840 U	0.0840 U					
BT-B1-0-0.5	'0-0.5	9/18/2001	0.0810 U	0.0810 U	11.4	0.0810 U					
BT-B2-0.5-2	'0.5-2	9/18/2001	0.0790 U	0.0790 U	0.0460 J	0.0790 U					
BT-B2-0-0.5	'0-0.5	9/18/2001	0.0558 J	0.0860 U	23.0	0.0860 U					
BT-B3-0-0.5	'0-0.5	9/18/2001	0.390 U	0.390 U	0.390 U	0.390 U					
BT-B4-0.5-2	'0.5-2	8/30/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 UJ					
BT-B4-0-0.5	'0-0.5	8/30/2001	0.340 U	0.340 U	0.340 U	0.340 UJ					
BT-B5-0-.5	'0-0.5	10/2/2001	0.0810 U	0.0810 U	0.0810 U	0.0810 UJ					
BT-B6-0.5-2	'0.5-2	9/17/2001	0.0880 U	0.0880 U	0.0880 U	0.0880 U					
BT-B6-0-0.5	'0-0.5	9/17/2001	0.340 U	0.340 U	0.340 U	0.340 U					
CF-1-0-0.5	'0-0.5	8/31/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
CF-1-2-4	'2-4	8/31/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
CF-2-0-0.5	'0-0.5	8/28/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U					
CF-3-0.5-2	'0.5-2	8/28/2001	0.130 U	0.130 U	0.130 U	0.130 U					
CF-3-0-0.5	'0-0.5	8/28/2001	0.0198 J	0.0990 U	0.0990 U	0.0990 U					
CF-4-0-0.5	'0-0.5	8/28/2001	0.0870 U	0.0870 U	0.0870 U	0.0870 U					
CF-5-0-0.5	'0-0.5	8/28/2001	0.0700 U	0.0700 U	0.0700 U	0.0700 U					
CF-5-4-6	'4-6	8/28/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
CF-6-0-0.5	'0-0.5	8/28/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
CF-7-0-0.5	'0-0.5	8/28/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
CF-7-4-6	'4-6	8/28/2001	0.0700 U	0.0700 U	0.105	0.0700 UJ					
CF-8-0-0.5	'0-0.5	8/28/2001	0.0770 U	0.0770 U	0.226	0.0770 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 U					
CF-9-0-0.5	'0-0.5	8/31/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
DC-B12-0-0.5	'0-0.5	10/3/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
DC-B12-2-4	'2-4	10/3/2001	0.0730 U	0.0730 U	0.0730 U	0.0730 U					
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.0730 U	0.109	0.192	0.0730 U					
DC-SS11-0-0.5	'0-0.5	9/17/2001	0.370 U	0.370 U	0.370 U	0.370 UJ					
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.350 U	0.350 U	0.350 U	0.350 U					
DC-SS15-0-0.5	'0-0.5	9/17/2001	0.410 U	0.594	0.860	0.410 U					
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.0850 U	0.0850 U	0.0850 U	0.0850 UJ					
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.0740 U	0.0430 J	0.0593 J	0.0740 U					
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.0880 U	0.225	0.106	0.0880 U					
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.0760 U	0.0760 U	0.0404 J	0.0760 U				0.150 JN	
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
DSP-1-0-0.5	'0-0.5	10/3/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U					
DSP-1-4-6	'4-6	11/19/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U					
DSP-2-0-0.5	'0-0.5	9/4/2001	0.0740 U	0.155	0.0740 U	0.0740 UJ					
DSP-3-0-0.5	'0-0.5	9/4/2001	0.380 U	0.620	0.380 U	0.380 UJ					
DSP-3-2-4	'2-4	9/4/2001	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
DSP-4-0-0.5	'0-0.5	9/4/2001	0.0850 U	0.136	0.0850 U	0.0850 UJ					
DSP-4-4-6	'4-6	9/26/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
DUP-01-010824	'0-0.5	8/24/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
DUP-01-010831	'2-4	8/31/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
DUP-01-010904	'0-0.5	9/4/2001	0.370 U	0.370 U	0.370 U	0.370 U					
DUP-01-010905	'8-10	9/5/2001	0.0840 U	0.0840 U	0.0840 U	0.0840 U	1.40 JN				
DUP-01-010906	'0-8	9/6/2001	0.310 U	0.310 U	0.310 U	0.310 U					
DUP-01-010913	'0-0.5	9/13/2001	0.380 U	0.380 U	0.380 U	0.380 U					
DUP-01-010917	'0-0.5	9/17/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
DUP-01-010926	'1-2	9/26/2001	0.130 U	0.130 U	0.130 U	0.130 U					
DUP-01-010927	'4-6	9/27/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
DUP-01-021001	'0-0	10/2/2001	0.0750 U	0.0841	0.0736 J	0.0750 U					
DUP-01-08 2201	'1.5-2	8/22/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
DUP-01-170402	'0-0	4/17/2002	0.180 U	0.180 U	0.180 U	0.180 U					
DUP-02-010913	'0-0.5	9/13/2001	0.430 U	0.430 U	0.430 U	0.430 U					
DUP-02-010921	'0-1	9/21/2001	0.0910 U	0.0910 U	0.0910 U	0.0910 U					
DUP-02-010926	'4-6	9/26/2001	0.0900 U	0.0900 U	0.0900 U	0.0900 UJ					
DUP060807	'0-0	6/8/2007	0.0150 U	0.0150 U	0.0220 U	0.0290 U					
DUP-1-010828	'0-0.5	8/28/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
DUP-1-010921	'0-0.5	9/21/2001	0.100 U	0.100 U	0.100 U	0.100 U					
DUP110606	'15-17	11/6/2006	0.0180 U	0.0180 U	0.0270 U	0.0360 U					
DUP112006	'16-18	11/20/2006	0.0280 U	0.0280 U	0.0420 U	0.0560 U					
DUP112106	'10-12	11/21/2006	0.0290 U	0.0290 U	0.0440 U	0.0590 U					
DUP-120506	'0-4	12/5/2006	0.0440 U	0.0440 U	0.0650 U	0.0870 U					
DUP-120606	'0-4	12/6/2006	0.0150 U	0.0150 U	0.0220 U	0.0410 J					
DUPE071801	'0-0.5	7/18/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
EC-1	'0-1	8/21/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
EC-2	'0-1	8/21/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
EC-3	'0-1	8/21/2001	0.0710 U	0.0710 U	0.0710 U	0.0710 UJ					
EC-4	'0-1	8/21/2001	0.0740 U	0.0740 U	0.0740 UJ	0.0740 U					
EC-5	'0-1	8/21/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
EC-6	'0-1	8/21/2001	0.0820 U	0.0820 U	0.0820 U	0.0820 U					
EC-7	'0-1	8/21/2001	0.0800 U	0.0800 U	0.0414 J	0.0800 UJ					
EC-8	'0-1	8/21/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 UJ					
EC-9	'0-1	8/21/2001	0.0870 U	0.126	0.202	0.125 J					
ESR-1-0-1	'0-0.5	9/4/2001	0.0710 U	0.0710 U	0.0710 U	0.0710 U					
ESR-1-4-6	'4-6	9/4/2001	0.0830 U	0.0830 U	0.0830 U	0.0830 UJ					
HB-101A	'17-17	3/5/2007	0.0160 U	0.0170 U	0.0240 U	0.0330 U					
HB-102A	'0-0	3/13/2007	0.0260 U	0.0260 U	0.0380 U	0.0510 U					
HB-102B	'0-0	3/14/2007	0.0170 U	0.0170 U	0.0260 U	0.0350 U					
HB-102C	'0-0	3/14/2007	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
H-B-103A	'17-17	2/20/2007	0.0230 U	0.0230 U	0.0340 U	0.0450 U					
H-B-104A	'17-17	2/23/2007	0.0180 U	0.0180 U	0.0260 U	0.0350 U					
H-B-104B	'17-17	2/23/2007	0.0160 U	0.0160 U	0.0240 U	0.0330 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007	0.0180 U	0.0180 U	0.0270 U	0.0360 U					
H-B-104D	'17-17	2/27/2007	0.0170 U	0.0170 U	0.0250 U	0.0330 U					
H-B-104E	'17-17	2/27/2007	0.0170 U	0.0170 U	0.0250 U	0.0340 U					
H-B-105C	'17-17	2/8/2007	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
H-B-105D	'17-17	2/8/2007	0.0170 U	0.0180 U	0.0260 U	0.0350 U					
H-B-105E	'0-0	2/8/2007	0.0170 U	0.0170 U	0.0260 U	0.0350 U					
HB-1A	'6.75-6.75	4/18/2002	0.120 U	0.120 U	0.120 U	0.120 U					0.480 JN
HB-3A	'5.25-5.25	4/17/2002	0.210 U	0.210 U	0.210 U	0.210 U					
HB-3B	'4.5-4.5	4/17/2002	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
HB-3C	'4.5-4.5	4/18/2002	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
HB-3D	'4.5-4.5	4/18/2002	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
HB-4A	'5.33-5.33	4/19/2002	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
HB-5A	'3-3	4/22/2002	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
HB-7A	'5-5	4/19/2002	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
HB-8A	'3-3	4/23/2002	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
HB-8B	'4.83-4.83	4/23/2002	0.0790 U	0.0790 U	0.0790 U	0.0790 U					
HB-8C	'5.5-5.5	4/23/2002	0.0820 U	0.0820 U	0.0820 U	0.0820 U	3.30 JN				
HB-9A	'4.75-4.75	4/24/2002	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
HF-B1-0-0.5	'0-0.5	9/10/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
HF-B1-8-10	'8-10	9/10/2001	0.0930 U	0.0930 U	0.0930 U	0.0930 U					
HF-B2-0-0.5	'0-0.5	9/4/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
HF-B2-4-6	'4-6	9/4/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
HF-B3-0-.5	'0-0.5	10/2/2001	0.0740 U	0.0740 U	0.114	0.0740 U					
HF-B3-8-10	'8-10	10/2/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
IB-1-0-2	'0-2	4/8/2002	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
IB-1-4-6	'4-6	4/8/2002	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
IB-2-12-14	'12-14	4/8/2002	0.0840 U	0.0840 U	0.0840 U	0.0840 U					
IB-2-4-6	'4-6	4/8/2002	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
IB-3-4-6	'4-6	4/8/2002	0.0850 U	0.0850 U	0.0850 U	0.0850 U					
IB-3-8-10	'8-10	4/8/2002	0.0890 U	0.0890 U	0.0890 U	0.0890 U					
LB-101-0-1	'0-1	12/6/2006	0.0150 U	0.0150 U	0.0230 U	0.0310 U					
LB-101-1-3	'1-3	12/6/2006	0.0150 U	0.0150 U	0.0220 U	0.0290 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
LB-102-1-3	'3-7	12/6/2006	0.0160 U	0.0160 U	0.0230 U	0.0310 U					
LB-103-0-1	'0-1	12/6/2006	0.0150 U	0.0150 U	0.0230 U	0.0300 U					
LB-103-5-7	'5-7	12/6/2006	0.0180 U	0.0180 U	0.0260 U	0.0474 J					
LHP-101-0-1	'0-1	12/4/2006	0.0790 U	0.0790 U	0.120 U	0.160 UJ					
LHP-101-5-8	'4-8	12/4/2006	0.0560 U	0.0560 U	0.0840 U	0.110 U					
LHP-102-0-1	'0-1	12/5/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
LHP-102-7-9	'7-9	12/5/2006	0.0200 U	0.0200 U	0.0290 U	0.0400 U					
LHP-103-0-1	'0-1	12/5/2006	0.0800 U	0.0800 U	0.120 U	0.160 U					
LHP-103-1-3	'1-3	12/5/2006	0.0170 U	0.0170 U	0.0260 U	0.0350 U					
LHP-104-0-1	'0-1	12/5/2006	0.0150 U	0.0150 U	0.0220 U	0.0300 U					
LHP-104-7-9	'4-8	12/5/2006	0.0170 U	0.0170 U	0.0250 U	0.0330 U					
LHP-105-0-1	'0-1	12/5/2006	0.0740 U	0.0750 U	0.110 U	0.150 U					
LHP-105-1-3	'1-3	12/5/2006	0.0150 U	0.0150 U	0.0220 U	0.0300 U					
LHP-106-0-1	'0-1	12/4/2006	0.0730 U	0.0740 U	0.110 U	0.150 UJ					
LHP-106-1-3	'1-3	12/4/2006	0.0890 U	0.0890 U	0.130 U	0.180 U					
LHP-107-0-1	'0-1	12/5/2006	0.0150 U	0.0150 U	0.0230 U	0.0310 U					
LHP-107-5-7	'4-8	12/5/2006	0.0160 U	0.0160 U	0.0240 U	0.0330 U					
LHP-108-0-1	'0-1	12/6/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
LHP-108-3-7	'3-7	12/6/2006	0.0170 U	0.0170 U	0.0260 U	0.0350 U					
LHP-109-0-1	'0-1	12/6/2006	0.0160 U	0.0160 U	0.0240 U	0.0330 U					
LHP-109-7-9	'7-9	12/6/2006	0.0200 U	0.0200 U	0.0290 U	0.0390 U					
LHP-110-0-1	'0-1	12/4/2006	0.160 U	0.160 U	0.240 U	0.320 UJ					
LHP-111-0-1	'0-1	12/4/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
LHP-112-0-1	'0-1	12/4/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 UJ					
LHP-113-0-1	'0-1	12/4/2006	0.0150 U	0.0150 U	0.0220 U	0.0300 U					
LHP-114-0-1	'0-1	12/4/2006	0.0160 U	0.0160 U	0.0230 U	0.0310 U					
LHP-115-0-1	'0-1	12/4/2006	0.0150 U	0.0150 U	0.0220 U	0.0300 U					
LHP-116-0-1	'0-1	12/4/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
LHP-117-0-1	'0-1	12/4/2006	0.0160 U	0.0170 U	0.0250 U	0.0330 U					
LHP-118-0-1	'0-1	12/4/2006	0.0840 U	0.0840 U	0.130 U	0.170 U					
LHP-119-0-1	'0-1	12/4/2006	0.0160 U	0.0160 U	0.0240 U	0.0330 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006	0.0180 U	0.0180 U	0.0270 U	0.0370 U					
LHP-121-0-1	'0-1	12/6/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
LHP-122-0-1	'0-1	12/6/2006	0.0150 U	0.0150 U	0.0230 U	0.0310 U					
LHP-123-0-1	'0-1	12/4/2006	0.0160 U	0.0160 U	2.02	0.0330 UJ					
LHP-124-.5-2	'0.5-2	10/27/2006	0.0170 U	0.0170 U	0.0250 U	0.0330 U					
LHP-124-10-12	'10-12	10/31/2006	0.0260 U	0.0260 U	0.0390 U	0.0530 U					
LHP-124-2-4	'2-4	10/27/2006	0.0170 U	0.0170 U	0.0250 U	0.0330 U					
LHP-124-28-30	'28-30	10/31/2006	0.0200 U	0.0200 U	0.0290 U	0.0400 U					
LHP-125-.5-2	'0.5-2	10/27/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0180 U	0.0180 U	0.0270 U	0.0370 U					
LHP-125-12-14	'12-14	11/1/2006	0.0160 U	0.0170 U	0.0250 U	0.0330 U					
LHP-125-4-6	'4-6	10/27/2006	0.0160 U	0.0160 U	0.0230 U	0.0320 U					
LHP-126-10.5-12	'10.5-12	11/1/2006	0.0690 UJ	0.0690 UJ	0.100 UJ	0.140 UJ					
LHP-126-14-16	'14-16	11/1/2006	0.0170 U	0.0170 U	0.0250 U	0.0340 U					
LHP-126-2-4	'2-4	10/26/2006	0.0160 U	0.0160 U	0.0230 U	0.0310 UJ					
LHP-126-8-10	'9-10	10/26/2006	0.0180 U	0.0180 U	0.0260 U	0.0350 UJ					
LHP-127-0-1	'0-1	12/6/2006	0.0150 U	0.0150 U	0.0220 U	0.0300 U					
LHP-127-3-5	'3-5	12/6/2006	0.0150 U	0.0150 U	0.0220 U	0.0300 U					
LHP-128-0-1	'0-4	12/6/2006	0.0150 U	0.0150 U	0.0220 U	0.0290 U					
LHP-128-7-8	'17-17	12/6/2006	0.0200 U	0.0200 U	0.0290 U	0.0390 U					
LP-1-0-0.5	'0-0.5	8/27/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
LP-10-0.5-2	'0.5-2	8/27/2001	0.0840 U	0.0840 U	0.0840 U	0.0840 U					
LP-10-0-0.5	'0-0.5	8/27/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
LP-101-11-13	'11-13	11/2/2006	0.0270 U	0.0270 U	0.0390 U	0.0530 U					
LP-101-14-16	'14-16	11/2/2006	0.0230 U	0.0230 U	0.0340 U	0.0460 U					
LP-101-26-28	'26-28	11/2/2006	0.0170 U	0.0170 U	0.0250 U	0.0330 U					
LP-101-50-52	'50-52	11/2/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
LP-11-0-0.5	'0-0.5	8/27/2001	0.0840 U	0.0840 U	0.0840 U	0.0840 U					
LP-12-0-0.5	'0-0.5	8/27/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
LP-12-4-6	'4-6	8/27/2001	0.0730 U	0.0730 U	0.0730 U	0.0730 U					
LP-13-0-0.5	'0-0.5	8/24/2001	0.0840 U	0.0840 U	0.0840 U	0.0840 U					
LP-14-0.5-2	'0.5-2	8/24/2001	0.0710 U	0.0710 U	0.0710 U	0.0710 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001	0.370 U	0.370 U	0.370 U	0.370 U					
LP-15-0-0.5	'0-0.5	8/24/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
LP-16-0.5-2	'0.5-2	8/27/2001	0.360 U	0.360 U	0.360 U	0.360 U					
LP-16-0-0.5	'0-0.5	8/27/2001	0.0770 U	0.113	0.0770 U	0.0770 U					
LP-2-0.5-2	'0.5-2	8/28/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					
LP-2-0-0.5	'0-0.5	8/28/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 UJ					
LP-3-0-0.5	'0-0.5	8/27/2001	0.0710 U	0.0710 U	0.0710 U	0.0710 U					
LP-4 .5-2	'0.5-2	8/21/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 UJ					
LP-4 0-.5	'0-0.5	8/21/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
LP-5-0-0.5	'0-0.5	8/27/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
LP-6-0-0.5	'0-0.5	8/27/2001	0.0730 U	0.104	0.0730 U	0.0730 U					
LP-6-4-6	'4-6	8/27/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 UJ					
LP-7-0-0.5	'0-0.5	8/24/2001	0.0780 U	0.0552 J	0.0448 J	0.0780 U					
LP-8-0-0.5	'0-0.5	8/24/2001	0.0810 U	0.0810 U	0.0810 U	0.0810 U					
LP-8-10-12	'10-12	8/24/2001	0.110 U	0.110 U	0.110 U	0.110 U					
LP-9-0-0.5	'0-0.5	8/24/2001	0.370 U	0.370 U	0.370 U	0.370 U					
MW-11D-12-14	'12-14	12/14/2006	0.0250 U	0.0250 U	0.0380 U	0.0510 U	0.660 JN				
MW-11D-14-16	'14-16	12/14/2006	0.0170 U	0.0170 U	0.0250 U	0.0340 U					
MW-11D-16-18	'16-18	12/14/2006	0.0170 U	0.0170 U	0.0250 U	0.0340 U					
MW-14D-13-15	'13-15	11/14/2006	0.0180 U	0.0180 U	0.0270 U	0.0370 U					
MW-14D-17-19	'17-19	11/14/2006	0.0170 U	0.0170 U	0.0250 U	0.0340 U					
MW-16D-13-15	'13-15	11/17/2006	0.0160 U	0.0160 U	0.0240 U	0.0330 U					
MW-16D-17-19	'17-19	11/20/2006	0.0170 U	0.0170 U	0.0250 U	0.0330 U					
MW-17D-15-17	'15-17	11/10/2006	0.0180 U	0.0180 U	0.0270 U	0.0360 U					
MW-17D-17-19	'17-19	11/10/2006	0.0170 U	0.0170 U	0.0250 U	0.0330 U					
MW-18D-13-15	'13-15	11/13/2006	0.0180 U	0.0180 U	0.0270 U	0.0360 U					
MW-18D-17-19	'17-19	11/13/2006	0.0160 U	0.0160 U	0.0240 U	0.0330 U					
MW-20D-12-14	'12-14	11/9/2006	0.0170 U	0.0170 U	0.0260 U	0.0350 U					
MW-20D-32-34	'32-32.9	11/10/2006	0.0160 U	0.0160 U	0.0240 U	0.0330 U					
MW-20D-36-38	'36-38	11/10/2006	0.0170 U	0.0170 U	0.0250 U	0.0330 U					
MW-21D-13-15	'13-13.7	11/16/2006	0.0180 U	0.0180 U	0.0260 U	0.0350 U					
MW-21D-15-17	'15-17	11/16/2006	0.0170 U	0.0170 U	0.0250 U	0.0340 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006	0.0180 U	0.0180 U	0.0260 U	0.0350 U					
MW-23D-37-39	'37-37.9	11/15/2006	0.0160 U	0.0160 U	0.0240 U	0.0330 U					
MW-25D-10-12	'10-12	11/21/2006	0.0300 U	0.0300 U	0.0450 U	0.0600 U					
MW-25D-33-35	'33-35	12/18/2006	0.0180 U	0.0180 U	0.0270 U	0.0360 U					
MW-26S-8-10	'8-10	10/26/2006	0.0190 U	0.0190 U	0.0280 UJ	0.0380 UJ					
MW-6D-0-2	'0-2	11/8/2006	0.0160 U	0.0160 U	0.0240 U	0.0320 U					
MW-6D-12-14	'12-14	11/8/2006	0.0380 U	0.0380 U	0.0560 U	0.614					
MW-6D-16-18	'16-18	11/20/2006	0.0260 U	0.0260 U	0.0390 U	0.0530 U					
MW-6D-30-32	'30-32	11/21/2006	0.0170 U	0.0170 U	0.0250 U	0.0340 U					
PCA-1-0-.5	'0-2	7/17/2001	0.360 U	0.360 U	0.360 U	0.360 U					
PCA-1-4-6	'4-6	7/17/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
PCA-2-0-.5	'0-0.5	7/17/2001	0.0730 U	0.349	0.0730 U	0.0730 U					
PCA-3-0-0.5	'0-0.5	9/13/2001	0.160 U	0.140 J	0.160 U	0.160 U					
PCA-3-4-6	'4-6	9/13/2001	0.0850 U	0.0850 U	0.0850 U	0.0850 U					
PCA-4-0-0.5	'0-0.5	9/13/2001	0.380 U	0.380 U	0.380 U	0.380 U					
PCA-4-4-6	'4-6	9/26/2001	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
PCA-5-0.5-2	'0.5-2	9/7/2001	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
PCA-5-0-0.5	'0-0.5	9/7/2001	0.0850 U	0.0850 U	0.0872	0.0850 U					
PCA-6-0-0.5	'0-0.5	9/7/2001	0.0710 U	0.445	0.106	0.0710 UJ					
RR-1 0-0.5	'0-0.5	8/22/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
RR-1 14-16	'14-16	8/22/2001	0.428	0.0820 U	0.0820 U	0.0820 U	2.90 JN				
RR-10 0-.5	'0-0.5	10/12/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
RR-11 0-.5	'0-0.5	10/12/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
RR-12 0-.5	'0-0.5	10/12/2001	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
RR-2-0-0.5	'0-0.5	9/13/2001	0.420 U	0.420 U	0.420 U	0.420 U					
RR-2-8-10	'8-10	9/13/2001	0.0990 U	0.0990 U	0.0990 U	0.0990 U					
RR-3-0-0.5	'0-0.5	9/13/2001	0.0720 U	0.0804	0.0720 U	0.0720 U					
RR-4-0-0.5	'0-0.5	9/10/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 UJ					
RR-4-6-8	'6-8	9/13/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 U					
RR-5-0-0.5	'0-0.5	9/10/2001	0.0690 U	0.0690 U	0.0690 U	0.0690 U					
RR-6-0-0.5	'0-0.5	9/10/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 U					
RR-6-8-10	'8-10	9/10/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001	0.0760 U	0.0760 U	0.0760 U	0.0760 UJ					
RR-8-0-0.5	'0-0.5	9/26/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
RR-8-6-8	'6-8	9/26/2001	0.140 U	0.140 U	0.140 U	0.140 U					
RR-9 0-.5	'0-0.5	10/12/2001	0.0730 U	0.0730 U	0.0730 U	0.0730 U					
SC-1	'0-1	8/21/2001	0.0900 U	0.0900 U	0.158	0.0900 UJ					
SC-2	'0-1	8/22/2001	0.0700 U	0.0700 U	0.0700 U	0.0700 U					
SC-3	'0-1	8/22/2001	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.0770 U	0.0770 U	0.0770 U	0.0770 UJ					
SILO-B1-6-8	'6-8	9/6/2001	0.300 U	0.300 U	0.300 U	0.300 U					
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.360 U	1.16	0.360 U	0.360 U					
SILO-B3-0-0.5	'0-0.5	9/6/2001	0.410 U	0.410 U	0.410 U	0.410 UJ					
SILO-B3-6-8	'6-8	9/6/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
SILO-B4-0-0.5	'0-0.5	9/6/2001	0.420 U	2.87	0.420 U	0.420 UJ					
SPR-1-0-0.5	'0-0.5	9/5/2001	0.380 U	0.380 U	0.380 U	0.380 U					
SPR-1-8-10	'8-10	9/5/2001	0.100 U	0.100 U	0.100 U	0.100 U					
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.0750 U	0.0750 U	0.0620 J	0.0750 U					
SPR-2A-8-10	'8-10	7/19/2001	0.0880 U	0.0880 U	0.0880 U	0.0880 U					
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 U					
SPR-2B-10-12	'10-12	7/19/2001	0.100 U	0.100 U	0.100 U	0.100 U					
SPR-3 0-.5	'0-0.5	8/21/2001	0.0720 U	0.833	0.0720 U	0.0720 U					
SPR-3 4-6	'4-6	8/21/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.0810 U	0.0810 U	0.0810 U	0.0810 U					
SPR-4A-8-10	'8-10	7/19/2001	0.110 U	0.110 U	0.110 U	0.110 U			0.580 JN		
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
SPR-4B-4-6	'4-6	8/23/2001	0.0800 U	0.0800 U	0.0800 U	0.0800 U					
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.370 U	0.370 U	0.370 U	0.370 U					
SPR-4C-4-6	'4-6	8/23/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
SPR-5-0-0.5	'0-0.5	9/5/2001	2.10 U	2.10 U	2.10 U	2.10 U					
SPR-5-2-4	'2-4	9/5/2001	0.0860 U	0.0860 U	0.0860 U	0.0860 U					
SPR-6-0.5-2	'0.5-2	9/13/2001	0.0750 U	0.0750 U	0.0750 U	0.0750 U					
SPR-6-0-0.5	'0-0.5	9/13/2001	0.0680 U	0.0680 U	0.0680 U	0.0680 U					
SR-1-0-.5	'0-0.5	7/17/2001	0.0710 U	0.448	0.0561 J	0.0710 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001	0.0680 U	1.47	0.203	0.0680 U					
ST-1-0-0.5	'0-0.5	9/5/2001	0.400 U	0.400 U	0.400 U	0.400 U					
ST-2-0-0.5	'0-0.5	9/5/2001	0.400 U	0.400 U	0.400 U	0.400 U					
ST-3-0-0.5	'0-0.5	9/4/2001	0.0790 U	0.0790 U	0.0790 U	0.0790 U					
ST-3-4-6	'4-6	9/4/2001	0.100 U	0.100 U	0.100 U	0.100 U					
TES-1-0-1	'0-1	12/5/2006	0.0820 U	0.0820 U	0.120 U	0.160 U					
TES-2-0-1	'0-1	12/4/2006	0.180 U	0.180 U	0.260 U	0.350 UJ					
TES-3-0-1	'0-1	12/4/2006	0.0880 U	4.34	0.130 U	0.180 U					
TES-4-0-1	'0-1	12/5/2006	0.0160 U	0.0160 U	0.0230 U	0.0310 U					
TLN-1 .5-2	'0.5-2	8/20/2001	0.0840 U	0.0840 U	0.0840 U	0.0840 U					
TLN-1 0-.5	'0-0.5	8/20/2001	0.0830 U	0.0830 U	0.0830 U	0.0830 U					
TLN-2-0-0.5	'0-0.5	7/19/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
TLN-3-0-.5	'0-0.5	7/17/2001	0.340 U	0.340 U	0.340 U	0.340 U					
TLN-3-2-4	'2-4	7/17/2001	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
TLN-4 0-.5	'0-0.5	8/20/2001	0.0690 U	0.0690 U	0.0690 U	0.0690 U					
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.0730 U	0.0742	0.0623 J	0.0730 U					
TLN-5 .5-2	'0.5-2	8/20/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 U					
TLN-5 0-.5	'0-0.5	8/20/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 U					
TLN-5-4-6	'4-6	8/30/2001	0.0730 U	0.0730 U	0.0730 U	0.0730 U					
TLN-6 0-.5	'0-0.5	8/20/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 U					
TLS-10 0-.5	'0-0.5	8/21/2001	0.0780 U	0.0780 U	0.0780 U	0.0780 U					
TLS-10 8-10	'8-10	8/21/2001	0.0970 U	0.0970 U	0.0970 U	0.0970 U					
TLS-1-0-0.5	'0-0.5	9/5/2001	0.390 U	0.390 U	0.390 U	0.390 U					
TLS-11-0-0.5	'0-0.5	9/7/2001	0.0750 U	0.0652 J	0.0750 U	0.0750 UJ					
TLS-2-0-0.5	'0-0.5	9/7/2001	0.370 U	0.370 U	0.370 U	0.370 UJ					
TLS-2-6-8	'6-8	9/7/2001	0.120 U	0.120 U	0.120 U	0.120 U					
TLS-3 0-.5	'0-0.5	8/21/2001	0.0740 U	0.0740 U	0.0740 U	0.0740 U					
TLS-4-0-0.5	'0-0.5	9/7/2001	0.0730 U	0.0550 J	0.530	0.0730 U					
TLS-4-8-10	'8-10	9/7/2001	0.110 U	0.110 U	0.110 U	0.110 U					
TLS-5 0-0.5	'0-0.5	8/21/2001	0.0710 U	0.0804	0.0710 U	0.0710 U		0.980 JN			
TLS-5-8-10	'8-10	9/26/2001	0.100 U	0.100 U	0.100 U	0.100 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Dodecanamide, N,n-Bis(2-Hydroxyethyl)-	Ethanol, 2-(hexadecyloxy)-	Ethanone, 1-(2-Hydroxyphenyl)-	Ethanone, 1-(4-Hydroxy-3,5-Dimethoxyphen
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001	0.0900 U	0.242	0.352	0.0900 U					
TLS-6-3-5	'3-5	9/26/2001	8.90 U	8.90 U	8.90 U	8.90 UJ					
TLS-7 0-.5	'0-0.5	8/21/2001	0.0990 U	0.0990 U	0.0990 U	0.0990 U					
TLS-8-0-0.5	'0-0.5	9/7/2001	0.0760 U	0.0601 J	0.0423 J	0.0760 U					
TLS-8-6-8	'6-8	9/7/2001	0.0870 U	0.0870 U	0.0870 U	0.0870 U					
TLS-9 0-.5	'0-0.5	8/21/2001	0.360 U	0.360 U	0.360 U	0.360 UJ					
TP-105	'0-0	6/8/2007	0.0140 U	0.0140 U	0.0210 U	0.0290 U					
TP-105A	'0-0	6/8/2007	0.0140 U	0.0140 U	0.0210 U	0.0280 U					
TP-106-A	'0-0	6/8/2007	0.0150 U	0.0150 U	0.0220 U	0.0290 U					
TP-106-B	'0-0	6/8/2007	0.0140 U	0.0140 U	0.0210 U	0.0290 U					
WWT-1-0-0.5	'0-0.5	7/19/2001	0.390 U	0.390 U	0.390 U	0.390 UJ					
WWT-101-15-17	'15-17	11/6/2006	0.0180 U	0.0180 U	0.0260 U	0.0360 U					
WWT-101-21-23	'21-23	11/6/2006	0.0170 U	0.0170 U	0.0250 U	0.0340 U					
WWT-1-12-14	'12-14	8/23/2001	5.20 U	5.20 U	5.20 U	5.20 U	70.0 JN				
WWT-2-0-0.5	'0-0.5	8/23/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 UJ					
WWT-2-12-14	'12-14	8/23/2001	0.250 U	0.250 U	0.250 U	0.250 UJ					
WWT-3-0-0.5	'0-0.5	8/23/2001	0.360 U	0.360 U	0.360 U	0.360 U					
WWT-3-12-14	'12-14	8/23/2001	0.160 U	0.160 U	0.160 U	0.160 U					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS				24000	24000		1	25
12K-B1-0.5-2	'0.5-2	9/6/2001		0.0850 U	0.0850 U		0.0850 U	0.0850 U
12K-B1-0-0.5	'0-0.5	9/6/2001		0.0812	0.0790 U		1.2200	0.0790 U
12K-B2-0.5-2	'0.5-2	9/6/2001		0.0790 U	0.0790 U		0.0790 U	0.0790 U
12K-B2-0-0.5	'0-0.5	9/6/2001		0.0797 J	0.0810 U		1.9000	0.0810 U
150K-1-0.5-2	'0.5-2	9/10/2001		0.4230	0.0883		0.0770 U	0.0770 U
150K-1-0-0.5	'0-0.5	9/10/2001		1.5400	0.7840		0.4000 U	0.4000 U
230-B1-0.5	'0-0.5	10/2/2001		2.3700	0.0898		0.0501 J	0.0790 U
230-B10-0-0.5	'0-0.5	8/30/2001		0.6460	0.0990 U		0.7020	0.0990 U
230-B10-1.5-2	'1.5-2	8/30/2001		1.8400	0.2060		0.0860 U	0.0860 U
230-B11-0-0.5	'0-0.5	8/30/2001		0.2380	0.0720 U		0.1600	0.0720 U
230-B11-1.5-2	'1.5-2	8/30/2001		1.1200	0.0423 J		0.0720 U	0.0720 U
230-B1-4-6	'4-6	10/2/2001		0.3900 U	0.3900 U		0.3900 U	0.3900 U
230-B2-0-0.5	'0-0.5	8/30/2001		0.0494 J	0.0800 U		0.2970	0.0800 U
230-B2-1.5-2	'1.5-2	8/30/2001		0.2920	0.0929		0.0720 U	0.0720 U
230-B3-0-0.5	'0-0.5	8/30/2001		0.0760 U	0.0760 U		0.0259 J	0.0760 U
230-B3-1.5-2	'1.5-2	8/30/2001		1.14	0.262		0.0780 U	0.0780 U
230-B4-0-0.5	'0-0.5	8/30/2001		0.263	0.0303 J		0.0800 U	0.0800 U
230-B4-1.5-2	'1.5-2	8/30/2001		1.24	0.100		0.0760 U	0.0760 U
230-B5-0-0.5	'0-0.5	9/13/2001		0.370	0.0432 J		0.0398 J	0.0800 U
230-B5-1.5-2	'1.5-2	9/13/2001		0.453	0.180		0.0750 U	0.0750 U
230-B6 0-0.5	'0-0.5	8/22/2001		0.190	0.0760 U		0.0760 U	0.0760 U
230-B6 1.5-2	'1.5-2	8/22/2001		0.0428 J	0.0760 U		0.0760 U	0.0760 U
230-B7 0-0.5	'0-0.5	8/22/2001		0.0847	0.0810 U		0.0810 U	0.0810 U
230-B7 1.5-2	'1.5-2	8/22/2001		0.0694 J	0.0820 U		0.0820 U	0.0820 U
230-B8 1.5-2	'1.5-2	8/22/2001		0.419	0.588		0.0830 U	0.0830 U
230-B9 0-0.5	'0-0.5	8/22/2001		0.357	0.0710 U		0.0710 U	0.0710 U
230-B9 0-0.5	'0-0.5	8/22/2001		0.0412 J	0.0770 U		0.0770 U	0.0770 U
230-B9 1.5-2	'1.5-2	8/22/2001		0.0750 U	0.0750 U		0.0750 U	0.0750 U
231-B1-0-0.5	'0-0.5	10/5/2001		0.0750 U	0.0750 U		1.65	1.19
231-B10-0-0.5	'0-0.5	9/17/2001		0.0830 U	0.0830 U		0.0657 J	0.0830 U
231-B11-0-0.5	'0-0.5	9/19/2001		0.0627 J	0.0940 U		8.53	0.0940 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B11-8-10	'8-10	9/19/2001		0.0696 J	0.0850 U		0.188	0.0850 U
231-B12-0-0.5	'0-0.5	9/17/2001		0.0466 J	0.0750 U		0.0731 J	0.0750 U
231-B13-0-0.5	'0-0.5	9/19/2001		0.390 U	0.390 U		1,440	0.628
231-B13-8-10	'9-10	9/27/2001		0.0739 J	0.0299 J		0.669	0.0770 U
231-B14-0-0.5	'0-0.5	9/19/2001		0.0440 J	0.0820 U		0.0669 J	0.0820 U
231-B2-0.5-2	'0.5-2	8/22/2001		0.522	0.0182 J		6.76	95.9
231-B2-0-0.5	'0-0.5	8/22/2001		0.0683 J	0.0740 U		6.20	25.4
231-B3-0-0.5	'0-0.5	8/22/2001		0.0824	0.0770 U		0.552	21.0
231-B4-0-0.5	'0-0.5	8/30/2001		0.0290 J	0.0770 U		0.0260 J	0.124
231-B4-6-8	'6-8	9/27/2001		0.0438 J	0.0800 U		0.0800 U	1.37
231-B5-0.5-2	'0.5-2	9/19/2001		0.820	0.193		0.135	0.0840 U
231-B6-0-0.5	'0-0.5	9/27/2001		0.129	0.0743 J		1.53	6.54
231-B6-4-6	'4-6	9/27/2001		0.167	0.0750 U		6.69	0.134
231-B7-0-0.5	'0-0.5	9/13/2001		0.258 J	0.410 U		1.33	0.410 U
231-B8-0-0.5	'0-0.5	9/27/2001		0.501 J	0.160 UJ		5.64 J	0.691 J
231-B8-8-10	'8-10	9/27/2001		2.81 J	6.50 U		6.50 U	233.
231-B9-0.5-2	'0.5-2	9/27/2001		0.198	0.0940 U		0.0547 J	0.0940 U
231-B9-0-0.5	'0-0.5	9/27/2001		0.438 J	0.470 U		13.3	0.470 U
240-1-0-0.5	'0-0.5	9/26/2001		0.726	0.0897		0.118	0.0810 U
240-1-8-10	'8-10	10/1/2001		0.0810 U	0.0810 U		0.0810 U	0.0810 U
5K-B1-0-0.5	'0-0.5	10/1/2001		0.153 J	0.410 U		0.410 U	0.410 U
5K-B2-0-0.5	'0-0.5	8/31/2001		0.0710 U	0.0710 U		0.0835	0.0710 U
5K-B2-8-10	'8-10	8/31/2001		0.700	0.181		0.0820 U	0.0820 U
5K-B3-0-0.5	'0-0.5	9/26/2001		0.0579 J	0.0800 U		0.0840	0.0800 U
5K-B4-0-0.5	'0-0.5	10/1/2001		0.460 U	0.460 U		0.282 J	0.460 U
5K-B4-4-6	'4-6	10/1/2001		0.710	1.79		0.550 U	0.550 U
5K-B5-0-0.5	'0-0.5	8/31/2001		5.59	0.707		0.0780 U	0.0780 U
5K-B5-4-6	'4-6	9/26/2001		0.819	0.0802 J		0.127	0.0870 U
AB-1-0-0.5	'0-0.5	9/4/2001		0.452	0.0780 U		1.40	0.536
AB-2-0.5-2	'0.5-2	9/4/2001		0.307	0.0870 U		24.8	1.09
AB-2-0-0.5	'0-0.5	9/4/2001		0.161	0.0810 U		3.64	0.198
ADN-1-0-0.5	'0-0.5	9/5/2001		0.844	0.464		0.206	0.0760 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADN-1-8-10	'8-10	9/5/2001		2.00	2.42		0.0960 U	0.0960 U
ADN-2-0-0.5	'0-0.5	9/5/2001		0.0354 J	0.0820 U		0.0820 U	0.0820 U
ADN-2-10-11	'10-11	9/27/2001		0.0800 U	0.0800 U		0.0800 U	0.0800 U
ADS-1-0-.5	'0-0.5	7/17/2001		0.548	0.370 U		0.370 U	0.370 U
ADS-10-0-0.5	'0-2	7/18/2001		0.538	0.0770 U		0.0770 U	0.0770 U
ADS-101-0-1	'0-1	12/5/2006		0.0577 J	0.0160 U		0.0417 J	0.0260 U
ADS-101-1-3	'1-3	12/5/2006		0.0130 U	0.0150 U		0.0220 U	0.0250 U
ADS-102-0-1.5	'0-2	12/5/2006		0.117	0.0536 J		0.0220 U	0.0250 U
ADS-102-7-8	'4-8	12/5/2006		0.0140 U	0.0160 U		0.0230 U	0.0270 U
ADS-10-4-6	'4-6	7/18/2001		0.0564 J	0.0950 U		0.0950 U	0.0950 U
ADS-11-0-0.5	'0-2	7/18/2001		1.85	0.0760 U		0.0760 U	0.0760 U
ADS-12-0.5-2	'0.5-2	7/18/2001		0.0717 J	0.0870 U		0.0870 U	0.0870 U
ADS-12-0-0.5	'0-0.5	7/18/2001		0.0972	0.0850 U		0.0850 U	0.0850 U
ADS-2-0-0.5	'0-0.5	7/18/2001		0.0800 U	0.0800 U		0.0800 U	0.0800 U
ADS-2-4-6	'4-6	7/18/2001		0.0810 U	0.0810 U		0.0810 U	0.0810 U
ADS-3-0-0.5	'0-0.5	7/18/2001		0.0970	0.0780 U		0.123	0.0780 U
ADS-4-0-0.5	'0-2	7/18/2001		0.493	0.0770 U		0.241	0.0770 U
ADS-4-12-14	'12-14	7/18/2001		0.843	0.975		0.0850 U	0.0850 U
ADS-5-0-0.5	'0-0.5	7/18/2001		0.360 U	0.360 U		0.360 U	0.360 U
ADS-5-4-6	'4-6	9/27/2001		0.0191 J	0.0740 U		0.0740 U	0.0740 U
ADS-6-0.5-2	'0.5-2	7/18/2001		0.585	0.0802		10.5	0.338
ADS-6-0-0.5	'0-0.5	7/18/2001		0.250 J	0.380 U	0.870 JN	0.821	0.380 U
ADS-7-0-.5	'0-0.5	7/17/2001		2.25	0.360 U		0.360 U	0.360 U
ADS-8-0-0.5	'0-0.5	7/18/2001		0.0878	0.0820 U		0.188	0.0820 U
ADS-8-4-6	'4-6	7/18/2001		0.0511 J	0.0830 U		0.116	0.0830 U
ADS-9-0-0.5	'0-0.5	7/18/2001		0.145	0.0860 U		0.0860 U	0.0860 U
BLIND DUP	'0-0	8/21/2001		0.314	0.0710 U		0.0710 U	0.0710 U
BSL-10-0-1	'0-1	9/21/2001		0.0990 U	0.0990 U		0.0433 J	0.0990 U
BSL-1-0-1	'0-1	9/20/2001		0.344	0.0790 U		0.0790 U	0.0790 U
BSL-11-0-1	'0-1	9/26/2001		0.0354 J	0.0960 U		0.0960 U	0.0960 U
BSL-12-0-1	'0-1	9/26/2001		0.0760 U	0.0760 U		0.0760 U	0.0760 U
BSL-1-4-6	'4-6	9/20/2001		0.0980 U	0.0980 U		0.0980 U	0.0980 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-2-0-1	'0-1	9/21/2001		0.267	0.100 U		0.100 U	0.100 U
BSL-3-0-0.5	'0-0.5	9/20/2001		0.0710 U	0.0710 U		0.0710 U	0.0710 U
BSL-4-0-1	'0-0.5	9/21/2001		0.0277 J	0.0860 U		0.0860 U	0.0860 U
BSL-4-4-6	'4-6	9/21/2001		0.140 U	0.140 U		0.140 U	0.140 U
BSL-5-0-.5	'0-0.5	9/21/2001		0.0820 U	0.0820 U		0.0820 U	0.0820 U
BSL-6-0-1	'0-1	9/26/2001		0.280	0.110 U		0.110 U	0.110 U
BSL-6-1-2	'1-2	9/26/2001		0.0446 J	0.130 U		0.130 U	0.130 U
BSL-7-0-.5	'0-0.5	9/21/2001		0.0980 U	0.0980 U		0.0980 U	0.0980 U
BSL-8-0-1	'0-1	9/26/2001		0.0685 J	0.120 U		0.120 U	0.120 U
BSL-9-.5-2	'0.5-2	9/21/2001		0.110 U	0.110 U		0.110 U	0.110 U
BSL-9-0-.5	'0-0.5	9/21/2001		0.0840 U	0.0840 U		0.0840 U	0.0840 U
BT-B1-0-0.5	'0-0.5	9/18/2001		0.0601 J	0.0810 U		0.0926	0.0734 J
BT-B2-0.5-2	'0.5-2	9/18/2001		0.0586 J	0.0790 U		0.143	0.0432 J
BT-B2-0-0.5	'0-0.5	9/18/2001		0.0860 U	0.0860 U		0.740	0.129
BT-B3-0-0.5	'0-0.5	9/18/2001		0.0909 J	0.390 U		184.	0.390 U
BT-B4-0.5-2	'0.5-2	8/30/2001		0.155	0.0760 J		0.784	0.0770 U
BT-B4-0-0.5	'0-0.5	8/30/2001		0.340 U	0.340 U		0.340 U	0.340 U
BT-B5-0-.5	'0-0.5	10/2/2001		0.195	0.0390 J		0.830	0.0810 U
BT-B6-0.5-2	'0.5-2	9/17/2001		0.399	0.0880 U		1.83	0.0880 U
BT-B6-0-0.5	'0-0.5	9/17/2001		0.340 U	0.340 U		12.8	0.340 U
CF-1-0-0.5	'0-0.5	8/31/2001		0.0482 J	0.0740 U		0.0740 U	0.0740 U
CF-1-2-4	'2-4	8/31/2001		0.706	0.201		0.0740 U	0.0740 U
CF-2-0-0.5	'0-0.5	8/28/2001		0.158	0.0820 U		0.120	0.875
CF-3-0.5-2	'0.5-2	8/28/2001		0.130 U	0.130 U		0.130 U	0.0887 J
CF-3-0-0.5	'0-0.5	8/28/2001		0.386	0.0269 J		0.0990 U	0.0927 J
CF-4-0-0.5	'0-0.5	8/28/2001		0.458	0.0870 U		0.141	0.0870 U
CF-5-0-0.5	'0-0.5	8/28/2001		0.0700 U	0.0700 U		0.0700 U	0.0700 U
CF-5-4-6	'4-6	8/28/2001		0.133	0.0750 U		0.0750 U	1.26
CF-6-0-0.5	'0-0.5	8/28/2001		0.198	0.0770 U		0.0770 U	0.0770 U
CF-7-0-0.5	'0-0.5	8/28/2001		0.159	0.0750 U		0.0423 J	0.481
CF-7-4-6	'4-6	8/28/2001		0.419	0.0385 J		0.446	0.0732
CF-8-0-0.5	'0-0.5	8/28/2001		0.511	0.0596 J		0.0524 J	0.593

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CF-9-0.5-2	'0.5-2	8/31/2001		0.0363 J	0.0720 U		0.0720 U	0.0720 U
CF-9-0-0.5	'0-0.5	8/31/2001		0.0786	0.0740 U		0.0740 U	0.0740 U
DC-B12-0-0.5	'0-0.5	10/3/2001		0.226	0.0397 J		0.0648 J	0.0760 U
DC-B12-2-4	'2-4	10/3/2001		0.239	0.0730 U		0.0474 J	0.0730 U
DC-SS1-0-0.5	'0-0.5	9/18/2001		1.33	0.0730 U		4.30	0.0730 U
DC-SS11-0-0.5	'0-0.5	9/17/2001		34.1	17.3		0.370 U	0.370 U
DC-SS13-0-0.5	'0-0.5	9/17/2001		0.275 J	0.350 U		0.589	0.350 U
DC-SS15-0-0.5	'0-0.5	9/17/2001		11.4	1.10		1.64	0.410 U
DC-SS17-0-0.5	'0-0.5	9/17/2001		14.9	1.08		0.409	0.0850 U
DC-SS2-0-0.5	'0-0.5	9/17/2001		0.0731 J	0.0740 U		2.30	0.0740 U
DC-SS3-0-0.5	'0-0.5	9/17/2001		0.126	0.0880 U		0.497	0.0880 U
DC-SS6-0-0.5	'0-0.5	9/17/2001		0.152	0.0750 U		0.834	0.0354 J
DC-SS7-0-0.5	'0-0.5	9/17/2001		0.0850	0.0760 U		0.231	0.0760 U
DC-SS9-0-0.5	'0-0.5	9/17/2001		0.674	0.217		0.156	0.116
DSP-1-0-0.5	'0-0.5	10/3/2001		0.0546 J	0.0820 U		0.0792 J	0.0820 U
DSP-1-4-6	'4-6	11/19/2001		0.0820 U	0.0820 U		0.0820 U	0.0820 U
DSP-2-0-0.5	'0-0.5	9/4/2001		0.0813	0.0740 U		0.694	0.0740 U
DSP-3-0-0.5	'0-0.5	9/4/2001		0.380 U	0.380 U		0.380 U	0.380 U
DSP-3-2-4	'2-4	9/4/2001		0.0228 J	0.0830 U		0.0830 U	0.0830 U
DSP-4-0-0.5	'0-0.5	9/4/2001		0.0644 J	0.0850 U		0.0357 J	0.0850 U
DSP-4-4-6	'4-6	9/26/2001		0.0346 J	0.0860 U		0.0860 U	0.0860 U
DUP-01-010824	'0-0.5	8/24/2001		0.745	0.278		0.0770 U	0.0770 U
DUP-01-010831	'2-4	8/31/2001		0.663	0.260		0.0750 U	0.0750 U
DUP-01-010904	'0-0.5	9/4/2001		0.271 J	0.370 U		0.370 U	0.370 U
DUP-01-010905	'8-10	9/5/2001		6.05	6.79		0.0840 U	0.0840 U
DUP-01-010906	'0-8	9/6/2001		136.	145.		0.310 U	0.310 U
DUP-01-010913	'0-0.5	9/13/2001		0.102 J	0.380 U		1.63	0.380 U
DUP-01-010917	'0-0.5	9/17/2001		0.690	0.242		0.211	0.127
DUP-01-010926	'1-2	9/26/2001		0.244	0.130 U		0.130 U	0.130 U
DUP-01-010927	'4-6	9/27/2001		0.0740 U	0.0740 U		0.0740 U	0.0740 U
DUP-01-021001	'0-0	10/2/2001		0.481	0.0410 J		0.943	0.0284 J
DUP-01-08 2201	'1.5-2	8/22/2001		0.0983	0.0800 U		0.0800 U	0.0800 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DUP-01-121001	'0-0	10/12/2001		0.245	0.0770 U		0.0770 U	0.0770 U
DUP-01-170402	'0-0	4/17/2002		2.03	1.45		0.180 U	0.180 U
DUP-02-010913	'0-0.5	9/13/2001		0.369 J	0.430 U		2.16	0.430 U
DUP-02-010921	'0-1	9/21/2001		0.0910 U	0.0910 U		0.0910 U	0.0910 U
DUP-02-010926	'4-6	9/26/2001		0.340	0.0542 J		0.0574 J	0.0900 U
DUP060807	'0-0	6/8/2007		0.0382 J	0.0140 U		0.0200 U	0.0230 U
DUP-1-010828	'0-0.5	8/28/2001		0.106	0.0770 U		0.0770 U	0.0770 U
DUP-1-010921	'0-0.5	9/21/2001		0.100 U	0.100 U		0.100 U	0.100 U
DUP110606	'15-17	11/6/2006		0.0150 U	0.0170 U		0.0240 U	0.0280 U
DUP112006	'16-18	11/20/2006		0.0230 U	0.0260 U		0.0380 U	0.0430 U
DUP112106	'10-12	11/21/2006		0.0240 U	0.0270 U		0.0390 U	0.0450 U
DUP-120506	'0-4	12/5/2006		0.157 J	0.0410 U		0.0590 U	0.0670 U
DUP-120606	'0-4	12/6/2006		0.849	0.0140 U		0.0200 U	0.0230 U
DUPE071801	'0-0.5	7/18/2001		0.0412 J	0.0740 U		0.0740 U	0.0740 U
EC-1	'0-1	8/21/2001		0.0715 J	0.0760 U		0.0760 U	0.0760 U
EC-2	'0-1	8/21/2001		0.548	0.0207 J		0.0750 U	0.0750 U
EC-3	'0-1	8/21/2001		0.154	0.0710 U		0.0710 U	0.0710 U
EC-4	'0-1	8/21/2001		0.139	0.0740 U		0.0740 U	0.0740 U
EC-5	'0-1	8/21/2001		0.0270 J	0.0740 U		0.0740 U	0.0740 U
EC-6	'0-1	8/21/2001		0.0254 J	0.0820 U		0.0820 U	0.0820 U
EC-7	'0-1	8/21/2001		0.163	0.0800 U		0.0800 U	0.0800 U
EC-8	'0-1	8/21/2001		0.214	0.0740 U		0.0740 U	0.0740 U
EC-9	'0-1	8/21/2001		0.687	0.0453 J		0.0870 U	0.0870 U
ESR-1-0-1	'0-0.5	9/4/2001		0.0189 J	0.0710 U		0.0657 J	0.0710 U
ESR-1-4-6	'4-6	9/4/2001		0.0210 J	0.0830 U		0.0830 U	0.0830 U
HB-101A	'17-17	3/5/2007		0.0875	0.0828		0.0220 U	0.0250 U
HB-102A	'0-0	3/13/2007		0.0210 U	0.0240 U		0.0340 U	0.0390 U
HB-102B	'0-0	3/14/2007		0.239	0.123		0.0230 U	0.0270 U
HB-102C	'0-0	3/14/2007		0.0232 J	0.0150 U		0.0220 U	0.0250 U
H-B-103A	'17-17	2/20/2007		0.705	0.484		0.0300 U	0.0350 U
H-B-104A	'17-17	2/23/2007		0.0150 U	0.0170 U		0.0240 U	0.0270 U
H-B-104B	'17-17	2/23/2007		0.0140 U	0.0150 U		0.0220 U	0.0250 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
H-B-104C	'17-17	2/23/2007		10.8	12.7		0.0240 U	0.0280 U
H-B-104D	'17-17	2/27/2007		0.0545 J	0.0293 J		0.0220 U	0.0260 U
H-B-104E	'17-17	2/27/2007		0.709	0.668		0.0230 U	0.0260 U
H-B-105C	'17-17	2/8/2007		0.0841	0.0743 J		0.0220 U	0.0250 U
H-B-105D	'17-17	2/8/2007		0.0276 J	0.0160 U		0.0230 U	0.0270 U
H-B-105E	'0-0	2/8/2007		0.0140 U	0.0160 U		0.0230 U	0.0270 U
HB-1A	'6.75-6.75	4/18/2002		0.594	0.600		0.120 U	0.120 U
HB-3A	'5.25-5.25	4/17/2002		3.10	2.25		0.210 U	0.210 U
HB-3B	'4.5-4.5	4/17/2002		0.0780 U	0.0780 U		0.0780 U	0.0780 U
HB-3C	'4.5-4.5	4/18/2002		0.0400 J	0.0770 U		0.0770 U	0.0770 U
HB-3D	'4.5-4.5	4/18/2002		0.0800 U	0.0800 U		0.0800 U	0.0800 U
HB-4A	'5.33-5.33	4/19/2002		0.253	0.0764 J		0.0780 U	0.0780 U
HB-5A	'3-3	4/22/2002		3.59	0.879		0.0830 U	0.0830 U
HB-7A	'5-5	4/19/2002		0.665	0.305		0.0830 U	0.0830 U
HB-8A	'3-3	4/23/2002		0.227	0.0746 J		0.0800 U	0.0800 U
HB-8B	'4.83-4.83	4/23/2002		0.229	0.0917		0.0790 U	0.0790 U
HB-8C	'5.5-5.5	4/23/2002		0.646	0.214		0.223	0.0820 U
HB-9A	'4.75-4.75	4/24/2002		8.88	4.91		0.0830 U	0.0830 U
HF-B1-0-0.5	'0-0.5	9/10/2001		0.945	0.0218 J		0.0800 U	0.0800 U
HF-B1-8-10	'8-10	9/10/2001		1.46	0.297		0.0930 U	0.0930 U
HF-B2-0-0.5	'0-0.5	9/4/2001		0.309	0.0460 J		0.0740 U	0.0740 U
HF-B2-4-6	'4-6	9/4/2001		1.22	0.0988		0.0740 U	0.0740 U
HF-B3-0-.5	'0-0.5	10/2/2001		8.51	0.320		0.735	0.0740 U
HF-B3-8-10	'8-10	10/2/2001		0.528	0.0403 J		0.231	0.0760 U
IB-1-0-2	'0-2	4/8/2002		0.774	0.393		0.619	0.0780 U
IB-1-4-6	'4-6	4/8/2002		0.610	0.0783		0.110	0.0780 U
IB-2-12-14	'12-14	4/8/2002		35.0	27.5		0.0840 U	0.0840 U
IB-2-4-6	'4-6	4/8/2002		3.94	3.83		0.0780 U	0.0780 U
IB-3-4-6	'4-6	4/8/2002		0.582	0.880		0.0850 U	0.0850 U
IB-3-8-10	'8-10	4/8/2002		1.92	2.31		0.0890 U	0.0890 U
LB-101-0-1	'0-1	12/6/2006		0.0130 U	0.0140 U		0.0210 U	0.0240 U
LB-101-1-3	'1-3	12/6/2006		0.155	0.0382 J		0.0200 U	0.0220 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-102-0-1	'0-3	12/6/2006		0.0130 U	0.0150 U		0.0210 U	0.0240 U
LB-102-1-3	'3-7	12/6/2006		0.0130 U	0.0150 U		0.0210 U	0.0240 U
LB-103-0-1	'0-1	12/6/2006		0.0359 J	0.0140 U		0.0200 U	0.0230 U
LB-103-5-7	'5-7	12/6/2006		0.0324 J	0.0160 U		0.0240 U	0.0270 U
LHP-101-0-1	'0-1	12/4/2006		0.0650 U	0.0740 U		0.110 U	0.120 U
LHP-101-5-8	'4-8	12/4/2006		0.0470 U	0.0530 U		0.0760 U	0.0870 U
LHP-102-0-1	'0-1	12/5/2006		0.0348 J	0.0150 U		0.0210 U	0.0250 U
LHP-102-7-9	'7-9	12/5/2006		0.470	0.0518 J		0.0270 U	0.0310 U
LHP-103-0-1	'0-1	12/5/2006		0.574	0.0750 U		0.110 U	0.120 U
LHP-103-1-3	'1-3	12/5/2006		0.0445 J	0.0160 U		0.0230 U	0.0270 U
LHP-104-0-1	'0-1	12/5/2006		0.0275 J	0.0140 U		0.0200 U	0.0230 U
LHP-104-7-9	'4-8	12/5/2006		0.0330 J	0.0160 U		0.0220 U	0.0260 U
LHP-105-0-1	'0-1	12/5/2006		0.203 J	0.0700 U		0.100 U	0.110 U
LHP-105-1-3	'1-3	12/5/2006		0.0597 J	0.0140 U		0.0200 U	0.0230 U
LHP-106-0-1	'0-1	12/4/2006		0.192 J	0.0690 U		0.0990 U	0.110 U
LHP-106-1-3	'1-3	12/4/2006		0.0740 U	0.0830 U		0.120 U	0.140 U
LHP-107-0-1	'0-1	12/5/2006		0.408	0.0140 U		0.0210 U	0.0240 U
LHP-107-5-7	'4-8	12/5/2006		0.0209 J	0.0150 U		0.0220 U	0.0250 U
LHP-108-0-1	'0-1	12/6/2006		0.824	0.0150 U		0.0220 U	0.0250 U
LHP-108-3-7	'3-7	12/6/2006		0.0171 J	0.0160 U		0.0230 U	0.0270 U
LHP-109-0-1	'0-1	12/6/2006		0.102	0.0150 U		0.0220 U	0.0250 U
LHP-109-7-9	'7-9	12/6/2006		0.160	0.0745 J		0.0260 U	0.0300 U
LHP-110-0-1	'0-1	12/4/2006		1.85	0.150 U		0.220 U	0.250 U
LHP-111-0-1	'0-1	12/4/2006		0.205	0.0150 U		0.0210 U	0.0250 U
LHP-112-0-1	'0-1	12/4/2006		1.21	0.186		0.0220 U	0.0250 U
LHP-113-0-1	'0-1	12/4/2006		0.142	0.0140 U		0.0333 J	0.0230 U
LHP-114-0-1	'0-1	12/4/2006		0.0953	0.0150 U		0.0210 U	0.0240 U
LHP-115-0-1	'0-1	12/4/2006		0.0120 U	0.0140 U		0.0200 U	0.0230 U
LHP-116-0-1	'0-1	12/4/2006		0.0609 J	0.0150 U		0.0220 U	0.0250 U
LHP-117-0-1	'0-1	12/4/2006		0.105	0.0150 U		0.0220 U	0.0250 U
LHP-118-0-1	'0-1	12/4/2006		0.109 J	0.0790 U		0.110 U	0.130 U
LHP-119-0-1	'0-1	12/4/2006		0.0449 J	0.0150 U		0.0220 U	0.0250 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-120-0-1	'0-1	12/4/2006		0.102	0.0170 U		0.0250 U	0.0280 U
LHP-121-0-1	'0-1	12/6/2006		0.0191 J	0.0150 U		0.0220 U	0.0250 U
LHP-122-0-1	'0-1	12/6/2006		0.111	0.0140 U		0.0210 U	0.0240 U
LHP-123-0-1	'0-1	12/4/2006		0.324	0.0150 U		0.0220 U	0.0250 U
LHP-124-.5-2	'0.5-2	10/27/2006		0.988	0.0351 J		0.0220 U	0.0260 U
LHP-124-10-12	'10-12	10/31/2006		0.0220 U	0.0250 U		0.0360 U	0.0410 U
LHP-124-2-4	'2-4	10/27/2006		0.161	0.0160 U		0.114	0.0260 U
LHP-124-28-30	'28-30	10/31/2006		0.0160 U	0.0190 U		0.0270 U	0.0300 U
LHP-125-.5-2	'0.5-2	10/27/2006		1.14	0.0590 J		0.0348 J	0.0250 U
LHP-125-10.5-12	'10.5-12	11/1/2006		0.0150 U	0.0170 U		0.0250 U	0.0280 U
LHP-125-12-14	'12-14	11/1/2006		0.0140 U	0.0150 U		0.0220 U	0.0250 U
LHP-125-4-6	'4-6	10/27/2006		0.0248 J	0.0150 U		0.195	0.0240 U
LHP-126-10.5-12	'10.5-12	11/1/2006		0.0570 UJ	0.0640 UJ		0.0920 UJ	0.110 UJ
LHP-126-14-16	'14-16	11/1/2006		0.0140 U	0.0160 U		0.0230 U	0.0260 U
LHP-126-2-4	'2-4	10/26/2006		0.0656 J	0.0150 U		0.136	0.0240 U
LHP-126-8-10	'9-10	10/26/2006		0.0582 J	0.0160 U		0.0564 J	0.0270 U
LHP-127-0-1	'0-1	12/6/2006		0.320	0.0390 J		0.0200 U	0.0230 U
LHP-127-3-5	'3-5	12/6/2006		0.0224 J	0.0140 U		0.0200 U	0.0230 U
LHP-128-0-1	'0-4	12/6/2006		1.02	0.0140 U		0.0200 U	0.0230 U
LHP-128-7-8	'17-17	12/6/2006		0.0760 J	0.0250 J		0.0260 U	0.0300 U
LP-1-0-0.5	'0-0.5	8/27/2001		0.0750 U	0.0750 U		0.0750 U	0.0750 U
LP-10-0.5-2	'0.5-2	8/27/2001		0.0840 U	0.0840 U		10.9	0.120
LP-10-0-0.5	'0-0.5	8/27/2001		0.144	0.0760 U		3.35	0.980
LP-101-11-13	'11-13	11/2/2006		0.0220 U	0.0250 U		0.0360 U	0.0410 U
LP-101-14-16	'14-16	11/2/2006		0.0190 U	0.0220 U		0.0310 U	0.0360 U
LP-101-26-28	'26-28	11/2/2006		0.0140 U	0.0160 U		0.0220 U	0.0250 U
LP-101-50-52	'50-52	11/2/2006		0.0130 U	0.0150 U		0.0220 U	0.0250 U
LP-11-0-0.5	'0-0.5	8/27/2001		0.188	0.0840 U		0.852	0.119
LP-12-0-0.5	'0-0.5	8/27/2001		0.0234 J	0.0740 U		0.206	0.0740 U
LP-12-4-6	'4-6	8/27/2001		0.0730 U	0.0730 U		0.0730 U	0.0730 U
LP-13-0-0.5	'0-0.5	8/24/2001		0.186	0.0840 U		0.608	0.614
LP-14-0.5-2	'0.5-2	8/24/2001		0.128	0.0710 U		0.306	0.0998

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LP-14-0-0.5	'0-0.5	8/24/2001		0.332 J	0.370 U		0.370 U	0.370 U
LP-15-0-0.5	'0-0.5	8/24/2001		0.141	0.0760 U		0.257	0.0256 J
LP-16-0.5-2	'0.5-2	8/27/2001		0.360 U	0.360 U		0.360 U	0.360 U
LP-16-0-0.5	'0-0.5	8/27/2001		0.192	0.0770 U		0.545	0.0762 J
LP-2-0.5-2	'0.5-2	8/28/2001		0.401	0.0760 U		10.3	5.08
LP-2-0-0.5	'0-0.5	8/28/2001		0.0609 J	0.0750 U		1.22	1.38
LP-3-0-0.5	'0-0.5	8/27/2001		0.823	0.0336 J		0.214	0.0710 U
LP-4 .5-2	'0.5-2	8/21/2001		0.922	0.0314 J		1.67	1.20
LP-4 0-.5	'0-0.5	8/21/2001		0.116	0.0800 U		0.0667 J	0.0800 U
LP-5-0-0.5	'0-0.5	8/27/2001		0.143	0.0750 U		1.09	1.42
LP-6-0-0.5	'0-0.5	8/27/2001		0.119	0.0730 U		0.392	0.109
LP-6-4-6	'4-6	8/27/2001		0.0740 U	0.0740 U		0.0740 U	0.0740 U
LP-7-0-0.5	'0-0.5	8/24/2001		0.883	0.0205 J		2.88	0.931
LP-8-0-0.5	'0-0.5	8/24/2001		0.215	0.0353 J		0.0810 U	0.0810 U
LP-8-10-12	'10-12	8/24/2001		0.110 U	0.110 U		0.110 U	0.110 U
LP-9-0-0.5	'0-0.5	8/24/2001		0.264 J	0.370 U		0.370 U	0.370 U
MW-11D-12-14	'12-14	12/14/2006		0.0210 U	0.0240 U		0.0340 U	37.9
MW-11D-14-16	'14-16	12/14/2006		0.0140 U	0.0160 U		0.0230 U	3.51
MW-11D-16-18	'16-18	12/14/2006		0.0140 U	0.0160 U		0.0230 U	10.1
MW-14D-13-15	'13-15	11/14/2006		0.0150 U	0.0170 U		0.0250 U	0.0280 U
MW-14D-17-19	'17-19	11/14/2006		0.0140 U	0.0160 U		0.0230 U	0.0260 U
MW-16D-13-15	'13-15	11/17/2006		0.0130 U	0.0150 U		0.0220 U	0.0250 U
MW-16D-17-19	'17-19	11/20/2006		0.0140 U	0.0160 U		0.0220 U	0.0260 U
MW-17D-15-17	'15-17	11/10/2006		0.707	0.113		0.0240 U	0.0280 U
MW-17D-17-19	'17-19	11/10/2006		0.0140 U	0.0160 U		0.0220 U	0.0260 U
MW-18D-13-15	'13-15	11/13/2006		0.0150 U	0.0170 U		0.0240 U	0.0280 U
MW-18D-17-19	'17-19	11/13/2006		0.0140 U	0.0150 U		0.0220 U	0.0250 U
MW-20D-12-14	'12-14	11/9/2006		0.0153 J	0.0160 U		0.0230 U	0.869
MW-20D-32-34	'32-32.9	11/10/2006		0.0140 U	0.0150 U		0.0220 U	0.0569 J
MW-20D-36-38	'36-38	11/10/2006		0.0140 U	0.0160 U		0.0220 U	0.0260 U
MW-21D-13-15	'13-13.7	11/16/2006		0.0150 U	0.0170 U		0.0240 U	0.0270 U
MW-21D-15-17	'15-17	11/16/2006		0.0140 U	0.0160 U		0.0230 U	0.0260 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-23D-15-17	'15-16	11/15/2006		0.0150 U	0.0170 U		0.0240 U	0.0270 U
MW-23D-37-39	'37-37.9	11/15/2006		0.0130 U	0.0150 U		0.0220 U	0.0250 U
MW-25D-10-12	'10-12	11/21/2006		0.0250 U	0.0280 U		0.0400 U	0.0460 U
MW-25D-33-35	'33-35	12/18/2006		0.0150 U	0.0170 U		0.0240 U	0.0280 U
MW-26S-8-10	'8-10	10/26/2006		1.07 J	0.236		0.0250 UJ	0.0290 U
MW-6D-0-2	'0-2	11/8/2006		0.0172 J	0.0150 U		0.0764	0.0250 U
MW-6D-12-14	'12-14	11/8/2006		0.0310 U	0.0350 U		0.0510 U	0.0580 U
MW-6D-16-18	'16-18	11/20/2006		0.0220 U	0.0250 U		0.0350 U	0.0410 U
MW-6D-30-32	'30-32	11/21/2006		0.0140 U	0.0160 U		0.0230 U	0.0260 U
PCA-1-0-.5	'0-2	7/17/2001		0.360 U	0.360 U		0.360 U	0.360 U
PCA-1-4-6	'4-6	7/17/2001		0.0800 U	0.0800 U		0.0800 U	0.0800 U
PCA-2-0-.5	'0-0.5	7/17/2001		0.0441 J	0.0730 U		167.	0.0699 J
PCA-3-0-0.5	'0-0.5	9/13/2001		0.292	0.160 U		0.0848 J	0.160 U
PCA-3-4-6	'4-6	9/13/2001		0.150	0.0850 U		0.0850 U	0.0850 U
PCA-4-0-0.5	'0-0.5	9/13/2001		0.380 U	0.380 U		0.892	0.380 U
PCA-4-4-6	'4-6	9/26/2001		0.0560 J	0.0830 U		0.0830 U	0.0830 U
PCA-5-0.5-2	'0.5-2	9/7/2001		0.106	0.0780 U		0.0630 J	0.0780 U
PCA-5-0-0.5	'0-0.5	9/7/2001		0.128	0.0394 J		0.427	0.0932
PCA-6-0-0.5	'0-0.5	9/7/2001		0.614	0.0349 J		0.724	0.0271 J
RR-1 0-0.5	'0-0.5	8/22/2001		29.5	5.39		0.141	0.0740 U
RR-1 14-16	'14-16	8/22/2001		0.295	0.312		0.0820 U	0.0820 U
RR-10 0-.5	'0-0.5	10/12/2001		0.468	0.0740 U		0.0740 U	0.0740 U
RR-11 0-.5	'0-0.5	10/12/2001		0.192	0.0800 U		0.0800 U	0.0800 U
RR-12 0-.5	'0-0.5	10/12/2001		0.165	0.0780 U		0.0780 U	0.0780 U
RR-2-0-0.5	'0-0.5	9/13/2001		0.420 U	0.420 U		0.420 U	0.420 U
RR-2-8-10	'8-10	9/13/2001		0.111	0.0990 U		0.0990 U	0.0990 U
RR-3-0-0.5	'0-0.5	9/13/2001		0.0492 J	0.0720 U		39.1	0.0720 U
RR-4-0-0.5	'0-0.5	9/10/2001		1.77	0.102		1.02	0.0800 U
RR-4-6-8	'6-8	9/13/2001		0.135	0.0770 U		0.456	0.0770 U
RR-5-0-0.5	'0-0.5	9/10/2001		0.514	0.0690 U		0.0690 U	0.0690 U
RR-6-0-0.5	'0-0.5	9/10/2001		0.506	0.0720 U		0.0406 J	0.0720 U
RR-6-8-10	'8-10	9/10/2001		0.129	0.0760 U		0.0760 U	0.0760 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-7-0-0.5	'0-0.5	9/10/2001		0.153	0.0284 J		0.0931	0.0760 U
RR-8-0-0.5	'0-0.5	9/26/2001		0.758	0.0860 U		0.0860 U	0.0860 U
RR-8-6-8	'6-8	9/26/2001		0.140 U	0.140 U		0.140 U	0.140 U
RR-9 0-.5	'0-0.5	10/12/2001		0.129	0.0730 U		0.0730 U	0.0730 U
SC-1	'0-1	8/21/2001		0.0900 U	0.0900 U		0.547	0.0900 U
SC-2	'0-1	8/22/2001		0.398	0.0252 J		0.0700 U	0.0700 U
SC-3	'0-1	8/22/2001		0.136	0.0780 U		0.0780 U	0.0780 U
SILO-B1-0-0.5	'0-0.5	9/6/2001		0.162	0.0223 J		0.0879	0.0770 U
SILO-B1-6-8	'6-8	9/6/2001		50.5	47.7		0.300 U	0.300 U
SILO-B2-0-0.5	'0-0.5	9/6/2001		0.360 U	0.360 U		0.306 J	0.360 U
SILO-B3-0-0.5	'0-0.5	9/6/2001		0.416	0.410 U		0.410 U	0.410 U
SILO-B3-6-8	'6-8	9/6/2001		0.0740 U	0.0740 U		0.0740 U	0.0740 U
SILO-B4-0-0.5	'0-0.5	9/6/2001		0.420 U	0.420 U		0.420 U	0.420 U
SPR-1-0-0.5	'0-0.5	9/5/2001		0.211 J	0.380 U		0.380 U	0.380 U
SPR-1-8-10	'8-10	9/5/2001		0.0637 J	0.100 U		0.100 U	0.100 U
SPR-2A-0-0.5	'0-0.5	7/19/2001		0.210	0.0750 U		0.302	0.0750 U
SPR-2A-8-10	'8-10	7/19/2001		0.0880 U	0.0880 U		0.0880 U	0.0880 U
SPR-2B-0-0.5	'0-0.5	7/19/2001		0.201	0.0720 U		0.436	0.0720 U
SPR-2B-10-12	'10-12	7/19/2001		0.100 U	0.100 U		0.100 U	0.100 U
SPR-3 0-.5	'0-0.5	8/21/2001		0.0739	0.0720 U		0.0835	0.0720 U
SPR-3 4-6	'4-6	8/21/2001		0.0357 J	0.0860 U		0.0860 U	0.0860 U
SPR-4A-0-0.5	'0-0.5	7/19/2001		1.49	0.0356 J		0.307	0.0810 U
SPR-4A-8-10	'8-10	7/19/2001		0.0319 J	0.110 U		0.110 U	0.110 U
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.570 JN	0.0308 J	0.0800 U		0.0800 U	0.0800 U
SPR-4B-4-6	'4-6	8/23/2001		0.0201 J	0.0800 U		0.0800 U	0.0800 U
SPR-4C-0-0.5	'0-0.5	8/23/2001		0.339 J	0.370 U		1.11	0.370 U
SPR-4C-4-6	'4-6	8/23/2001		0.0623 J	0.0860 U		0.163	0.0860 U
SPR-5-0-0.5	'0-0.5	9/5/2001		116.	5.80		2.10 U	2.10 U
SPR-5-2-4	'2-4	9/5/2001		0.0860 U	0.0860 U		0.0860 U	0.0860 U
SPR-6-0.5-2	'0.5-2	9/13/2001		1.34	0.0702 J		0.0542 J	0.0750 U
SPR-6-0-0.5	'0-0.5	9/13/2001		0.0680 U	0.0680 U		0.0680 U	0.0680 U
SR-1-0-.5	'0-0.5	7/17/2001		0.167	0.0710 U		0.246	0.0710 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SR-2-0-.5	'0-0.5	7/17/2001		0.258	0.0680 U		0.437	0.0680 U
ST-1-0-0.5	'0-0.5	9/5/2001		0.0946 J	0.400 U		0.400 U	0.400 U
ST-2-0-0.5	'0-0.5	9/5/2001		2.06	0.111 J		1.29	0.400 U
ST-3-0-0.5	'0-0.5	9/4/2001		0.0376 J	0.0790 U		0.0790 U	0.0790 U
ST-3-4-6	'4-6	9/4/2001		3.96	0.163		0.100 U	0.100 U
TES-1-0-1	'0-1	12/5/2006		0.161 J	0.0770 U		0.110 U	0.130 U
TES-2-0-1	'0-1	12/4/2006		0.150 U	0.160 U		0.331 J	0.270 U
TES-3-0-1	'0-1	12/4/2006		0.140 J	0.0820 U		0.222 J	0.140 U
TES-4-0-1	'0-1	12/5/2006		0.170	0.0150 U		0.0210 U	0.0240 U
TLN-1 .5-2	'0.5-2	8/20/2001		0.318	0.0509 J		1.09	0.0840 U
TLN-1 0-.5	'0-0.5	8/20/2001		0.132	0.0830 U		121.	0.0830 U
TLN-2-0-0.5	'0-0.5	7/19/2001		0.0333 J	0.0740 U		0.655	0.0740 U
TLN-3-0-.5	'0-0.5	7/17/2001		36.2	6.58		1.45	0.340 U
TLN-3-2-4	'2-4	7/17/2001		0.151	0.0780 U		0.0780 U	0.0780 U
TLN-4 0-.5	'0-0.5	8/20/2001		0.0405 J	0.0690 U		0.593	0.0690 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001		0.0737	0.0730 U		0.867	0.0730 U
TLN-5 .5-2	'0.5-2	8/20/2001		0.566	0.0348 J		0.0829	0.0720 U
TLN-5 0-.5	'0-0.5	8/20/2001		0.644	0.0720 U		0.0720 U	0.0720 U
TLN-5-4-6	'4-6	8/30/2001		0.281	0.0730 U		0.0730 U	0.0730 U
TLN-6 0-.5	'0-0.5	8/20/2001		0.953	0.0720 U		0.164	0.0720 U
TLS-10 0-.5	'0-0.5	8/21/2001		0.0203 J	0.0780 U		0.0238 J	0.0780 U
TLS-10 8-10	'8-10	8/21/2001		0.119	0.0970 U		0.0970 U	0.0970 U
TLS-1-0-0.5	'0-0.5	9/5/2001		0.390 U	0.390 U		0.390 U	0.390 U
TLS-11-0-0.5	'0-0.5	9/7/2001		0.124	0.0750 U		0.0624 J	0.0750 U
TLS-2-0-0.5	'0-0.5	9/7/2001		0.370 U	0.370 U		0.370 U	0.370 U
TLS-2-6-8	'6-8	9/7/2001		0.120 U	0.120 U		0.120 U	0.120 U
TLS-3 0-.5	'0-0.5	8/21/2001		0.155	0.0740 U		0.0740 U	0.0740 U
TLS-4-0-0.5	'0-0.5	9/7/2001		0.188	0.0730 U		3.86	0.0399 J
TLS-4-8-10	'8-10	9/7/2001		0.265	0.315		0.0594 J	0.110 U
TLS-5 0-0.5	'0-0.5	8/21/2001		0.0320 J	0.0710 U		2.31	0.0710 U
TLS-5-8-10	'8-10	9/26/2001		0.100 U	0.280		1.90	0.100 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethanone, 2-Methoxy-1-Phenyl-	Fluoranthene	Fluorene	Furan, 3-Phenyl-	Hexa-chlorobenzene	Hexa-chlorobutadiene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLS-6 0-.5	'0-0.5	8/21/2001		0.145	0.0900 U		0.0408 J	0.0900 U
TLS-6-3-5	'3-5	9/26/2001		8.90 U	8.90 U		8.90 U	8.90 U
TLS-7 0-.5	'0-0.5	8/21/2001		0.106	0.0990 U		0.167	0.0990 U
TLS-8-0-0.5	'0-0.5	9/7/2001		0.0654 J	0.0760 U		0.336	0.0760 U
TLS-8-6-8	'6-8	9/7/2001		0.231	0.0340 J		0.116	0.0870 U
TLS-9 0-.5	'0-0.5	8/21/2001		0.360 U	0.360 U		0.263 J	0.360 U
TP-105	'0-0	6/8/2007		0.0539 J	0.0130 U		0.0190 U	0.0220 U
TP-105A	'0-0	6/8/2007		0.0120 U	0.0130 U		0.0190 U	0.0220 U
TP-106-A	'0-0	6/8/2007		0.0397 J	0.0140 U		0.0200 U	0.0230 U
TP-106-B	'0-0	6/8/2007		0.0120 U	0.0130 U		0.0190 U	0.0220 U
WWT-1-0-0.5	'0-0.5	7/19/2001		0.137 J	0.390 U		0.915	0.390 U
WWT-101-15-17	'15-17	11/6/2006		0.0150 U	0.0170 U		0.0240 U	0.0270 U
WWT-101-21-23	'21-23	11/6/2006		0.0140 U	0.0160 U		0.0230 U	0.0260 U
WWT-1-12-14	'12-14	8/23/2001		2.62 J	1.91 J		44.0	5.20 U
WWT-2-0-0.5	'0-0.5	8/23/2001		0.0489 J	0.0720 U		0.270	0.0892
WWT-2-12-14	'12-14	8/23/2001		0.200 J	0.250 U		0.896	0.293
WWT-3-0-0.5	'0-0.5	8/23/2001		0.203 J	0.360 U		1.03	0.360 U
WWT-3-12-14	'12-14	8/23/2001		0.886	0.196		3.12	0.160 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
SRS			97	140			2		2000		
12K-B1-0.5-2	'0.5-2	9/6/2001	0.850 U	0.210 U			0.0850 U		0.0850 U		
12K-B1-0-0.5	'0-0.5	9/6/2001	0.790 U	0.200 U			0.0790 UJ		0.0790 U		
12K-B2-0.5-2	'0.5-2	9/6/2001	0.790 U	0.200 U			0.0790 U		0.0790 U		
12K-B2-0-0.5	'0-0.5	9/6/2001	0.810 U	0.200 U			0.0810 U		0.0810 U		
150K-1-0.5-2	'0.5-2	9/10/2001	0.770 U	0.190 U			0.0311 J		0.0770 U		
150K-1-0-0.5	'0-0.5	9/10/2001	4.00 U	1.00 U			0.400 UJ		0.400 U		
230-B1-0.5	'0-0.5	10/2/2001	0.790 U	0.200 U			0.212		0.0790 U		
230-B10-0-0.5	'0-0.5	8/30/2001	0.990 U	0.250 U			0.0990 UJ		0.0990 U		
230-B10-1.5-2	'1.5-2	8/30/2001	0.860 U	0.210 U			0.0387 J		0.0860 U		
230-B11-0-0.5	'0-0.5	8/30/2001	0.720 U	0.180 U			0.0720 U		0.0720 U		
230-B11-1.5-2	'1.5-2	8/30/2001	0.720 U	0.180 U			0.0250 J		0.0720 U		
230-B1-4-6	'4-6	10/2/2001	3.90 U	0.980 U			0.390 U		0.390 U		
230-B2-0-0.5	'0-0.5	8/30/2001	0.800 U	0.200 U			0.0800 U		0.0800 U		
230-B2-1.5-2	'1.5-2	8/30/2001	0.720 U	0.180 U			0.0720 U		0.0720 U		
230-B3-0-0.5	'0-0.5	8/30/2001	0.760 U	0.190 U			0.0760 U		0.0760 U		
230-B3-1.5-2	'1.5-2	8/30/2001	0.780 U	0.200 U			0.0277 J		0.0780 U		
230-B4-0-0.5	'0-0.5	8/30/2001	0.800 U	0.200 U			0.0800 U		0.0800 U		
230-B4-1.5-2	'1.5-2	8/30/2001	0.760 U	0.190 U			0.0343 J		0.0760 U		
230-B5-0-0.5	'0-0.5	9/13/2001	0.800 U	0.200 U			0.0800 U		0.0800 U		
230-B5-1.5-2	'1.5-2	9/13/2001	0.750 U	0.190 U			0.0251 J		0.0750 U		
230-B6 0-0.5	'0-0.5	8/22/2001	0.760 U	0.190 U			0.0586 J		0.0760 U		
230-B6 1.5-2	'1.5-2	8/22/2001	0.760 U	0.190 U			0.0760 U		0.0760 U		
230-B7 0-0.5	'0-0.5	8/22/2001	0.810 U	0.200 U			0.0675 J		0.0810 U		
230-B7 1.5-2	'1.5-2	8/22/2001	0.820 U	0.200 U			0.0820 U	0.430 JN	0.0820 U		
230-B8 1.5-2	'1.5-2	8/22/2001	0.830 U	0.210 U			0.0273 J		0.0830 U		
230-B9 0-0.5	'0-0.5	8/22/2001	0.710 U	0.180 U			0.0710 U		0.0710 U		
230-B9 0-0.5	'0-0.5	8/22/2001	0.770 U	0.190 U			0.0947		0.0770 U		
230-B9 1.5-2	'1.5-2	8/22/2001	0.750 U	0.190 U			0.0750 U		0.0750 U		
231-B1-0-0.5	'0-0.5	10/5/2001	0.750 U	0.190 U			0.0750 U		0.0750 U		
231-B10-0-0.5	'0-0.5	9/17/2001	0.830 U	0.210 U			0.0830 U		0.0830 U		
231-B11-0-0.5	'0-0.5	9/19/2001	0.940 U	0.230 U			0.0419 J		0.0940 U		
231-B11-8-10	'8-10	9/19/2001	0.850 U	0.210 U			0.0850 U		0.0850 U		
231-B12-0-0.5	'0-0.5	9/17/2001	0.750 U	0.0533 J			0.0750 U		0.0750 U		
231-B13-0-0.5	'0-0.5	9/19/2001	3.90 U	0.960 U			0.390 U		0.390 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
231-B13-8-10	'9-10	9/27/2001	0.770 U	0.190 U			0.0770 U		0.0770 U		
231-B14-0-0.5	'0-0.5	9/19/2001	0.820 U	0.200 U			0.0820 U		0.0820 U		
231-B2-0.5-2	'0.5-2	8/22/2001	0.740 U	0.180 U			0.102		0.0740 U		
231-B2-0-0.5	'0-0.5	8/22/2001	0.740 U	0.180 U			0.0740 U		0.0740 U		
231-B3-0-0.5	'0-0.5	8/22/2001	0.770 U	0.190 U			0.0770 U		0.0770 U		
231-B4-0-0.5	'0-0.5	8/30/2001	0.770 U	0.190 U			0.0770 U		0.0770 U		
231-B4-6-8	'6-8	9/27/2001	0.800 U	0.200 U			0.0800 U		0.0800 U		
231-B5-0.5-2	'0.5-2	9/19/2001	0.840 U	0.210 U			0.0343 J		0.0840 U		
231-B6-0-0.5	'0-0.5	9/27/2001	0.910 U	0.230 U			0.0910 U		0.0910 U		
231-B6-4-6	'4-6	9/27/2001	0.750 U	0.0833 J			0.0401 J		0.0750 U		
231-B7-0-0.5	'0-0.5	9/13/2001	4.10 U	1.00 U			0.410 U		0.410 U		
231-B8-0-0.5	'0-0.5	9/27/2001	1.60 UJ	0.776 J			0.102 J		0.160 UJ		
231-B8-8-10	'8-10	9/27/2001	65.0 U	16.0 U			6.50 UJ		6.50 U		
231-B9-0.5-2	'0.5-2	9/27/2001	0.940 U	0.230 U			0.0940 U		0.0940 U		
231-B9-0-0.5	'0-0.5	9/27/2001	4.70 U	0.772 J			0.470 UJ		0.470 U		
240-1-0-0.5	'0-0.5	9/26/2001	0.810 U	0.200 U			0.0810 U		0.0810 U		
240-1-8-10	'8-10	10/1/2001	0.810 U	0.200 U			0.0810 U		0.0810 U		
5K-B1-0-0.5	'0-0.5	10/1/2001	4.10 U	1.00 U			0.410 U		0.410 U		
5K-B2-0-0.5	'0-0.5	8/31/2001	0.710 U	0.180 U			0.0710 UJ		0.0710 U		
5K-B2-8-10	'8-10	8/31/2001	0.820 U	0.200 U			0.0820 U		0.0820 U		
5K-B3-0-0.5	'0-0.5	9/26/2001	0.800 U	0.200 U			0.0800 UJ		0.0800 U		
5K-B4-0-0.5	'0-0.5	10/1/2001	4.60 U	1.20 U			0.460 UJ		0.460 U		
5K-B4-4-6	'4-6	10/1/2001	5.50 U	1.40 U			0.550 U		0.550 U		
5K-B5-0-0.5	'0-0.5	8/31/2001	0.780 U	0.200 U			0.0780 U		0.0780 U		
5K-B5-4-6	'4-6	9/26/2001	0.870 U	0.220 U			0.0870 U		0.0870 U		
AB-1-0-0.5	'0-0.5	9/4/2001	0.780 U	0.150 J			0.0780 U		0.0780 U		
AB-2-0.5-2	'0.5-2	9/4/2001	0.870 U	0.0648 J			0.0870 U		0.0870 U		
AB-2-0-0.5	'0-0.5	9/4/2001	0.810 U	0.0745 J			0.0339 J		0.0810 U		
ADN-1-0-0.5	'0-0.5	9/5/2001	0.760 U	0.190 U			0.136		0.0760 U		
ADN-1-8-10	'8-10	9/5/2001	0.960 U	0.240 U			0.0346 J		0.0960 U		
ADN-2-0-0.5	'0-0.5	9/5/2001	0.820 U	0.200 U			0.0270 J		0.0820 U		
ADN-2-10-11	'10-11	9/27/2001	0.800 U	0.200 U			0.0800 U		0.0800 U		
ADS-1-0-.5	'0-0.5	7/17/2001	3.70 U	0.940 U			0.370 U		0.370 U		
ADS-10-0-0.5	'0-2	7/18/2001	0.770 U	0.190 U			0.557		0.0770 U		
ADS-101-0-1	'0-1	12/5/2006	0.0280 U	0.0190 U			0.0250 U		0.0190 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
ADS-101-1-3	'1-3	12/5/2006	0.0270 U	0.0190 U			0.0240 U		0.0190 U		
ADS-102-0-1.5	'0-2	12/5/2006	0.0270 U	0.0190 U			0.0322 J		0.0190 U		
ADS-102-7-8	'4-8	12/5/2006	0.0290 U	0.0200 U			0.0260 U		0.0200 U		
ADS-10-4-6	'4-6	7/18/2001	0.950 U	0.240 U			0.0950 U		0.0950 U		
ADS-11-0-0.5	'0-2	7/18/2001	0.760 U	0.190 U			0.729		0.0760 U		
ADS-12-0.5-2	'0.5-2	7/18/2001	0.870 U	0.220 U			0.0870 U		0.0870 U		
ADS-12-0-0.5	'0-0.5	7/18/2001	0.850 U	0.210 U			0.0433 J		0.0850 U		
ADS-2-0-0.5	'0-0.5	7/18/2001	0.800 U	0.200 U			0.0800 U		0.0800 U		
ADS-2-4-6	'4-6	7/18/2001	0.810 U	0.200 U			0.0810 U		0.0810 U		
ADS-3-0-0.5	'0-0.5	7/18/2001	0.780 U	0.190 U			0.0780 UJ		0.0780 U		
ADS-4-0-0.5	'0-2	7/18/2001	0.770 U	0.190 U			0.333 J		0.0770 U		
ADS-4-12-14	'12-14	7/18/2001	0.850 U	0.210 U			0.0850 U		0.0850 U		
ADS-5-0-0.5	'0-0.5	7/18/2001	3.60 U	0.900 U			0.360 UJ		0.360 U		
ADS-5-4-6	'4-6	9/27/2001	0.740 U	0.190 U			0.0740 U		0.0740 U		
ADS-6-0.5-2	'0.5-2	7/18/2001	0.760 U	0.136 J			0.0729 J	0.490 JN	0.0760 U		
ADS-6-0-0.5	'0-0.5	7/18/2001	3.80 U	0.950 U			0.380 U		0.380 U		
ADS-7-0-.5	'0-0.5	7/17/2001	3.60 U	0.900 U			0.360 U		0.360 U		
ADS-8-0-0.5	'0-0.5	7/18/2001	0.820 U	1.27			0.0471 J		0.0820 U		
ADS-8-4-6	'4-6	7/18/2001	0.830 U	1.95			0.0830 U		0.0830 U		
ADS-9-0-0.5	'0-0.5	7/18/2001	0.860 U	0.220 U			0.0792 J		0.0860 U		
BLIND DUP	'0-0	8/21/2001	0.710 U	0.180 U			0.141		0.0710 U		
BSL-10-0-1	'0-1	9/21/2001	0.990 U	0.0530 J			0.0990 UJ		0.0990 U		
BSL-1-0-1	'0-1	9/20/2001	0.790 U	0.200 U			0.0597 J		0.0790 U		
BSL-11-0-1	'0-1	9/26/2001	0.960 U	0.240 U			0.0960 U		0.0960 U		
BSL-12-0-1	'0-1	9/26/2001	0.760 U	0.190 U			0.0760 U		0.0760 U		
BSL-1-4-6	'4-6	9/20/2001	0.980 U	0.240 U			0.0980 U		0.0980 U		
BSL-2-0-1	'0-1	9/21/2001	1.00 U	0.250 U			0.0953 J		0.100 U		
BSL-3-0-0.5	'0-0.5	9/20/2001	0.710 U	0.180 U			0.0710 U		0.0710 U		
BSL-4-0-1	'0-0.5	9/21/2001	0.860 U	0.220 U			0.0860 U		0.0860 U		
BSL-4-4-6	'4-6	9/21/2001	1.40 U	0.350 U			0.140 U		0.140 U		
BSL-5-0-.5	'0-0.5	9/21/2001	0.820 U	0.200 U			0.0820 U		0.0820 U		
BSL-6-0-1	'0-1	9/26/2001	1.10 U	0.270 U			0.0708 J		0.110 U		
BSL-6-1-2	'1-2	9/26/2001	1.30 U	0.320 U			0.130 U		0.130 U		
BSL-7-0-.5	'0-0.5	9/21/2001	0.980 U	0.240 U			0.0980 U		0.0980 U		
BSL-8-0-1	'0-1	9/26/2001	1.20 U	0.300 U			0.120 U		0.120 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
BSL-9-.5-2	'0.5-2	9/21/2001	1.10 U	0.270 U			0.110 U		0.110 U		
BSL-9-0-.5	'0-0.5	9/21/2001	0.840 U	0.210 U			0.0840 U		0.0840 U		
BT-B1-0-0.5	'0-0.5	9/18/2001	0.810 U	0.0815 J			0.0810 U		0.0810 U		
BT-B2-0.5-2	'0.5-2	9/18/2001	0.790 U	0.119 J			0.0790 U		0.0790 U		
BT-B2-0-0.5	'0-0.5	9/18/2001	0.860 U	0.185 J			0.0860 U		0.0860 U		
BT-B3-0-0.5	'0-0.5	9/18/2001	3.90 U	0.960 U			0.390 U		0.390 U		
BT-B4-0.5-2	'0.5-2	8/30/2001	0.770 U	0.190 U			0.0770 UJ		0.0770 U		
BT-B4-0-0.5	'0-0.5	8/30/2001	3.40 U	0.840 U			0.340 UJ		0.340 U		
BT-B5-0-.5	'0-0.5	10/2/2001	0.810 U	0.0300 J			0.0810 UJ		0.0810 UJ		
BT-B6-0.5-2	'0.5-2	9/17/2001	0.880 U	0.220 U			0.0880 U		0.0880 U		
BT-B6-0-0.5	'0-0.5	9/17/2001	3.40 U	0.860 U			0.340 U		0.340 U		
CF-1-0-0.5	'0-0.5	8/31/2001	0.740 U	0.180 U			0.0345 J		0.0740 U		
CF-1-2-4	'2-4	8/31/2001	0.740 U	0.190 U			0.154		0.0740 U		
CF-2-0-0.5	'0-0.5	8/28/2001	0.820 U	0.210 U			0.0820 U		0.0820 U		
CF-3-0.5-2	'0.5-2	8/28/2001	1.30 U	0.330 U			0.130 U		0.130 U		
CF-3-0-0.5	'0-0.5	8/28/2001	0.990 U	0.250 U			0.0812 J		0.0990 U		
CF-4-0-0.5	'0-0.5	8/28/2001	0.870 U	0.220 U			0.109		0.0870 U		
CF-5-0-0.5	'0-0.5	8/28/2001	0.700 U	0.170 U			0.0700 U		0.0700 U		
CF-5-4-6	'4-6	8/28/2001	0.750 U	0.190 U			0.0553 J		0.0750 U		
CF-6-0-0.5	'0-0.5	8/28/2001	0.770 U	0.190 U			0.0598 J		0.0770 U		
CF-7-0-0.5	'0-0.5	8/28/2001	0.750 U	0.190 U			0.0526 J		0.0750 U		
CF-7-4-6	'4-6	8/28/2001	0.700 U	0.180 U			0.0976 J		0.0700 U		
CF-8-0-0.5	'0-0.5	8/28/2001	0.770 U	0.0586 J			0.114		0.0770 U		
CF-9-0.5-2	'0.5-2	8/31/2001	0.720 U	0.180 U			0.0720 U		0.0720 U		
CF-9-0-0.5	'0-0.5	8/31/2001	0.740 U	0.180 U			0.0223 J		0.0740 U		
DC-B12-0-0.5	'0-0.5	10/3/2001	0.760 U	0.190 U			0.0760 U		0.0760 U		
DC-B12-2-4	'2-4	10/3/2001	0.730 U	0.180 U			0.0730 U		0.0730 U		
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.730 U	0.347			0.272		0.0730 U		
DC-SS11-0-0.5	'0-0.5	9/17/2001	3.70 U	0.920 U			0.696 J		0.370 U		
DC-SS13-0-0.5	'0-0.5	9/17/2001	3.50 U	0.860 U			0.350 U		0.350 U		
DC-SS15-0-0.5	'0-0.5	9/17/2001	4.10 U	0.217 J			0.419		0.410 U		
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.850 U	0.210 U			0.270 J		0.0850 U		
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.740 U	0.143 J			0.0740 U		0.0740 U		
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.880 U	0.153 J			0.0880 U		0.0880 U		
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.750 U	0.499			0.0230 J		0.0750 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.760 U	0.101 J			0.0760 U		0.0760 U		
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.760 U	0.190 U			0.0760 U		0.0760 U		
DSP-1-0-0.5	'0-0.5	10/3/2001	0.820 U	0.200 U			0.0324 J		0.0820 U		
DSP-1-4-6	'4-6	11/19/2001	0.820 U	0.210 U			0.0820 U		0.0820 U		
DSP-2-0-0.5	'0-0.5	9/4/2001	0.740 U	0.180 U			0.0269 J		0.0740 U		
DSP-3-0-0.5	'0-0.5	9/4/2001	3.80 U	0.940 U			0.380 U		0.380 U		
DSP-3-2-4	'2-4	9/4/2001	0.830 U	0.210 U			0.0830 U		0.0830 U		
DSP-4-0-0.5	'0-0.5	9/4/2001	0.850 U	0.210 U			0.0850 U		0.0850 U		
DSP-4-4-6	'4-6	9/26/2001	0.860 U	0.210 U			0.0860 U		0.0860 U		
DUP-01-010824	'0-0.5	8/24/2001	0.770 U	0.190 U			0.0728 J		0.0770 U		
DUP-01-010831	'2-4	8/31/2001	0.750 U	0.190 U			0.147		0.0750 U		
DUP-01-010904	'0-0.5	9/4/2001	3.70 U	0.920 U			0.370 U		0.370 U		
DUP-01-010905	'8-10	9/5/2001	0.840 U	0.210 U		2.20 JN	0.0825 J		0.0840 U	1.70 JN	
DUP-01-010906	'0-8	9/6/2001	3.10 U	0.760 U	12.0 JN	7.20 JN	1.21		0.310 U		
DUP-01-010913	'0-0.5	9/13/2001	3.80 U	0.960 U			0.380 U		0.380 U		
DUP-01-010917	'0-0.5	9/17/2001	0.770 U	0.0446 J			0.0770 U		0.0770 U		
DUP-01-010926	'1-2	9/26/2001	1.30 U	0.320 U			0.0385 J		0.130 U		
DUP-01-010927	'4-6	9/27/2001	0.740 U	0.180 U			0.0740 U		0.0740 U		
DUP-01-021001	'0-0	10/2/2001	0.750 U	0.235			0.0724 J		0.0750 U		
DUP-01-08 2201	'1.5-2	8/22/2001	0.800 U	0.200 U			0.0800 U		0.0800 U		
DUP-01-121001	'0-0	10/12/2001	0.770 U	0.190 U			0.0978		0.0770 U		
DUP-01-170402	'0-0	4/17/2002	1.80 U	0.460 U			0.180 U		0.180 U		
DUP-02-010913	'0-0.5	9/13/2001	4.30 U	1.10 U			0.430 U		0.430 U		
DUP-02-010921	'0-1	9/21/2001	0.910 U	0.230 U			0.0910 U		0.0910 U		
DUP-02-010926	'4-6	9/26/2001	0.900 U	0.220 U			0.0900 UJ		0.0900 U		
DUP060807	'0-0	6/8/2007	0.0250 U	0.0170 U			0.0465 J		0.0170 U		
DUP-1-010828	'0-0.5	8/28/2001	0.770 U	0.190 U			0.0770 U		0.0770 U		
DUP-1-010921	'0-0.5	9/21/2001	1.00 U	0.260 U			0.100 U		0.100 U		
DUP110606	'15-17	11/6/2006	0.0300 U	0.0210 U			0.0270 U		0.0210 U		
DUP112006	'16-18	11/20/2006	0.0470 U	0.0330 U			0.0420 U		0.0320 U		
DUP112106	'10-12	11/21/2006	0.0490 U	0.0340 U			0.0430 U		0.0340 U		
DUP-120506	'0-4	12/5/2006	0.0730 U	0.0510 U			0.0899 J		0.0500 U		
DUP-120606	'0-4	12/6/2006	0.0250 UJ	0.0170 U			0.0841		0.0170 U		
DUPE071801	'0-0.5	7/18/2001	0.740 U	0.180 U			0.0740 U		0.0740 U		
EC-1	'0-1	8/21/2001	0.760 U	0.190 U			0.0236 J		0.0760 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
EC-2	'0-1	8/21/2001	0.750 U	0.190 U			0.170		0.0750 U		
EC-3	'0-1	8/21/2001	0.710 U	0.180 U			0.0736 J		0.0710 U		
EC-4	'0-1	8/21/2001	0.740 U	0.180 U			0.0734 J		0.0740 U		
EC-5	'0-1	8/21/2001	0.740 U	0.180 U			0.0740 U		0.0740 U		
EC-6	'0-1	8/21/2001	0.820 U	0.210 U			0.0820 U		0.0820 U		
EC-7	'0-1	8/21/2001	0.800 U	0.200 U			0.0865 J		0.0800 U		
EC-8	'0-1	8/21/2001	0.740 U	0.180 U			0.0748 J		0.0740 U		
EC-9	'0-1	8/21/2001	0.870 U	0.220 U			0.281 J		0.0870 U		
ESR-1-0-1	'0-0.5	9/4/2001	0.710 U	0.180 U			0.0710 U		0.0710 U		
ESR-1-4-6	'4-6	9/4/2001	0.830 U	0.210 U			0.0830 U		0.0830 U		
HB-101A	'17-17	3/5/2007	0.0280 U	0.0190 U			0.0240 U		0.0190 U	0.350 JN	
HB-102A	'0-0	3/13/2007	0.0430 U	0.0300 U			0.0380 U		0.0300 U		
HB-102B	'0-0	3/14/2007	0.0290 UJ	0.0200 U			0.0260 U		0.0200 U		
HB-102C	'0-0	3/14/2007	0.0270 UJ	0.0190 U			0.0240 U		0.0190 U		
H-B-103A	'17-17	2/20/2007	0.0380 U	0.0260 U			0.0340 U		0.0260 U		
H-B-104A	'17-17	2/23/2007	0.0300 U	0.0210 U			0.0260 U		0.0200 U		
H-B-104B	'17-17	2/23/2007	0.0280 U	0.0190 U			0.0240 U		0.0190 U		
H-B-104C	'17-17	2/23/2007	0.0300 U	0.0210 U		3.40 JN	0.247		0.0210 U		
H-B-104D	'17-17	2/27/2007	0.0280 U	0.0190 U			0.0250 U		0.0190 U		
H-B-104E	'17-17	2/27/2007	0.0280 U	0.0200 U			0.0250 U		0.0200 U		
H-B-105C	'17-17	2/8/2007	0.0270 U	0.0190 U			0.0240 U		0.0190 U		
H-B-105D	'17-17	2/8/2007	0.0290 U	0.0200 U			0.0260 U		0.0200 U		
H-B-105E	'0-0	2/8/2007	0.0290 U	0.0200 U			0.0260 U		0.0200 U		
HB-1A	'6.75-6.75	4/18/2002	1.20 U	0.300 U			0.120 U		0.120 U		
HB-3A	'5.25-5.25	4/17/2002	2.10 U	0.520 U			0.0637 J		0.210 U		
HB-3B	'4.5-4.5	4/17/2002	0.780 U	0.200 U			0.0780 U		0.0780 U		
HB-3C	'4.5-4.5	4/18/2002	0.770 U	0.190 U			0.0770 U		0.0770 U		
HB-3D	'4.5-4.5	4/18/2002	0.800 U	0.200 U			0.0800 U		0.0800 U		
HB-4A	'5.33-5.33	4/19/2002	0.780 U	0.200 U			0.0168 J		0.0780 U		
HB-5A	'3-3	4/22/2002	0.830 U	0.210 U			0.0837		0.0830 U		
HB-7A	'5-5	4/19/2002	0.830 U	0.210 U			0.0527 J		0.0830 U		
HB-8A	'3-3	4/23/2002	0.800 U	0.200 U			0.179		0.0800 U		
HB-8B	'4.83-4.83	4/23/2002	0.790 U	0.200 U			0.0790 U		0.0790 U		
HB-8C	'5.5-5.5	4/23/2002	0.820 U	0.200 U			0.0451 J		0.0820 U		
HB-9A	'4.75-4.75	4/24/2002	0.830 U	0.210 U			0.248		0.0830 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
HF-B1-0-0.5	'0-0.5	9/10/2001	0.800 U	0.200 U			0.406		0.0800 U		
HF-B1-8-10	'8-10	9/10/2001	0.930 U	0.230 U			0.659		0.0930 U		
HF-B2-0-0.5	'0-0.5	9/4/2001	0.740 U	0.180 U			0.0790		0.0740 U		
HF-B2-4-6	'4-6	9/4/2001	0.740 U	0.180 U			0.208		0.0740 U		
HF-B3-0-.5	'0-0.5	10/2/2001	0.740 U	0.190 U			1.26		0.0740 U		
HF-B3-8-10	'8-10	10/2/2001	0.760 U	0.190 U			0.0310 J		0.0760 U		
IB-1-0-2	'0-2	4/8/2002	0.780 U	0.190 U			0.0780 U		0.0780 U		
IB-1-4-6	'4-6	4/8/2002	0.780 U	0.190 U			0.0780 U		0.0780 U		
IB-2-12-14	'12-14	4/8/2002	0.840 U	0.210 U			0.432		0.0840 U		
IB-2-4-6	'4-6	4/8/2002	0.780 U	0.190 U			0.0430 J		0.0780 U		
IB-3-4-6	'4-6	4/8/2002	0.850 U	0.210 U			0.0850 U		0.0850 U		
IB-3-8-10	'8-10	4/8/2002	0.890 U	0.220 U			0.0890 U		0.0890 U		
LB-101-0-1	'0-1	12/6/2006	0.0260 U	0.0180 U			0.0230 U		0.0180 U		
LB-101-1-3	'1-3	12/6/2006	0.0240 U	0.0170 U			0.0889		0.0170 U		
LB-102-0-1	'0-3	12/6/2006	0.0270 U	0.0180 U			0.0230 U		0.0180 U		
LB-102-1-3	'3-7	12/6/2006	0.0260 U	0.0180 U			0.0230 U		0.0180 U		
LB-103-0-1	'0-1	12/6/2006	0.0260 U	0.0180 U			0.0342 J		0.0180 U		
LB-103-5-7	'5-7	12/6/2006	0.0290 U	0.0200 U			0.0260 U		0.0200 U		
LHP-101-0-1	'0-1	12/4/2006	0.130 U	0.0920 U			0.120 UJ		0.0910 U		
LHP-101-5-8	'4-8	12/4/2006	0.0940 U	0.0660 U			0.0830 U		0.0650 U		
LHP-102-0-1	'0-1	12/5/2006	0.0270 U	0.0190 U			0.0240 U		0.0190 U		
LHP-102-7-9	'7-9	12/5/2006	0.0330 U	0.0230 U			0.220		0.0230 U		
LHP-103-0-1	'0-1	12/5/2006	0.130 U	0.0940 U			0.287 J		0.0930 U		
LHP-103-1-3	'1-3	12/5/2006	0.0290 U	0.0200 U			0.0273 J		0.0200 U		
LHP-104-0-1	'0-1	12/5/2006	0.0250 U	0.0170 U			0.0220 U		0.0170 U		
LHP-104-7-9	'4-8	12/5/2006	0.0280 U	0.0200 U			0.0250 U		0.0190 U		
LHP-105-0-1	'0-1	12/5/2006	0.120 U	0.0870 U			0.123 J		0.0860 U		
LHP-105-1-3	'1-3	12/5/2006	0.0250 U	0.0180 U			0.257		0.0170 U		
LHP-106-0-1	'0-1	12/4/2006	0.120 UJ	0.0860 U			0.136 J		0.0850 U		
LHP-106-1-3	'1-3	12/4/2006	0.150 U	0.100 U			0.130 U		0.100 U		
LHP-107-0-1	'0-1	12/5/2006	0.0260 U	0.0180 U			0.523		0.0180 U		
LHP-107-5-7	'4-8	12/5/2006	0.0270 U	0.0190 U			0.0240 U		0.0190 U		
LHP-108-0-1	'0-1	12/6/2006	0.0270 U	0.0190 U			0.506		0.0190 U		
LHP-108-3-7	'3-7	12/6/2006	0.0290 U	0.0200 U			0.0260 U		0.0200 U		
LHP-109-0-1	'0-1	12/6/2006	0.0270 U	0.0190 U			0.0771		0.0190 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
LHP-109-7-9	'7-9	12/6/2006	0.0330 U	0.0230 U			0.0290 U		0.0230 U		
LHP-110-0-1	'0-1	12/4/2006	0.270 UJ	0.190 U			0.447 J		0.190 U		
LHP-111-0-1	'0-1	12/4/2006	0.0270 U	0.0190 U			0.0240 U		0.0180 U		
LHP-112-0-1	'0-1	12/4/2006	0.0270 U	0.0190 U			0.218 J		0.0190 U		
LHP-113-0-1	'0-1	12/4/2006	0.0250 UJ	0.0180 U			0.0220 U		0.0170 U		
LHP-114-0-1	'0-1	12/4/2006	0.0260 U	0.0180 U			0.0249 J		0.0180 U		
LHP-115-0-1	'0-1	12/4/2006	0.0250 U	0.0170 U			0.0220 U		0.0170 U		
LHP-116-0-1	'0-1	12/4/2006	0.0270 U	0.0190 U			0.0240 U		0.0190 U		
LHP-117-0-1	'0-1	12/4/2006	0.0280 U	0.0190 U			0.0248 J		0.0190 U		
LHP-118-0-1	'0-1	12/4/2006	0.140 U	0.0980 U			0.120 U		0.0980 U		
LHP-119-0-1	'0-1	12/4/2006	0.0280 UJ	0.0190 U			0.0240 U		0.0190 U		
LHP-120-0-1	'0-1	12/4/2006	0.0310 U	0.0210 U			0.0338 J		0.0210 U		
LHP-121-0-1	'0-1	12/6/2006	0.0270 U	0.0190 U			0.0240 U		0.0190 U		
LHP-122-0-1	'0-1	12/6/2006	0.0260 U	0.0180 U			0.0230 U		0.0180 U		
LHP-123-0-1	'0-1	12/4/2006	0.0270 U	0.0190 U			0.0854 J		0.0190 U		
LHP-124-.5-2	'0.5-2	10/27/2006	0.0280 U	0.0190 U			0.250		0.0190 U		
LHP-124-10-12	'10-12	10/31/2006	0.0440 U	0.0310 U			0.0390 U		0.0310 U		
LHP-124-2-4	'2-4	10/27/2006	0.0280 U	0.0200 U			0.109		0.0190 U		
LHP-124-28-30	'28-30	10/31/2006	0.0330 U	0.0230 U			0.0290 U		0.0230 U		
LHP-125-.5-2	'0.5-2	10/27/2006	0.0270 U	0.0190 U			0.316		0.0190 U		
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0310 U	0.0210 U			0.0270 U		0.0210 U		
LHP-125-12-14	'12-14	11/1/2006	0.0280 U	0.0190 U			0.0240 U		0.0190 U		
LHP-125-4-6	'4-6	10/27/2006	0.0260 U	0.0180 U			0.0230 U		0.0180 U		
LHP-126-10.5-12	'10.5-12	11/1/2006	0.120 UJ	0.0800 UJ			0.100 UJ		0.0790 UJ		
LHP-126-14-16	'14-16	11/1/2006	0.0290 U	0.0200 U			0.0250 U		0.0200 U		
LHP-126-2-4	'2-4	10/26/2006	0.0260 U	0.0180 U			0.0230 UJ		0.0180 U		
LHP-126-8-10	'9-10	10/26/2006	0.0290 U	0.0200 U			0.0260 UJ		0.0200 U		
LHP-127-0-1	'0-1	12/6/2006	0.0250 U	0.0180 U			0.0220 U		0.0180 U		
LHP-127-3-5	'3-5	12/6/2006	0.0250 UJ	0.0180 U			0.0220 U		0.0170 U		
LHP-128-0-1	'0-4	12/6/2006	0.0250 UJ	0.0170 U			0.0709		0.0170 U		
LHP-128-7-8	'17-17	12/6/2006	0.0330 UJ	0.0230 U			0.0290 U		0.0230 U		
LP-1-0-0.5	'0-0.5	8/27/2001	0.750 U	0.190 U			0.0750 U		0.0750 U		
LP-10-0.5-2	'0.5-2	8/27/2001	0.840 U	0.131 J			0.0840 U		0.0840 U		
LP-10-0-0.5	'0-0.5	8/27/2001	0.760 U	0.262			0.0479 J		0.0760 U		
LP-101-11-13	'11-13	11/2/2006	0.0440 U	0.0310 U			0.0390 U		0.0310 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
LP-101-14-16	'14-16	11/2/2006	0.0390 U	0.0270 U			0.0340 U		0.0270 U		
LP-101-26-28	'26-28	11/2/2006	0.0280 U	0.0190 U			0.0250 U		0.0190 U		
LP-101-50-52	'50-52	11/2/2006	0.0270 U	0.0190 U			0.0240 U		0.0190 U		
LP-11-0-0.5	'0-0.5	8/27/2001	0.840 U	0.0653 J			0.0840 U		0.0840 U		
LP-12-0-0.5	'0-0.5	8/27/2001	0.740 U	0.180 U			0.0740 U		0.0740 U		
LP-12-4-6	'4-6	8/27/2001	0.730 U	0.180 U			0.0730 U		0.0730 U		
LP-13-0-0.5	'0-0.5	8/24/2001	0.840 U	0.156 J			0.122		0.0840 U		
LP-14-0.5-2	'0.5-2	8/24/2001	0.710 U	0.180 U			0.0474 J		0.0710 U		
LP-14-0-0.5	'0-0.5	8/24/2001	3.70 U	0.920 U			0.0992 J		0.370 U		
LP-15-0-0.5	'0-0.5	8/24/2001	0.760 U	0.0672 J			0.0596 J		0.0760 U		
LP-16-0.5-2	'0.5-2	8/27/2001	3.60 U	0.910 U			0.360 U		0.360 U		
LP-16-0-0.5	'0-0.5	8/27/2001	0.770 U	0.135 J			0.0479 J		0.0770 U		
LP-2-0.5-2	'0.5-2	8/28/2001	0.760 U	0.0426 J			0.0760 U		0.0760 U		
LP-2-0-0.5	'0-0.5	8/28/2001	0.750 U	0.332			0.0750 UJ		0.0750 U		
LP-3-0-0.5	'0-0.5	8/27/2001	0.710 U	0.180 U			0.114		0.0710 U		
LP-4 .5-2	'0.5-2	8/21/2001	0.740 U	0.0316 J			0.111 UJ		0.0740 U		
LP-4 0-.5	'0-0.5	8/21/2001	0.800 U	0.163 J			0.0537 J		0.0800 U		
LP-5-0-0.5	'0-0.5	8/27/2001	0.750 U	0.151 J			0.0666 J		0.0750 U		
LP-6-0-0.5	'0-0.5	8/27/2001	0.730 U	0.180 U			0.0730 U		0.0730 U		
LP-6-4-6	'4-6	8/27/2001	0.740 U	0.180 U			0.0740 UJ		0.0740 U		
LP-7-0-0.5	'0-0.5	8/24/2001	0.780 U	0.185 J			0.200		0.0780 U		
LP-8-0-0.5	'0-0.5	8/24/2001	0.810 U	0.200 U			0.0354 J		0.0810 U		
LP-8-10-12	'10-12	8/24/2001	1.10 U	0.280 U			0.110 U		0.110 U		
LP-9-0-0.5	'0-0.5	8/24/2001	3.70 U	0.920 U			0.370 U		0.370 U		
MW-11D-12-14	'12-14	12/14/2006	0.0430 U	0.0728 J			0.0380 U		0.0290 U		
MW-11D-14-16	'14-16	12/14/2006	0.0290 U	0.0200 U			0.0250 U		0.0200 U		
MW-11D-16-18	'16-18	12/14/2006	0.0280 U	0.0200 U			0.0250 U		0.0200 U		
MW-14D-13-15	'13-15	11/14/2006	0.0310 U	0.0210 U			0.0270 U		0.0210 U		
MW-14D-17-19	'17-19	11/14/2006	0.0280 U	0.0200 U			0.0250 U		0.0200 U		
MW-16D-13-15	'13-15	11/17/2006	0.0270 U	0.0190 U			0.0240 U		0.0190 U		
MW-16D-17-19	'17-19	11/20/2006	0.0280 U	0.0190 U			0.0250 U		0.0190 U		
MW-17D-15-17	'15-17	11/10/2006	0.0300 UJ	0.0210 U			0.0707 J		0.0210 U		
MW-17D-17-19	'17-19	11/10/2006	0.0280 UJ	0.0190 U			0.0250 U		0.0190 U		
MW-18D-13-15	'13-15	11/13/2006	0.0300 U	0.0210 U			0.0270 U		0.0210 U		
MW-18D-17-19	'17-19	11/13/2006	0.0270 U	0.0190 U			0.0240 U		0.0190 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
MW-20D-12-14	'12-14	11/9/2006	0.0290 U	0.0200 U			0.0260 U		0.0200 U		
MW-20D-32-34	'32-32.9	11/10/2006	0.0270 UJ	0.0190 U			0.0240 U		0.0190 U		
MW-20D-36-38	'36-38	11/10/2006	0.0280 UJ	0.0190 U			0.0250 U		0.0190 U		
MW-21D-13-15	'13-13.7	11/16/2006	0.0300 U	0.0210 U			0.0260 U		0.0210 U		
MW-21D-15-17	'15-17	11/16/2006	0.0280 U	0.0200 U			0.0250 U		0.0190 U		
MW-23D-15-17	'15-16	11/15/2006	0.0300 U	0.0210 U			0.0260 U		0.0200 U		
MW-23D-37-39	'37-37.9	11/15/2006	0.0270 U	0.0190 U			0.0240 U		0.0190 U		
MW-25D-10-12	'10-12	11/21/2006	0.0500 U	0.0350 U			0.0450 U		0.0350 U		
MW-25D-33-35	'33-35	12/18/2006	0.0300 U	0.0210 U			0.0270 U		0.0210 U		
MW-26S-8-10	'8-10	10/26/2006	0.0320 U	0.0220 U			0.0280 UJ		0.0220 U		
MW-6D-0-2	'0-2	11/8/2006	0.0270 UJ	0.0230 J			0.0240 U		0.0190 U		
MW-6D-12-14	'12-14	11/8/2006	0.0630 U	0.0440 U			0.0560 U		0.0440 U		
MW-6D-16-18	'16-18	11/20/2006	0.0440 U	0.0310 U			0.0390 U		0.0310 U		
MW-6D-30-32	'30-32	11/21/2006	0.0280 U	0.0200 U			0.0250 U		0.0190 U		
PCA-1-0-.5	'0-2	7/17/2001	3.60 U	0.900 U			0.360 U		0.360 U		
PCA-1-4-6	'4-6	7/17/2001	0.800 U	0.200 U			0.0800 U		0.0800 U		
PCA-2-0-.5	'0-0.5	7/17/2001	0.730 U	0.180 U			0.0730 U		0.0730 U		
PCA-3-0-0.5	'0-0.5	9/13/2001	1.60 U	0.390 U			0.137 J		0.160 U		
PCA-3-4-6	'4-6	9/13/2001	0.850 U	0.210 U			0.0855		0.0850 U		
PCA-4-0-0.5	'0-0.5	9/13/2001	3.80 U	0.950 U			0.380 U		0.380 U		
PCA-4-4-6	'4-6	9/26/2001	0.830 U	0.210 U			0.0830 U		0.0830 U		
PCA-5-0.5-2	'0.5-2	9/7/2001	0.780 U	0.130 J			0.0257 J		0.0780 U		
PCA-5-0-0.5	'0-0.5	9/7/2001	0.850 U	0.210 U			0.0850 U		0.0850 U		
PCA-6-0-0.5	'0-0.5	9/7/2001	0.710 U	0.191			0.105 J		0.0710 U		
RR-1 0-0.5	'0-0.5	8/22/2001	0.740 U	0.180 U			0.821		0.0740 U		
RR-1 14-16	'14-16	8/22/2001	0.820 U	0.200 U			0.0820 U		0.0820 U		
RR-10 0-.5	'0-0.5	10/12/2001	0.740 U	0.180 U			0.145		0.0740 U		
RR-11 0-.5	'0-0.5	10/12/2001	0.800 U	0.200 U			0.0774 J		0.0800 U		
RR-12 0-.5	'0-0.5	10/12/2001	0.780 U	0.200 U			0.0726 J		0.0780 U		
RR-2-0-0.5	'0-0.5	9/13/2001	4.20 U	1.00 U			0.420 U		0.420 U		
RR-2-8-10	'8-10	9/13/2001	0.990 U	0.250 U			0.0633 J		0.0990 U		
RR-3-0-0.5	'0-0.5	9/13/2001	0.720 U	0.180 U			0.0720 U		0.0720 U		
RR-4-0-0.5	'0-0.5	9/10/2001	0.800 U	0.200 U		0.410 JN	1.16 J		0.0800 U		
RR-4-6-8	'6-8	9/13/2001	0.770 U	0.190 U			0.0688 J		0.0770 U		
RR-5-0-0.5	'0-0.5	9/10/2001	0.690 U	0.0694 J			0.168		0.0690 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
RR-6-0-0.5	'0-0.5	9/10/2001	0.720 U	0.180 U			0.482		0.0720 U		
RR-6-8-10	'8-10	9/10/2001	0.760 U	0.190 U			0.0922		0.0760 U		
RR-7-0-0.5	'0-0.5	9/10/2001	0.760 U	0.190 U			0.0760 UJ		0.0760 U		
RR-8-0-0.5	'0-0.5	9/26/2001	0.860 U	0.220 U			0.236		0.0860 U		
RR-8-6-8	'6-8	9/26/2001	1.40 U	0.340 U			0.140 U		0.140 U		
RR-9 0-.5	'0-0.5	10/12/2001	0.730 U	0.180 U			0.127		0.0730 U		
SC-1	'0-1	8/21/2001	0.900 U	0.220 U			0.0900 UJ		0.0900 U		
SC-2	'0-1	8/22/2001	0.700 U	0.170 U			0.0706		0.0700 U		
SC-3	'0-1	8/22/2001	0.780 U	0.200 U			0.0544 J		0.0780 U		
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.770 U	0.190 U			0.0770 UJ		0.0770 U		
SILO-B1-6-8	'6-8	9/6/2001	3.00 U	0.740 U			0.482		0.300 U		
SILO-B2-0-0.5	'0-0.5	9/6/2001	3.60 U	0.629 J			0.360 U		0.360 U		
SILO-B3-0-0.5	'0-0.5	9/6/2001	4.10 U	1.00 U			0.410 UJ		0.410 U		
SILO-B3-6-8	'6-8	9/6/2001	0.740 U	0.180 U			0.0740 U		0.0740 U		
SILO-B4-0-0.5	'0-0.5	9/6/2001	4.20 U	1.00 U			0.420 UJ		0.420 U		
SPR-1-0-0.5	'0-0.5	9/5/2001	3.80 U	0.960 U			0.380 U		0.380 U		3.30 JN
SPR-1-8-10	'8-10	9/5/2001	1.00 U	0.260 U			0.100 U		0.100 U		
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.750 U	0.190 U			0.0689 J		0.0750 U		
SPR-2A-8-10	'8-10	7/19/2001	0.880 U	0.220 U			0.0880 U		0.0880 U		
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.720 U	0.180 U			0.0720 U		0.0720 U		
SPR-2B-10-12	'10-12	7/19/2001	1.00 U	0.250 U			0.100 U		0.100 U		
SPR-3 0-.5	'0-0.5	8/21/2001	0.720 U	0.180 U			0.0321 J		0.0720 U		
SPR-3 4-6	'4-6	8/21/2001	0.860 U	0.210 U			0.0860 U		0.0860 U		
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.810 U	0.200 U			0.305		0.0810 U		
SPR-4A-8-10	'8-10	7/19/2001	1.10 U	0.280 U			0.110 U		0.110 U		
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.800 U	0.200 U			0.0800 U		0.0800 U		
SPR-4B-4-6	'4-6	8/23/2001	0.800 U	0.200 U			0.0800 U		0.0800 U		
SPR-4C-0-0.5	'0-0.5	8/23/2001	3.70 U	0.507 J			0.370 U		0.370 U		
SPR-4C-4-6	'4-6	8/23/2001	0.860 U	0.220 U			0.0860 U		0.0860 U		
SPR-5-0-0.5	'0-0.5	9/5/2001	21.0 U	5.20 U			32.1		2.10 U		
SPR-5-2-4	'2-4	9/5/2001	0.860 U	0.220 U			0.0860 U		0.0860 U		
SPR-6-0.5-2	'0.5-2	9/13/2001	0.750 U	0.190 U			0.241		0.0750 U		
SPR-6-0-0.5	'0-0.5	9/13/2001	0.680 U	0.170 U			0.0680 U		0.0680 U		
SR-1-0-.5	'0-0.5	7/17/2001	0.710 U	0.206			0.107		0.0710 U		
SR-2-0-.5	'0-0.5	7/17/2001	0.680 U	0.170 U			0.0680 U		0.0680 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
ST-1-0-0.5	'0-0.5	9/5/2001	4.00 U	1.00 U			0.400 U		0.400 U		
ST-2-0-0.5	'0-0.5	9/5/2001	4.00 U	1.00 U			0.582		0.400 U		
ST-3-0-0.5	'0-0.5	9/4/2001	0.790 U	0.200 U			0.0790 U		0.0790 U		
ST-3-4-6	'4-6	9/4/2001	1.00 U	0.260 U			0.652		0.100 U		
TES-1-0-1	'0-1	12/5/2006	0.140 UJ	0.0960 U			1.09		0.0950 U		
TES-2-0-1	'0-1	12/4/2006	0.290 U	0.210 U			0.260 UJ		0.200 U		
TES-3-0-1	'0-1	12/4/2006	0.150 U	0.240 J			0.130 U		0.100 U		
TES-4-0-1	'0-1	12/5/2006	0.0260 UJ	0.0180 U			0.193 J		0.0180 U		
TLN-1 .5-2	'0.5-2	8/20/2001	0.840 U	0.210 U			0.0633 J		0.0840 U		
TLN-1 0-.5	'0-0.5	8/20/2001	0.830 U	0.210 U			0.0769 J		0.0830 U		
TLN-2-0-0.5	'0-0.5	7/19/2001	0.740 U	0.180 U			0.0740 U		0.0740 U		
TLN-3-0-.5	'0-0.5	7/17/2001	3.40 U	0.860 U			1.83		0.340 U		
TLN-3-2-4	'2-4	7/17/2001	0.780 U	0.190 U			0.0780 U		0.0780 U		
TLN-4 0-.5	'0-0.5	8/20/2001	0.690 U	0.0816 J			0.0690 U		0.0690 U		
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.730 U	0.0653 J			0.0730 U		0.0730 U		
TLN-5 .5-2	'0.5-2	8/20/2001	0.720 U	0.180 U			0.102		0.0720 U		
TLN-5 0-.5	'0-0.5	8/20/2001	0.720 U	0.180 U			0.196		0.0720 U		
TLN-5-4-6	'4-6	8/30/2001	0.730 U	0.180 U			0.109		0.0730 U		
TLN-6 0-.5	'0-0.5	8/20/2001	0.720 U	0.180 U			0.203		0.0720 U		
TLS-10 0-.5	'0-0.5	8/21/2001	0.780 U	0.190 U			0.0780 U		0.0780 U		
TLS-10 8-10	'8-10	8/21/2001	0.970 U	0.240 U			0.0970 U		0.0970 U		
TLS-1-0-0.5	'0-0.5	9/5/2001	3.90 U	0.970 U			0.390 U		0.390 U		
TLS-11-0-0.5	'0-0.5	9/7/2001	0.750 U	0.190 U			0.0750 UJ		0.0750 U		
TLS-2-0-0.5	'0-0.5	9/7/2001	3.70 U	0.940 U			0.370 UJ		0.370 U		
TLS-2-6-8	'6-8	9/7/2001	1.20 U	0.290 U			0.120 U		0.120 U		
TLS-3 0-.5	'0-0.5	8/21/2001	0.740 U	0.180 U			0.0354 J		0.0740 U		
TLS-4-0-0.5	'0-0.5	9/7/2001	0.730 U	0.0892 J			0.0588 J		0.0730 U		
TLS-4-8-10	'8-10	9/7/2001	1.10 U	0.280 U			0.110 U		0.110 U		
TLS-5 0-0.5	'0-0.5	8/21/2001	0.710 U	0.0984 J			0.0710 U		0.0710 U		
TLS-5-8-10	'8-10	9/26/2001	1.00 U	0.260 U	0.210 JN		0.100 U		0.100 U		
TLS-6 0-.5	'0-0.5	8/21/2001	0.900 U	0.0684 J			0.0464 J		0.0900 U		
TLS-6-3-5	'3-5	9/26/2001	89.0 U	22.0 U			8.90 UJ		8.90 U		
TLS-7 0-.5	'0-0.5	8/21/2001	0.990 U	0.994			0.102		0.0990 U		
TLS-8-0-0.5	'0-0.5	9/7/2001	0.760 U	0.190 U			0.0622 J		0.0760 U		
TLS-8-6-8	'6-8	9/7/2001	0.870 U	0.220 U			0.0307 J		0.0870 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexa-chloro-cyclopentadiene mg/kg	Hexa-chloroethane mg/kg	Indane mg/kg	Indene mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Indeno_2',1':4,5_thieno_3,2-B_thiopyran mg/kg	Isophorone mg/kg	Isoquinoline mg/kg	Limonene mg/kg
TLS-9 0-.5	'0-0.5	8/21/2001	3.60 U	0.910 U			0.360 UJ		0.360 U		
TP-105	'0-0	6/8/2007	0.0240 U	0.0170 U			0.0845		0.0170 U		
TP-105A	'0-0	6/8/2007	0.0240 U	0.0170 U			0.0210 U		0.0160 U		
TP-106-A	'0-0	6/8/2007	0.0250 U	0.0170 U			0.0722		0.0170 U		
TP-106-B	'0-0	6/8/2007	0.0240 U	0.0170 U			0.0210 U		0.0170 U		
WWT-1-0-0.5	'0-0.5	7/19/2001	3.90 U	0.980 U			0.390 UJ		0.390 U		
WWT-101-15-17	'15-17	11/6/2006	0.0300 U	0.0210 U			0.0260 U		0.0210 U		
WWT-101-21-23	'21-23	11/6/2006	0.0280 U	0.0200 U			0.0250 U		0.0200 U		
WWT-1-12-14	'12-14	8/23/2001	52.0 U	13.0 U			5.20 U		5.20 U		
WWT-2-0-0.5	'0-0.5	8/23/2001	0.720 U	0.0963 J			0.0720 UJ		0.0720 U		
WWT-2-12-14	'12-14	8/23/2001	2.50 U	0.750			0.250 UJ		0.250 U		
WWT-3-0-0.5	'0-0.5	8/23/2001	3.60 U	0.900 U			0.360 U		0.360 U		
WWT-3-12-14	'12-14	8/23/2001	1.60 U	0.390 U			0.160 U		0.160 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
SRS						16					340
12K-B1-0.5-2	'0.5-2	9/6/2001				0.0850 U					0.0850 U
12K-B1-0-0.5	'0-0.5	9/6/2001				0.0920					0.0790 U
12K-B2-0.5-2	'0.5-2	9/6/2001				0.0790 U					0.0790 U
12K-B2-0-0.5	'0-0.5	9/6/2001				0.0810 U					0.0810 U
150K-1-0.5-2	'0.5-2	9/10/2001				0.0315 J					0.0770 U
150K-1-0-0.5	'0-0.5	9/10/2001				0.219 J					0.400 U
230-B1-0.5	'0-0.5	10/2/2001				0.0312 J					0.0790 U
230-B10-0-0.5	'0-0.5	8/30/2001				0.349					0.0990 U
230-B10-1.5-2	'1.5-2	8/30/2001				0.275					0.0860 U
230-B11-0-0.5	'0-0.5	8/30/2001				0.0356 J					0.0720 U
230-B11-1.5-2	'1.5-2	8/30/2001				0.0329 J					0.0720 U
230-B1-4-6	'4-6	10/2/2001				0.238 J					0.390 U
230-B2-0-0.5	'0-0.5	8/30/2001				0.329				0.170 JN	0.0800 U
230-B2-1.5-2	'1.5-2	8/30/2001				0.342					0.0720 U
230-B3-0-0.5	'0-0.5	8/30/2001				0.0760 U					0.0760 U
230-B3-1.5-2	'1.5-2	8/30/2001				0.427					0.0780 U
230-B4-0-0.5	'0-0.5	8/30/2001				0.0219 J					0.0800 U
230-B4-1.5-2	'1.5-2	8/30/2001				0.152					0.0760 U
230-B5-0-0.5	'0-0.5	9/13/2001				0.0636 J					0.0800 U
230-B5-1.5-2	'1.5-2	9/13/2001				0.165					0.0750 U
230-B6 0-0.5	'0-0.5	8/22/2001				0.0760 U				0.610 JN	0.0760 U
230-B6 1.5-2	'1.5-2	8/22/2001				0.0532 J					0.0760 U
230-B7 0-0.5	'0-0.5	8/22/2001				0.0810 U				1.50 JN	0.0810 U
230-B7 1.5-2	'1.5-2	8/22/2001				0.0820 U					0.0820 U
230-B8 1.5-2	'1.5-2	8/22/2001				0.841					0.0830 U
230-B9 0-0.5	'0-0.5	8/22/2001				0.0710 U					0.0710 U
230-B9 0-0.5	'0-0.5	8/22/2001				0.0770 U				0.550 JN	0.0770 U
230-B9 1.5-2	'1.5-2	8/22/2001				0.0750 U					0.0750 U
231-B1-0-0.5	'0-0.5	10/5/2001	0.250 JN			0.0449 J					0.0750 U
231-B10-0-0.5	'0-0.5	9/17/2001				0.0830 U					0.0830 U
231-B11-0-0.5	'0-0.5	9/19/2001				0.0940 U					0.0940 U
231-B11-8-10	'8-10	9/19/2001				0.0580 J					0.0850 U
231-B12-0-0.5	'0-0.5	9/17/2001				0.0750 U					0.0750 U
231-B13-0-0.5	'0-0.5	9/19/2001				0.390 U					0.390 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
231-B13-8-10	'9-10	9/27/2001				0.127					0.0770 U
231-B14-0-0.5	'0-0.5	9/19/2001				0.0820 U					0.0820 U
231-B2-0.5-2	'0.5-2	8/22/2001	0.820 JN			0.144					0.0740 U
231-B2-0-0.5	'0-0.5	8/22/2001	1.60 JN			0.142					0.0740 U
231-B3-0-0.5	'0-0.5	8/22/2001				0.0770 U					0.0770 U
231-B4-0-0.5	'0-0.5	8/30/2001				0.0770 U					0.0770 U
231-B4-6-8	'6-8	9/27/2001				5.33					0.0800 U
231-B5-0.5-2	'0.5-2	9/19/2001				0.0840 U					0.0840 U
231-B6-0-0.5	'0-0.5	9/27/2001	1.30 JN			0.612					0.0910 U
231-B6-4-6	'4-6	9/27/2001				0.0750 U					0.0750 U
231-B7-0-0.5	'0-0.5	9/13/2001				0.410 U					0.410 U
231-B8-0-0.5	'0-0.5	9/27/2001				0.0733 J					0.160 UJ
231-B8-8-10	'8-10	9/27/2001				49.1					6.50 U
231-B9-0.5-2	'0.5-2	9/27/2001				0.0640 J					0.0940 U
231-B9-0-0.5	'0-0.5	9/27/2001				0.470 U					0.470 U
240-1-0-0.5	'0-0.5	9/26/2001				0.0824					0.0810 U
240-1-8-10	'8-10	10/1/2001				0.0810 U					0.0810 U
5K-B1-0-0.5	'0-0.5	10/1/2001				0.410 U					0.410 U
5K-B2-0-0.5	'0-0.5	8/31/2001				0.0710 U					0.0710 U
5K-B2-8-10	'8-10	8/31/2001				0.518				0.570 JN	0.0820 U
5K-B3-0-0.5	'0-0.5	9/26/2001				0.0647 J					0.0882
5K-B4-0-0.5	'0-0.5	10/1/2001				0.658					0.460 U
5K-B4-4-6	'4-6	10/1/2001				99.6					0.550 U
5K-B5-0-0.5	'0-0.5	8/31/2001	3.10 JN			0.738					0.0780 U
5K-B5-4-6	'4-6	9/26/2001	3.00 JN			5.07					0.0870 U
AB-1-0-0.5	'0-0.5	9/4/2001				1.66					0.0780 U
AB-2-0.5-2	'0.5-2	9/4/2001	0.560 JN			0.117					0.366
AB-2-0-0.5	'0-0.5	9/4/2001				0.0288 J				0.250 JN	0.0810 U
ADN-1-0-0.5	'0-0.5	9/5/2001				0.266					0.0760 U
ADN-1-8-10	'8-10	9/5/2001				2.82					0.0960 U
ADN-2-0-0.5	'0-0.5	9/5/2001				0.0820 U					0.0820 U
ADN-2-10-11	'10-11	9/27/2001				0.0800 U					0.0800 U
ADS-1-0-.5	'0-0.5	7/17/2001				0.111 J					0.370 U
ADS-10-0-0.5	'0-2	7/18/2001				0.153					0.0770 U
ADS-101-0-1	'0-1	12/5/2006				0.0231 J					0.0270 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
ADS-101-1-3	'1-3	12/5/2006				0.0210 U					0.0260 U
ADS-102-0-1.5	'0-2	12/5/2006				0.234					0.0260 U
ADS-102-7-8	'4-8	12/5/2006				0.0230 U					0.0280 U
ADS-10-4-6	'4-6	7/18/2001				0.0352 J					0.0950 U
ADS-11-0-0.5	'0-2	7/18/2001				0.118				0.600 JN	0.0760 U
ADS-12-0.5-2	'0.5-2	7/18/2001				0.0870 U					0.0870 U
ADS-12-0-0.5	'0-0.5	7/18/2001				0.0850 U					0.0850 U
ADS-2-0-0.5	'0-0.5	7/18/2001				0.0800 U					0.0800 U
ADS-2-4-6	'4-6	7/18/2001				0.0810 U					0.0810 U
ADS-3-0-0.5	'0-0.5	7/18/2001				0.0482 J					0.0780 U
ADS-4-0-0.5	'0-2	7/18/2001				0.204					0.0770 U
ADS-4-12-14	'12-14	7/18/2001				1.69					1.46
ADS-5-0-0.5	'0-0.5	7/18/2001				0.360 U					0.360 U
ADS-5-4-6	'4-6	9/27/2001				0.0740 U					0.0740 U
ADS-6-0.5-2	'0.5-2	7/18/2001				0.277					0.0760 U
ADS-6-0-0.5	'0-0.5	7/18/2001				0.380 U					0.380 U
ADS-7-0-.5	'0-0.5	7/17/2001				0.360 U					0.360 U
ADS-8-0-0.5	'0-0.5	7/18/2001				0.0820 U					0.0820 U
ADS-8-4-6	'4-6	7/18/2001				0.159					0.0830 U
ADS-9-0-0.5	'0-0.5	7/18/2001				0.0860 U					0.0860 U
BLIND DUP	'0-0	8/21/2001				0.0710 U					0.0710 U
BSL-10-0-1	'0-1	9/21/2001				0.0990 U					0.0990 U
BSL-1-0-1	'0-1	9/20/2001				0.0790 U					0.0790 U
BSL-11-0-1	'0-1	9/26/2001				0.0960 U					0.0960 U
BSL-12-0-1	'0-1	9/26/2001				0.0760 U					0.0760 U
BSL-1-4-6	'4-6	9/20/2001				0.0980 U					0.0980 U
BSL-2-0-1	'0-1	9/21/2001				0.100 U					0.100 U
BSL-3-0-0.5	'0-0.5	9/20/2001				0.0710 U				0.250 JN	0.0710 U
BSL-4-0-1	'0-0.5	9/21/2001				0.0860 U					0.0860 U
BSL-4-4-6	'4-6	9/21/2001				0.140 U					0.140 U
BSL-5-0-.5	'0-0.5	9/21/2001				0.0820 U					0.0820 U
BSL-6-0-1	'0-1	9/26/2001				0.110 U					0.110 U
BSL-6-1-2	'1-2	9/26/2001				0.130 U					0.130 U
BSL-7-0-.5	'0-0.5	9/21/2001				0.0980 U					0.0980 U
BSL-8-0-1	'0-1	9/26/2001				0.120 U				0.280 JN	0.120 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
BSL-9-.5-2	'0.5-2	9/21/2001				0.110 U					0.110 U
BSL-9-0-.5	'0-0.5	9/21/2001				0.0840 U					0.0840 U
BT-B1-0-0.5	'0-0.5	9/18/2001				0.0810 U					0.0810 U
BT-B2-0.5-2	'0.5-2	9/18/2001				0.0790 U					0.0790 U
BT-B2-0-0.5	'0-0.5	9/18/2001				0.0660 J					0.0860 U
BT-B3-0-0.5	'0-0.5	9/18/2001				0.390 U					0.390 U
BT-B4-0.5-2	'0.5-2	8/30/2001				0.0460 J					0.0770 U
BT-B4-0-0.5	'0-0.5	8/30/2001				0.340 U			0.730 JN		0.340 U
BT-B5-0-.5	'0-0.5	10/2/2001				0.0222 J					0.0810 U
BT-B6-0.5-2	'0.5-2	9/17/2001				0.0475 J					0.0880 U
BT-B6-0-0.5	'0-0.5	9/17/2001				0.340 U					0.340 U
CF-1-0-0.5	'0-0.5	8/31/2001				0.0740 U					0.0740 U
CF-1-2-4	'2-4	8/31/2001				0.0707 J					0.0740 U
CF-2-0-0.5	'0-0.5	8/28/2001				0.0820 U					0.0820 U
CF-3-0.5-2	'0.5-2	8/28/2001				0.130 U					0.130 U
CF-3-0-0.5	'0-0.5	8/28/2001				0.0990 U					0.0990 U
CF-4-0-0.5	'0-0.5	8/28/2001				0.0870 U					0.0870 U
CF-5-0-0.5	'0-0.5	8/28/2001				0.0700 U					0.0700 U
CF-5-4-6	'4-6	8/28/2001				0.0750 U					0.0750 U
CF-6-0-0.5	'0-0.5	8/28/2001				0.0770 U					0.0770 U
CF-7-0-0.5	'0-0.5	8/28/2001				0.0750 U					0.0750 U
CF-7-4-6	'4-6	8/28/2001				0.104					0.0700 U
CF-8-0-0.5	'0-0.5	8/28/2001				0.0464 J					0.0770 U
CF-9-0.5-2	'0.5-2	8/31/2001				0.0720 U					0.0720 U
CF-9-0-0.5	'0-0.5	8/31/2001				0.0740 U					0.0740 U
DC-B12-0-0.5	'0-0.5	10/3/2001				7.87					0.0760 U
DC-B12-2-4	'2-4	10/3/2001				0.115					0.0730 U
DC-SS1-0-0.5	'0-0.5	9/18/2001				0.0730 U					0.0730 U
DC-SS11-0-0.5	'0-0.5	9/17/2001				51.2					0.370 U
DC-SS13-0-0.5	'0-0.5	9/17/2001				0.350 U					0.350 U
DC-SS15-0-0.5	'0-0.5	9/17/2001				0.374 J					0.410 U
DC-SS17-0-0.5	'0-0.5	9/17/2001				0.901					0.0850 U
DC-SS2-0-0.5	'0-0.5	9/17/2001				0.0740 U					0.0740 U
DC-SS3-0-0.5	'0-0.5	9/17/2001				0.0363 J				1.20 JN	0.0880 U
DC-SS6-0-0.5	'0-0.5	9/17/2001				0.106					0.0750 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
DC-SS7-0-0.5	'0-0.5	9/17/2001				0.0760 U					0.0760 U
DC-SS9-0-0.5	'0-0.5	9/17/2001				0.0328 J				0.280 JN	0.0760 U
DSP-1-0-0.5	'0-0.5	10/3/2001				0.0820 U					0.0820 U
DSP-1-4-6	'4-6	11/19/2001				0.0820 U					0.0820 U
DSP-2-0-0.5	'0-0.5	9/4/2001				0.0740 U					0.0740 U
DSP-3-0-0.5	'0-0.5	9/4/2001				0.243 J					0.380 U
DSP-3-2-4	'2-4	9/4/2001				0.0830 U					0.0830 U
DSP-4-0-0.5	'0-0.5	9/4/2001				0.0850 U					0.0850 U
DSP-4-4-6	'4-6	9/26/2001				0.0481 J					0.0860 U
DUP-01-010824	'0-0.5	8/24/2001				0.156				0.280 JN	0.0770 U
DUP-01-010831	'2-4	8/31/2001				0.0510 J					0.0750 U
DUP-01-010904	'0-0.5	9/4/2001				0.370 U					0.370 U
DUP-01-010905	'8-10	9/5/2001				3.95					0.0840 U
DUP-01-010906	'0-8	9/6/2001				158.					0.310 U
DUP-01-010913	'0-0.5	9/13/2001				0.380 U					0.380 U
DUP-01-010917	'0-0.5	9/17/2001				0.113					0.0770 U
DUP-01-010926	'1-2	9/26/2001				0.0361 J					0.130 U
DUP-01-010927	'4-6	9/27/2001				0.0740 U					0.0740 U
DUP-01-021001	'0-0	10/2/2001				0.0232 J				0.230 JN	0.0750 U
DUP-01-08 2201	'1.5-2	8/22/2001				0.0800 U					0.0800 U
DUP-01-121001	'0-0	10/12/2001				0.0204 J					0.0770 U
DUP-01-170402	'0-0	4/17/2002				0.437					0.180 U
DUP-02-010913	'0-0.5	9/13/2001				0.430 U					0.430 U
DUP-02-010921	'0-1	9/21/2001				0.0910 U					0.0910 U
DUP-02-010926	'4-6	9/26/2001				8.21					0.0900 U
DUP060807	'0-0	6/8/2007				0.0190 U					0.0240 U
DUP-1-010828	'0-0.5	8/28/2001				0.0770 U					0.0770 U
DUP-1-010921	'0-0.5	9/21/2001				0.100 U					0.100 U
DUP110606	'15-17	11/6/2006				0.0240 U					0.0290 U
DUP112006	'16-18	11/20/2006				0.0370 U					0.0460 U
DUP112106	'10-12	11/21/2006				0.0390 U					0.0480 U
DUP-120506	'0-4	12/5/2006				0.0570 U					0.0710 U
DUP-120606	'0-4	12/6/2006				0.109					0.0240 U
DUPE071801	'0-0.5	7/18/2001				0.0740 U					0.0740 U
EC-1	'0-1	8/21/2001				0.0760 U					0.0760 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
EC-2	'0-1	8/21/2001				0.0750 U					0.0750 U
EC-3	'0-1	8/21/2001				0.0710 U					0.0710 U
EC-4	'0-1	8/21/2001				0.0740 U					0.0740 U
EC-5	'0-1	8/21/2001				0.0740 U					0.0740 U
EC-6	'0-1	8/21/2001				0.0820 U				0.420 JN	0.0820 U
EC-7	'0-1	8/21/2001				0.0800 U					0.0800 U
EC-8	'0-1	8/21/2001				0.0740 U					0.0740 U
EC-9	'0-1	8/21/2001				0.0870 U					0.0870 U
ESR-1-0-1	'0-0.5	9/4/2001				0.0710 U					0.0710 U
ESR-1-4-6	'4-6	9/4/2001				0.0830 U					0.0830 U
HB-101A	'17-17	3/5/2007				0.177					0.0270 U
HB-102A	'0-0	3/13/2007				0.0340 U					0.0420 U
HB-102B	'0-0	3/14/2007				0.154					0.0280 U
HB-102C	'0-0	3/14/2007				0.0210 U					0.0260 U
H-B-103A	'17-17	2/20/2007				0.273					0.0370 U
H-B-104A	'17-17	2/23/2007				0.0449 J					0.0290 U
H-B-104B	'17-17	2/23/2007				0.0220 U					0.0270 U
H-B-104C	'17-17	2/23/2007				22.6					0.0290 U
H-B-104D	'17-17	2/27/2007				0.0383 J					0.0270 U
H-B-104E	'17-17	2/27/2007				1.09					0.0280 U
H-B-105C	'17-17	2/8/2007				0.0443 J					0.0260 U
H-B-105D	'17-17	2/8/2007				0.0230 U					0.0280 U
H-B-105E	'0-0	2/8/2007				0.0230 U					0.0280 U
HB-1A	'6.75-6.75	4/18/2002				14.6				1.10 JN	0.120 U
HB-3A	'5.25-5.25	4/17/2002				0.679					0.210 U
HB-3B	'4.5-4.5	4/17/2002				0.0780 U					0.0780 U
HB-3C	'4.5-4.5	4/18/2002				0.0770 U					0.0770 U
HB-3D	'4.5-4.5	4/18/2002				0.0800 U					0.0800 U
HB-4A	'5.33-5.33	4/19/2002				0.0923					0.0780 U
HB-5A	'3-3	4/22/2002				0.843					0.0830 U
HB-7A	'5-5	4/19/2002				0.398					0.0830 U
HB-8A	'3-3	4/23/2002				0.182					0.0800 U
HB-8B	'4.83-4.83	4/23/2002				0.366					0.0790 U
HB-8C	'5.5-5.5	4/23/2002				5.35					0.0820 U
HB-9A	'4.75-4.75	4/24/2002				2.47					0.0830 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
HF-B1-0-0.5	'0-0.5	9/10/2001				0.0800 U					0.0800 U
HF-B1-8-10	'8-10	9/10/2001				0.587					0.0930 U
HF-B2-0-0.5	'0-0.5	9/4/2001				0.0236 J					0.0740 U
HF-B2-4-6	'4-6	9/4/2001				0.0322 J					0.0740 U
HF-B3-0-.5	'0-0.5	10/2/2001				0.863					0.0576 J
HF-B3-8-10	'8-10	10/2/2001				0.0364 J					0.0760 U
IB-1-0-2	'0-2	4/8/2002				0.100					0.0780 U
IB-1-4-6	'4-6	4/8/2002				0.300					0.0780 U
IB-2-12-14	'12-14	4/8/2002				15.9					0.0840 U
IB-2-4-6	'4-6	4/8/2002				0.633					0.0780 U
IB-3-4-6	'4-6	4/8/2002				3.65					0.0850 U
IB-3-8-10	'8-10	4/8/2002				20.7					0.0890 U
LB-101-0-1	'0-1	12/6/2006				0.0200 U					0.0250 U
LB-101-1-3	'1-3	12/6/2006				0.0190 U					0.0240 U
LB-102-0-1	'0-3	12/6/2006				0.0210 U					0.0260 U
LB-102-1-3	'3-7	12/6/2006				0.0210 U					0.0260 U
LB-103-0-1	'0-1	12/6/2006				0.0200 U					0.0250 U
LB-103-5-7	'5-7	12/6/2006				0.0380 J					0.0290 U
LHP-101-0-1	'0-1	12/4/2006				0.100 U					0.130 U
LHP-101-5-8	'4-8	12/4/2006				0.145 J					0.0920 U
LHP-102-0-1	'0-1	12/5/2006				0.0317 J					0.0260 U
LHP-102-7-9	'7-9	12/5/2006				0.162					0.0320 U
LHP-103-0-1	'0-1	12/5/2006				0.110 U					0.130 U
LHP-103-1-3	'1-3	12/5/2006				0.0629 J					0.0280 U
LHP-104-0-1	'0-1	12/5/2006				0.0200 U					0.0240 U
LHP-104-7-9	'4-8	12/5/2006				0.0527 J					0.0270 U
LHP-105-0-1	'0-1	12/5/2006				0.0980 U					0.120 U
LHP-105-1-3	'1-3	12/5/2006				0.0200 U					0.0240 U
LHP-106-0-1	'0-1	12/4/2006				0.0970 U					0.120 U
LHP-106-1-3	'1-3	12/4/2006				0.120 U					0.150 U
LHP-107-0-1	'0-1	12/5/2006				0.0310 J					0.0250 U
LHP-107-5-7	'4-8	12/5/2006				0.0210 U					0.0270 U
LHP-108-0-1	'0-1	12/6/2006				0.0210 U					0.0260 U
LHP-108-3-7	'3-7	12/6/2006				0.0230 U					0.0280 U
LHP-109-0-1	'0-1	12/6/2006				0.0299 J					0.0270 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
LHP-109-7-9	'7-9	12/6/2006				0.0675 J					0.0320 U
LHP-110-0-1	'0-1	12/4/2006				0.210 U					0.260 U
LHP-111-0-1	'0-1	12/4/2006				0.0210 U					0.0260 U
LHP-112-0-1	'0-1	12/4/2006				0.180					0.0260 U
LHP-113-0-1	'0-1	12/4/2006				0.0267 J					0.0250 U
LHP-114-0-1	'0-1	12/4/2006				0.0200 U					0.0250 U
LHP-115-0-1	'0-1	12/4/2006				0.0200 U					0.0240 U
LHP-116-0-1	'0-1	12/4/2006				0.0210 U					0.0260 U
LHP-117-0-1	'0-1	12/4/2006				0.0220 U					0.0270 U
LHP-118-0-1	'0-1	12/4/2006				0.110 U					0.140 U
LHP-119-0-1	'0-1	12/4/2006				0.0286 J					0.0270 U
LHP-120-0-1	'0-1	12/4/2006				0.0986				0.220 JN	0.0300 U
LHP-121-0-1	'0-1	12/6/2006				0.0476 J					0.0260 U
LHP-122-0-1	'0-1	12/6/2006				0.0200 U					0.0250 U
LHP-123-0-1	'0-1	12/4/2006				0.0210 U					0.0270 U
LHP-124-.5-2	'0.5-2	10/27/2006				0.0220 U					0.0270 U
LHP-124-10-12	'10-12	10/31/2006				0.0350 U					0.0430 U
LHP-124-2-4	'2-4	10/27/2006				0.0220 U					0.0270 U
LHP-124-28-30	'28-30	10/31/2006				0.0260 U					0.0320 U
LHP-125-.5-2	'0.5-2	10/27/2006				0.0210 U					0.0260 U
LHP-125-10.5-12	'10.5-12	11/1/2006				0.0240 U					0.0300 U
LHP-125-12-14	'12-14	11/1/2006				0.0220 U					0.0270 U
LHP-125-4-6	'4-6	10/27/2006				0.0210 U					0.0260 U
LHP-126-10.5-12	'10.5-12	11/1/2006				0.0900 UJ					0.110 UJ
LHP-126-14-16	'14-16	11/1/2006				0.0220 U					0.0280 U
LHP-126-2-4	'2-4	10/26/2006				0.0589 J					0.0260 U
LHP-126-8-10	'9-10	10/26/2006				0.0583 J					0.0290 U
LHP-127-0-1	'0-1	12/6/2006				0.0933					0.0250 U
LHP-127-3-5	'3-5	12/6/2006				0.0209 J					0.0240 U
LHP-128-0-1	'0-4	12/6/2006				0.0953					0.0240 U
LHP-128-7-8	'17-17	12/6/2006				0.121					0.0320 U
LP-1-0-0.5	'0-0.5	8/27/2001	0.310 JN			0.0750 U				0.280 JN	0.0750 U
LP-10-0.5-2	'0.5-2	8/27/2001	0.410 JN			0.0840 U					0.0840 U
LP-10-0-0.5	'0-0.5	8/27/2001	0.650 JN			0.0380 J					0.0760 U
LP-101-11-13	'11-13	11/2/2006				0.0350 U					0.0430 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
LP-101-14-16	'14-16	11/2/2006				0.0300 U					0.0380 U
LP-101-26-28	'26-28	11/2/2006				0.0220 U					0.0270 U
LP-101-50-52	'50-52	11/2/2006				0.0210 U					0.0260 U
LP-11-0-0.5	'0-0.5	8/27/2001				0.0840 U					0.0840 U
LP-12-0-0.5	'0-0.5	8/27/2001				0.0740 U					0.0740 U
LP-12-4-6	'4-6	8/27/2001				0.0730 U					0.0730 U
LP-13-0-0.5	'0-0.5	8/24/2001				0.0798 J				0.250 JN	0.0840 U
LP-14-0.5-2	'0.5-2	8/24/2001				0.0324 J					0.0710 U
LP-14-0-0.5	'0-0.5	8/24/2001				0.370 U			2.30 JN		0.370 U
LP-15-0-0.5	'0-0.5	8/24/2001				0.0760 U				0.390 JN	0.0760 U
LP-16-0.5-2	'0.5-2	8/27/2001				0.360 U					0.360 U
LP-16-0-0.5	'0-0.5	8/27/2001				0.0770 U					0.0770 U
LP-2-0.5-2	'0.5-2	8/28/2001	1.30 JN			0.0891					0.0760 U
LP-2-0-0.5	'0-0.5	8/28/2001	12.0 JN			0.349					0.0750 U
LP-3-0-0.5	'0-0.5	8/27/2001				0.0710 U					0.0710 U
LP-4 .5-2	'0.5-2	8/21/2001	0.230 JN			0.0658 J		0.260 JN			0.0740 U
LP-4 0-.5	'0-0.5	8/21/2001				0.0800 U	0.170 JN	0.190 JN			0.0800 U
LP-5-0-0.5	'0-0.5	8/27/2001	0.910 JN			0.0375 J				0.360 JN	0.0750 U
LP-6-0-0.5	'0-0.5	8/27/2001				0.0730 U					0.0730 U
LP-6-4-6	'4-6	8/27/2001				0.0740 U					0.0740 U
LP-7-0-0.5	'0-0.5	8/24/2001	1.50 JN			0.0722 J					0.0780 U
LP-8-0-0.5	'0-0.5	8/24/2001				0.0292 J				0.260 JN	0.0810 U
LP-8-10-12	'10-12	8/24/2001				0.110 U					0.110 U
LP-9-0-0.5	'0-0.5	8/24/2001				0.370 U					0.370 U
MW-11D-12-14	'12-14	12/14/2006				0.890					0.0410 U
MW-11D-14-16	'14-16	12/14/2006				0.160					0.0280 U
MW-11D-16-18	'16-18	12/14/2006				0.0471 J					0.0280 U
MW-14D-13-15	'13-15	11/14/2006				0.0240 U					0.0300 U
MW-14D-17-19	'17-19	11/14/2006				0.0220 U					0.0280 U
MW-16D-13-15	'13-15	11/17/2006				0.0210 U					0.0270 U
MW-16D-17-19	'17-19	11/20/2006				0.0220 U					0.0270 U
MW-17D-15-17	'15-17	11/10/2006				0.410					0.0300 U
MW-17D-17-19	'17-19	11/10/2006				0.0220 U					0.0270 U
MW-18D-13-15	'13-15	11/13/2006				0.0240 U					0.0290 U
MW-18D-17-19	'17-19	11/13/2006				0.0220 U					0.0270 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
MW-20D-12-14	'12-14	11/9/2006				0.0230 U					0.0280 U
MW-20D-32-34	'32-32.9	11/10/2006				0.0220 U					0.0270 U
MW-20D-36-38	'36-38	11/10/2006				0.0220 U					0.0270 U
MW-21D-13-15	'13-13.7	11/16/2006				0.0534 J					0.0290 U
MW-21D-15-17	'15-17	11/16/2006				1.09					0.0270 U
MW-23D-15-17	'15-16	11/15/2006				0.0230 U					0.0290 U
MW-23D-37-39	'37-37.9	11/15/2006				0.0210 U					0.0270 U
MW-25D-10-12	'10-12	11/21/2006				0.0400 U					0.0490 U
MW-25D-33-35	'33-35	12/18/2006				0.0240 U					0.0290 U
MW-26S-8-10	'8-10	10/26/2006				19.1					0.0310 U
MW-6D-0-2	'0-2	11/8/2006				0.0210 U					0.0260 U
MW-6D-12-14	'12-14	11/8/2006				0.0490 U					0.0610 U
MW-6D-16-18	'16-18	11/20/2006				0.0350 U					0.0430 U
MW-6D-30-32	'30-32	11/21/2006				0.0220 U					0.0270 U
PCA-1-0-.5	'0-2	7/17/2001				0.360 U					0.360 U
PCA-1-4-6	'4-6	7/17/2001				0.0800 U					0.0800 U
PCA-2-0-.5	'0-0.5	7/17/2001				0.0730 U					0.0730 U
PCA-3-0-0.5	'0-0.5	9/13/2001				0.0836 J					0.160 U
PCA-3-4-6	'4-6	9/13/2001				0.143					0.0850 U
PCA-4-0-0.5	'0-0.5	9/13/2001				0.380 U					0.380 U
PCA-4-4-6	'4-6	9/26/2001				0.0830 U					0.0830 U
PCA-5-0.5-2	'0.5-2	9/7/2001				0.0780 U					0.0780 U
PCA-5-0-0.5	'0-0.5	9/7/2001				0.165					0.0850 U
PCA-6-0-0.5	'0-0.5	9/7/2001				0.0278 J				0.400 JN	0.0710 U
RR-1 0-0.5	'0-0.5	8/22/2001				0.0818					0.0740 U
RR-1 14-16	'14-16	8/22/2001				18.0					0.0820 U
RR-10 0-.5	'0-0.5	10/12/2001				0.0477 J					0.0740 U
RR-11 0-.5	'0-0.5	10/12/2001				0.0800 U					0.0800 U
RR-12 0-.5	'0-0.5	10/12/2001				0.0410 J					0.0780 U
RR-2-0-0.5	'0-0.5	9/13/2001				0.420 U					0.420 U
RR-2-8-10	'8-10	9/13/2001				0.0406 J					0.0990 U
RR-3-0-0.5	'0-0.5	9/13/2001				0.0720 U					0.0720 U
RR-4-0-0.5	'0-0.5	9/10/2001				0.158					0.0800 U
RR-4-6-8	'6-8	9/13/2001				0.0367 J					0.0770 U
RR-5-0-0.5	'0-0.5	9/10/2001				0.0580 J				0.310 JN	0.0690 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
RR-6-0-0.5	'0-0.5	9/10/2001				0.0315 J				0.260 JN	0.0720 U
RR-6-8-10	'8-10	9/10/2001				0.114					0.0760 U
RR-7-0-0.5	'0-0.5	9/10/2001				0.0252 J					0.0760 U
RR-8-0-0.5	'0-0.5	9/26/2001				0.0371 J				0.200 JN	0.0860 U
RR-8-6-8	'6-8	9/26/2001				0.149					0.140 U
RR-9 0-.5	'0-0.5	10/12/2001				0.0730 U					0.0730 U
SC-1	'0-1	8/21/2001			0.520 JN	0.0900 U				2.30 JN	0.0900 U
SC-2	'0-1	8/22/2001				0.0700 U				0.200 JN	0.0700 U
SC-3	'0-1	8/22/2001				0.0780 U					0.0780 U
SILO-B1-0-0.5	'0-0.5	9/6/2001				0.0374 J					0.0770 U
SILO-B1-6-8	'6-8	9/6/2001				37.7					0.300 U
SILO-B2-0-0.5	'0-0.5	9/6/2001				0.360 U					0.360 U
SILO-B3-0-0.5	'0-0.5	9/6/2001				0.110 J					0.410 U
SILO-B3-6-8	'6-8	9/6/2001				0.0518 J					0.0740 U
SILO-B4-0-0.5	'0-0.5	9/6/2001				0.420 U					0.420 U
SPR-1-0-0.5	'0-0.5	9/5/2001				0.380 U					0.380 U
SPR-1-8-10	'8-10	9/5/2001				0.100 U					0.100 U
SPR-2A-0-0.5	'0-0.5	7/19/2001				0.0750 U					0.0750 U
SPR-2A-8-10	'8-10	7/19/2001				0.0880 U					0.0880 U
SPR-2B-0-0.5	'0-0.5	7/19/2001				0.0720 U					0.0720 U
SPR-2B-10-12	'10-12	7/19/2001				0.100 U					0.100 U
SPR-3 0-.5	'0-0.5	8/21/2001				0.0195 J					0.0720 U
SPR-3 4-6	'4-6	8/21/2001				0.0324 J					0.0860 U
SPR-4A-0-0.5	'0-0.5	7/19/2001				0.0810 U					0.0810 U
SPR-4A-8-10	'8-10	7/19/2001				0.110 U				1.30 JN	0.110 U
SPR-4B-0-0.5	'0-0.5	8/22/2001				0.0800 U					0.0800 U
SPR-4B-4-6	'4-6	8/23/2001				0.0260 J					0.0800 U
SPR-4C-0-0.5	'0-0.5	8/23/2001				0.0932 J					0.370 U
SPR-4C-4-6	'4-6	8/23/2001				0.0487 J					0.0860 U
SPR-5-0-0.5	'0-0.5	9/5/2001				2.10 U					2.10 U
SPR-5-2-4	'2-4	9/5/2001				0.0860 U					0.0860 U
SPR-6-0.5-2	'0.5-2	9/13/2001				0.0488 J				0.640 JN	0.0750 U
SPR-6-0-0.5	'0-0.5	9/13/2001				0.0680 U					0.0680 U
SR-1-0-.5	'0-0.5	7/17/2001				0.0710 U					0.0710 U
SR-2-0-.5	'0-0.5	7/17/2001				0.0680 U					0.0680 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
ST-1-0-0.5	'0-0.5	9/5/2001				0.400 U					0.400 U
ST-2-0-0.5	'0-0.5	9/5/2001				0.247 J					0.400 U
ST-3-0-0.5	'0-0.5	9/4/2001				0.0790 U					0.0790 U
ST-3-4-6	'4-6	9/4/2001				0.100 U					0.100 U
TES-1-0-1	'0-1	12/5/2006				0.110 U					0.130 U
TES-2-0-1	'0-1	12/4/2006				0.230 U					0.290 U
TES-3-0-1	'0-1	12/4/2006				0.120 U					0.140 U
TES-4-0-1	'0-1	12/5/2006				0.119					0.0260 U
TLN-1 .5-2	'0.5-2	8/20/2001				0.169					0.0840 U
TLN-1 0-.5	'0-0.5	8/20/2001				0.0497 J					0.0830 U
TLN-2-0-0.5	'0-0.5	7/19/2001				0.0740 U					0.0740 U
TLN-3-0-.5	'0-0.5	7/17/2001				7.34					0.340 U
TLN-3-2-4	'2-4	7/17/2001				0.250					0.0780 U
TLN-4 0-.5	'0-0.5	8/20/2001				0.0690 U					0.0690 U
TLN-4 0-.5 DUP	'0-0.5	8/20/2001		0.290 JN		0.0730 U					0.0730 U
TLN-5 .5-2	'0.5-2	8/20/2001				0.0720 U					0.0720 U
TLN-5 0-.5	'0-0.5	8/20/2001				0.0720 U					0.0720 U
TLN-5-4-6	'4-6	8/30/2001				0.0730 U					0.0730 U
TLN-6 0-.5	'0-0.5	8/20/2001				0.0720 U					0.0720 U
TLS-10 0-.5	'0-0.5	8/21/2001				0.0780 U					0.0780 U
TLS-10 8-10	'8-10	8/21/2001				7.80					0.0970 U
TLS-1-0-0.5	'0-0.5	9/5/2001				0.390 U					0.390 U
TLS-11-0-0.5	'0-0.5	9/7/2001				0.160				0.430 JN	0.0750 U
TLS-2-0-0.5	'0-0.5	9/7/2001				0.370 U					0.370 U
TLS-2-6-8	'6-8	9/7/2001				0.120 U					0.120 U
TLS-3 0-.5	'0-0.5	8/21/2001				0.0740 U					0.0740 U
TLS-4-0-0.5	'0-0.5	9/7/2001				0.0181 J					0.0730 U
TLS-4-8-10	'8-10	9/7/2001				0.549					0.110 U
TLS-5 0-0.5	'0-0.5	8/21/2001				0.0710 U					0.0710 U
TLS-5-8-10	'8-10	9/26/2001				0.553					0.100 U
TLS-6 0-.5	'0-0.5	8/21/2001				0.0801 J					0.0900 U
TLS-6-3-5	'3-5	9/26/2001				2.19 J					8.90 U
TLS-7 0-.5	'0-0.5	8/21/2001				0.0990 U					0.0990 U
TLS-8-0-0.5	'0-0.5	9/7/2001				0.0760 U					0.0760 U
TLS-8-6-8	'6-8	9/7/2001				0.0870 U					0.0870 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methanone, 2-Naphthalenylphenyl- mg/kg	Methyl Isobutenyl Ketone mg/kg	Methyl Methacrylate mg/kg	Naphthalene mg/kg	N-Henicosane (c21) mg/kg	N-Heptadecane (c16) mg/kg	N-Hexadecane (c16) mg/kg	N-Hexadecanoic Acid mg/kg	Nitrobenzene mg/kg
TLS-9 0-.5	'0-0.5	8/21/2001				0.360 U					0.360 U
TP-105	'0-0	6/8/2007				0.0190 U					0.0230 U
TP-105A	'0-0	6/8/2007				0.0190 U					0.0230 U
TP-106-A	'0-0	6/8/2007				0.0190 U					0.0240 U
TP-106-B	'0-0	6/8/2007				0.0190 U					0.0230 U
WWT-1-0-0.5	'0-0.5	7/19/2001				0.390 U					0.390 U
WWT-101-15-17	'15-17	11/6/2006				0.0230 U					0.0290 U
WWT-101-21-23	'21-23	11/6/2006				0.0220 U					0.0280 U
WWT-1-12-14	'12-14	8/23/2001				54.5					5.20 U
WWT-2-0-0.5	'0-0.5	8/23/2001				0.0911					0.0720 U
WWT-2-12-14	'12-14	8/23/2001				0.336					0.250 U
WWT-3-0-0.5	'0-0.5	8/23/2001				0.126 J					0.360 U
WWT-3-12-14	'12-14	8/23/2001	0.500 JN			0.162					0.160 U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
SRS			0_3	390							
12K-B1-0.5-2	'0.5-2	9/6/2001	0.0850 U	0.210 U							
12K-B1-0-0.5	'0-0.5	9/6/2001	0.0790 U	0.200 U							
12K-B2-0.5-2	'0.5-2	9/6/2001	0.0790 U	0.200 U							
12K-B2-0-0.5	'0-0.5	9/6/2001	0.0810 U	0.200 U							
150K-1-0.5-2	'0.5-2	9/10/2001	0.0770 U	0.190 U							
150K-1-0-0.5	'0-0.5	9/10/2001	0.400 U	1.00 U							
230-B1-0.5	'0-0.5	10/2/2001	0.0790 U	0.200 U							
230-B10-0-0.5	'0-0.5	8/30/2001	0.0990 U	0.250 U							
230-B10-1.5-2	'1.5-2	8/30/2001	0.0860 U	0.210 U							
230-B11-0-0.5	'0-0.5	8/30/2001	0.0720 U	0.180 U							
230-B11-1.5-2	'1.5-2	8/30/2001	0.0720 U	0.180 U							
230-B1-4-6	'4-6	10/2/2001	0.390 U	0.980 U							18.0 JN
230-B2-0-0.5	'0-0.5	8/30/2001	0.0800 U	0.200 U							
230-B2-1.5-2	'1.5-2	8/30/2001	0.0720 U	0.180 U							
230-B3-0-0.5	'0-0.5	8/30/2001	0.0760 U	0.190 U							
230-B3-1.5-2	'1.5-2	8/30/2001	0.0780 U	0.200 U							
230-B4-0-0.5	'0-0.5	8/30/2001	0.0800 U	0.200 U							
230-B4-1.5-2	'1.5-2	8/30/2001	0.0760 U	0.190 U							
230-B5-0-0.5	'0-0.5	9/13/2001	0.0800 U	0.200 U							
230-B5-1.5-2	'1.5-2	9/13/2001	0.0750 U	0.190 U							
230-B6 0-0.5	'0-0.5	8/22/2001	0.0760 U	0.190 U				0.570 JN			
230-B6 1.5-2	'1.5-2	8/22/2001	0.0760 U	0.190 U							
230-B7 0-0.5	'0-0.5	8/22/2001	0.0810 U	0.200 U				1.70 JN			
230-B7 1.5-2	'1.5-2	8/22/2001	0.0820 U	0.200 U							
230-B8 1.5-2	'1.5-2	8/22/2001	0.0830 U	0.210 U							
230-B9 0-0.5	'0-0.5	8/22/2001	0.0710 U	0.180 U							
230-B9 0-0.5	'0-0.5	8/22/2001	0.0770 U	0.190 U							
230-B9 1.5-2	'1.5-2	8/22/2001	0.0750 U	0.190 U							
231-B1-0-0.5	'0-0.5	10/5/2001	0.0750 U	0.190 U							
231-B10-0-0.5	'0-0.5	9/17/2001	0.0830 U	0.210 U							
231-B11-0-0.5	'0-0.5	9/19/2001	0.0940 U	0.230 U							
231-B11-8-10	'8-10	9/19/2001	0.0850 U	0.210 U							
231-B12-0-0.5	'0-0.5	9/17/2001	0.0750 U	0.190 U							
231-B13-0-0.5	'0-0.5	9/19/2001	0.390 U	0.960 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
231-B13-8-10	'9-10	9/27/2001	0.0770 U	0.190 U							
231-B14-0-0.5	'0-0.5	9/19/2001	0.0820 U	0.200 U							
231-B2-0.5-2	'0.5-2	8/22/2001	0.0740 U	0.180 U							
231-B2-0-0.5	'0-0.5	8/22/2001	0.0740 U	0.180 U							
231-B3-0-0.5	'0-0.5	8/22/2001	0.0770 U	0.190 U							
231-B4-0-0.5	'0-0.5	8/30/2001	0.0770 U	0.190 U							
231-B4-6-8	'6-8	9/27/2001	0.0800 U	0.200 U							
231-B5-0.5-2	'0.5-2	9/19/2001	0.0840 U	0.210 U							
231-B6-0-0.5	'0-0.5	9/27/2001	0.0910 U	0.230 U	1.60 JN	2.40 JN					
231-B6-4-6	'4-6	9/27/2001	0.0750 U	0.190 U							
231-B7-0-0.5	'0-0.5	9/13/2001	0.410 U	1.00 U							
231-B8-0-0.5	'0-0.5	9/27/2001	0.160 UJ	0.390 UJ							
231-B8-8-10	'8-10	9/27/2001	6.50 U	16.0 U							
231-B9-0.5-2	'0.5-2	9/27/2001	0.0940 U	0.230 U							
231-B9-0-0.5	'0-0.5	9/27/2001	0.470 U	1.20 U							
240-1-0-0.5	'0-0.5	9/26/2001	0.0810 U	0.200 U							
240-1-8-10	'8-10	10/1/2001	0.0810 U	0.200 U							
5K-B1-0-0.5	'0-0.5	10/1/2001	0.410 U	1.00 U							
5K-B2-0-0.5	'0-0.5	8/31/2001	0.0710 U	0.180 U							
5K-B2-8-10	'8-10	8/31/2001	0.0820 U	0.200 U							
5K-B3-0-0.5	'0-0.5	9/26/2001	0.0800 U	0.200 U							
5K-B4-0-0.5	'0-0.5	10/1/2001	0.460 U	1.20 U							
5K-B4-4-6	'4-6	10/1/2001	0.550 U	1.40 U							
5K-B5-0-0.5	'0-0.5	8/31/2001	0.0780 U	0.200 U							
5K-B5-4-6	'4-6	9/26/2001	0.0870 U	0.220 U							
AB-1-0-0.5	'0-0.5	9/4/2001	0.0780 U	0.200 U							
AB-2-0.5-2	'0.5-2	9/4/2001	0.0870 U	0.220 U	0.680 JN						
AB-2-0-0.5	'0-0.5	9/4/2001	0.0810 U	0.200 U							
ADN-1-0-0.5	'0-0.5	9/5/2001	0.0760 U	0.190 U							
ADN-1-8-10	'8-10	9/5/2001	0.0960 U	0.240 U						4.60 JN	
ADN-2-0-0.5	'0-0.5	9/5/2001	0.0820 U	0.200 U							
ADN-2-10-11	'10-11	9/27/2001	0.0800 U	0.200 U							
ADS-1-0-.5	'0-0.5	7/17/2001	0.370 U	0.940 U							
ADS-10-0-0.5	'0-2	7/18/2001	0.0770 U	0.190 U							
ADS-101-0-1	'0-1	12/5/2006	0.0250 U	0.0160 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
ADS-101-1-3	'1-3	12/5/2006	0.0240 U	0.0160 U							
ADS-102-0-1.5	'0-2	12/5/2006	0.0240 U	0.0150 U							
ADS-102-7-8	'4-8	12/5/2006	0.0260 U	0.0170 U							
ADS-10-4-6	'4-6	7/18/2001	0.0950 U	0.240 U							
ADS-11-0-0.5	'0-2	7/18/2001	0.0760 U	0.190 U				0.570 JN			
ADS-12-0.5-2	'0.5-2	7/18/2001	0.0870 U	0.220 U							
ADS-12-0-0.5	'0-0.5	7/18/2001	0.0850 U	0.210 U							
ADS-2-0-0.5	'0-0.5	7/18/2001	0.0800 U	0.200 U							
ADS-2-4-6	'4-6	7/18/2001	0.0810 U	0.200 U							
ADS-3-0-0.5	'0-0.5	7/18/2001	0.0780 U	0.190 U							
ADS-4-0-0.5	'0-2	7/18/2001	0.0770 U	0.190 U							
ADS-4-12-14	'12-14	7/18/2001	0.0850 U	0.210 U							
ADS-5-0-0.5	'0-0.5	7/18/2001	0.360 U	0.900 U							
ADS-5-4-6	'4-6	9/27/2001	0.0740 U	0.190 U							
ADS-6-0.5-2	'0.5-2	7/18/2001	0.0760 U	0.190 U							
ADS-6-0-0.5	'0-0.5	7/18/2001	0.380 U	0.950 U							
ADS-7-0-.5	'0-0.5	7/17/2001	0.360 U	0.900 U							
ADS-8-0-0.5	'0-0.5	7/18/2001	0.0820 U	0.210 U							
ADS-8-4-6	'4-6	7/18/2001	0.0830 U	0.210 U							
ADS-9-0-0.5	'0-0.5	7/18/2001	0.0860 U	0.220 U							
BLIND DUP	'0-0	8/21/2001	0.0710 U	0.180 U							
BSL-10-0-1	'0-1	9/21/2001	0.0990 U	0.250 U							
BSL-1-0-1	'0-1	9/20/2001	0.0790 U	0.200 U							
BSL-11-0-1	'0-1	9/26/2001	0.0960 U	0.240 U							
BSL-12-0-1	'0-1	9/26/2001	0.0760 U	0.190 U							
BSL-1-4-6	'4-6	9/20/2001	0.0980 U	0.240 U							
BSL-2-0-1	'0-1	9/21/2001	0.100 U	0.250 U							
BSL-3-0-0.5	'0-0.5	9/20/2001	0.0710 U	0.180 U							
BSL-4-0-1	'0-0.5	9/21/2001	0.0860 U	0.220 U							
BSL-4-4-6	'4-6	9/21/2001	0.140 U	0.350 U							
BSL-5-0-.5	'0-0.5	9/21/2001	0.0820 U	0.200 U							
BSL-6-0-1	'0-1	9/26/2001	0.110 U	0.270 U							
BSL-6-1-2	'1-2	9/26/2001	0.130 U	0.320 U							
BSL-7-0-.5	'0-0.5	9/21/2001	0.0980 U	0.240 U							
BSL-8-0-1	'0-1	9/26/2001	0.120 U	0.300 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
BSL-9-.5-2	'0.5-2	9/21/2001	0.110 U	0.270 U							
BSL-9-0-.5	'0-0.5	9/21/2001	0.0840 U	0.210 U							
BT-B1-0-0.5	'0-0.5	9/18/2001	0.0810 U	0.200 U							
BT-B2-0.5-2	'0.5-2	9/18/2001	0.0790 U	0.200 U							
BT-B2-0-0.5	'0-0.5	9/18/2001	0.0860 U	0.220 U							
BT-B3-0-0.5	'0-0.5	9/18/2001	0.390 U	0.960 U							
BT-B4-0.5-2	'0.5-2	8/30/2001	0.0770 U	0.190 U		0.230 JN					
BT-B4-0-0.5	'0-0.5	8/30/2001	0.340 U	0.840 U		0.730 JN					
BT-B5-0-.5	'0-0.5	10/2/2001	0.0810 U	0.200 U							
BT-B6-0.5-2	'0.5-2	9/17/2001	0.0880 U	0.220 U							
BT-B6-0-0.5	'0-0.5	9/17/2001	0.340 U	0.860 U							
CF-1-0-0.5	'0-0.5	8/31/2001	0.0740 U	0.180 U							
CF-1-2-4	'2-4	8/31/2001	0.0740 U	0.190 U							
CF-2-0-0.5	'0-0.5	8/28/2001	0.0820 U	0.210 U							
CF-3-0.5-2	'0.5-2	8/28/2001	0.130 U	0.330 U							
CF-3-0-0.5	'0-0.5	8/28/2001	0.0990 U	0.250 U							
CF-4-0-0.5	'0-0.5	8/28/2001	0.0870 U	0.220 U							
CF-5-0-0.5	'0-0.5	8/28/2001	0.0700 U	0.170 U							
CF-5-4-6	'4-6	8/28/2001	0.0750 U	0.190 U							
CF-6-0-0.5	'0-0.5	8/28/2001	0.0770 U	0.190 U							
CF-7-0-0.5	'0-0.5	8/28/2001	0.0750 U	0.190 U							
CF-7-4-6	'4-6	8/28/2001	0.0700 U	0.180 U							
CF-8-0-0.5	'0-0.5	8/28/2001	0.0770 U	0.190 U							
CF-9-0.5-2	'0.5-2	8/31/2001	0.0720 U	0.180 U							
CF-9-0-0.5	'0-0.5	8/31/2001	0.0740 U	0.180 U							
DC-B12-0-0.5	'0-0.5	10/3/2001	0.0760 U	0.190 U							
DC-B12-2-4	'2-4	10/3/2001	0.0730 U	0.180 U							
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.0730 U	0.180 U							
DC-SS11-0-0.5	'0-0.5	9/17/2001	0.370 U	0.920 U							
DC-SS13-0-0.5	'0-0.5	9/17/2001	0.350 U	0.860 U							
DC-SS15-0-0.5	'0-0.5	9/17/2001	0.410 U	1.00 U							
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.0850 U	0.210 U							
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.0740 U	0.180 U							
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.0880 U	0.220 U				0.620 JN			
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.0750 U	0.190 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.0760 U	0.190 U							
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.0760 U	0.190 U							
DSP-1-0-0.5	'0-0.5	10/3/2001	0.0820 U	0.200 U							
DSP-1-4-6	'4-6	11/19/2001	0.0820 U	0.210 U							
DSP-2-0-0.5	'0-0.5	9/4/2001	0.0740 U	0.180 U							
DSP-3-0-0.5	'0-0.5	9/4/2001	0.380 U	0.940 U							
DSP-3-2-4	'2-4	9/4/2001	0.0830 U	0.210 U							
DSP-4-0-0.5	'0-0.5	9/4/2001	0.0850 U	0.210 U							
DSP-4-4-6	'4-6	9/26/2001	0.0860 U	0.210 U							
DUP-01-010824	'0-0.5	8/24/2001	0.0770 U	0.190 U							
DUP-01-010831	'2-4	8/31/2001	0.0750 U	0.190 U							
DUP-01-010904	'0-0.5	9/4/2001	0.370 U	0.920 U							
DUP-01-010905	'8-10	9/5/2001	0.0840 U	0.210 U							
DUP-01-010906	'0-8	9/6/2001	0.310 U	0.760 U							
DUP-01-010913	'0-0.5	9/13/2001	0.380 U	0.960 U							
DUP-01-010917	'0-0.5	9/17/2001	0.0770 U	0.190 U							
DUP-01-010926	'1-2	9/26/2001	0.130 U	0.320 U							
DUP-01-010927	'4-6	9/27/2001	0.0740 U	0.180 U							
DUP-01-021001	'0-0	10/2/2001	0.0750 U	0.190 U				0.220 JN			
DUP-01-08 2201	'1.5-2	8/22/2001	0.0800 U	0.340							
DUP-01-121001	'0-0	10/12/2001	0.0770 U	0.190 U							
DUP-01-170402	'0-0	4/17/2002	0.180 U	0.460 U							
DUP-02-010913	'0-0.5	9/13/2001	0.430 U	1.10 U							
DUP-02-010921	'0-1	9/21/2001	0.0910 U	0.230 U							
DUP-02-010926	'4-6	9/26/2001	0.0900 U	0.220 U			1.00 JN				
DUP060807	'0-0	6/8/2007	0.0220 U	0.0140 U							
DUP-1-010828	'0-0.5	8/28/2001	0.0770 U	0.190 U							
DUP-1-010921	'0-0.5	9/21/2001	0.100 U	0.260 U							
DUP110606	'15-17	11/6/2006	0.0270 U	0.0170 U							
DUP112006	'16-18	11/20/2006	0.0420 U	0.0270 U							
DUP112106	'10-12	11/21/2006	0.0440 U	0.0280 U							
DUP-120506	'0-4	12/5/2006	0.0650 U	0.0420 U							
DUP-120606	'0-4	12/6/2006	0.0220 U	0.0140 U							
DUPE071801	'0-0.5	7/18/2001	0.0740 U	0.180 U							
EC-1	'0-1	8/21/2001	0.0760 U	0.190 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
EC-2	'0-1	8/21/2001	0.0750 U	0.190 U							
EC-3	'0-1	8/21/2001	0.0710 U	0.180 U							
EC-4	'0-1	8/21/2001	0.0740 U	0.180 U							
EC-5	'0-1	8/21/2001	0.0740 U	0.180 U							
EC-6	'0-1	8/21/2001	0.0820 U	0.210 U							
EC-7	'0-1	8/21/2001	0.0800 U	0.200 U							
EC-8	'0-1	8/21/2001	0.0740 U	0.180 U							
EC-9	'0-1	8/21/2001	0.0870 U	0.220 U							
ESR-1-0-1	'0-0.5	9/4/2001	0.0710 U	0.180 U							
ESR-1-4-6	'4-6	9/4/2001	0.0830 U	0.210 U							
HB-101A	'17-17	3/5/2007	0.0250 U	0.0160 U							
HB-102A	'0-0	3/13/2007	0.0380 U	0.0250 U							
HB-102B	'0-0	3/14/2007	0.0260 U	0.0170 U							
HB-102C	'0-0	3/14/2007	0.0240 U	0.0160 U							
H-B-103A	'17-17	2/20/2007	0.0340 U	0.0220 U							
H-B-104A	'17-17	2/23/2007	0.0260 U	0.0170 U							
H-B-104B	'17-17	2/23/2007	0.0250 U	0.0160 U							
H-B-104C	'17-17	2/23/2007	0.0270 U	0.0170 U							
H-B-104D	'17-17	2/27/2007	0.0250 U	0.0160 U							
H-B-104E	'17-17	2/27/2007	0.0250 U	0.0160 U							
H-B-105C	'17-17	2/8/2007	0.0240 U	0.0150 U							
H-B-105D	'17-17	2/8/2007	0.0260 U	0.0170 U							
H-B-105E	'0-0	2/8/2007	0.0260 U	0.0170 U							
HB-1A	'6.75-6.75	4/18/2002	0.120 U	0.300 U							
HB-3A	'5.25-5.25	4/17/2002	0.210 U	0.520 U							
HB-3B	'4.5-4.5	4/17/2002	0.0780 U	0.200 U							
HB-3C	'4.5-4.5	4/18/2002	0.0770 U	0.190 U							
HB-3D	'4.5-4.5	4/18/2002	0.0800 U	0.200 U							
HB-4A	'5.33-5.33	4/19/2002	0.0780 U	0.200 U							
HB-5A	'3-3	4/22/2002	0.0830 U	0.210 U							
HB-7A	'5-5	4/19/2002	0.0830 U	0.210 U							
HB-8A	'3-3	4/23/2002	0.0800 U	0.200 U							
HB-8B	'4.83-4.83	4/23/2002	0.0790 U	0.200 U							
HB-8C	'5.5-5.5	4/23/2002	0.0820 U	0.200 U							
HB-9A	'4.75-4.75	4/24/2002	0.0830 U	0.210 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
HF-B1-0-0.5	'0-0.5	9/10/2001	0.0800 U	0.200 U							
HF-B1-8-10	'8-10	9/10/2001	0.0930 U	0.230 U							
HF-B2-0-0.5	'0-0.5	9/4/2001	0.0740 U	0.180 U							
HF-B2-4-6	'4-6	9/4/2001	0.0740 U	0.180 U							
HF-B3-0-.5	'0-0.5	10/2/2001	0.0740 U	0.0489 J							
HF-B3-8-10	'8-10	10/2/2001	0.0760 U	0.190 U							
IB-1-0-2	'0-2	4/8/2002	0.0780 U	0.190 U							
IB-1-4-6	'4-6	4/8/2002	0.0780 U	0.190 U							
IB-2-12-14	'12-14	4/8/2002	0.0840 U	0.210 U							
IB-2-4-6	'4-6	4/8/2002	0.0780 U	0.190 U							
IB-3-4-6	'4-6	4/8/2002	0.0850 U	0.210 U							
IB-3-8-10	'8-10	4/8/2002	0.0890 U	0.220 U							
LB-101-0-1	'0-1	12/6/2006	0.0230 U	0.0150 U							
LB-101-1-3	'1-3	12/6/2006	0.0220 U	0.0140 U							
LB-102-0-1	'0-3	12/6/2006	0.0240 U	0.0150 U							
LB-102-1-3	'3-7	12/6/2006	0.0240 U	0.0150 U							
LB-103-0-1	'0-1	12/6/2006	0.0230 U	0.0150 U							
LB-103-5-7	'5-7	12/6/2006	0.0260 U	0.0170 U							
LHP-101-0-1	'0-1	12/4/2006	0.120 U	0.0760 U							
LHP-101-5-8	'4-8	12/4/2006	0.0840 U	0.0540 U							
LHP-102-0-1	'0-1	12/5/2006	0.0240 U	0.0150 U							
LHP-102-7-9	'7-9	12/5/2006	0.0300 U	0.0190 U							
LHP-103-0-1	'0-1	12/5/2006	0.120 U	0.0770 U							
LHP-103-1-3	'1-3	12/5/2006	0.0260 U	0.0170 U							
LHP-104-0-1	'0-1	12/5/2006	0.0220 U	0.0140 U							
LHP-104-7-9	'4-8	12/5/2006	0.0250 U	0.0160 U							
LHP-105-0-1	'0-1	12/5/2006	0.110 U	0.0720 U							
LHP-105-1-3	'1-3	12/5/2006	0.0220 U	0.0140 U							
LHP-106-0-1	'0-1	12/4/2006	0.110 U	0.0710 U							
LHP-106-1-3	'1-3	12/4/2006	0.130 U	0.0860 U							
LHP-107-0-1	'0-1	12/5/2006	0.0230 U	0.0150 U							
LHP-107-5-7	'4-8	12/5/2006	0.0240 U	0.0160 U							
LHP-108-0-1	'0-1	12/6/2006	0.0240 U	0.0150 U							
LHP-108-3-7	'3-7	12/6/2006	0.0260 U	0.0170 U							
LHP-109-0-1	'0-1	12/6/2006	0.0240 U	0.0160 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
LHP-109-7-9	'7-9	12/6/2006	0.0290 U	0.0190 U							
LHP-110-0-1	'0-1	12/4/2006	0.240 U	0.160 U							
LHP-111-0-1	'0-1	12/4/2006	0.0240 U	0.0150 U							
LHP-112-0-1	'0-1	12/4/2006	0.0240 U	0.0160 U							
LHP-113-0-1	'0-1	12/4/2006	0.0230 U	0.0150 U							
LHP-114-0-1	'0-1	12/4/2006	0.0230 U	0.0150 U							
LHP-115-0-1	'0-1	12/4/2006	0.0220 U	0.0140 U							
LHP-116-0-1	'0-1	12/4/2006	0.0240 U	0.0150 U							
LHP-117-0-1	'0-1	12/4/2006	0.0250 U	0.0160 U							
LHP-118-0-1	'0-1	12/4/2006	0.130 U	0.0810 U							
LHP-119-0-1	'0-1	12/4/2006	0.0250 U	0.0160 U							
LHP-120-0-1	'0-1	12/4/2006	0.0280 U	0.0180 U							
LHP-121-0-1	'0-1	12/6/2006	0.0240 U	0.0160 U							
LHP-122-0-1	'0-1	12/6/2006	0.0230 U	0.0150 U							
LHP-123-0-1	'0-1	12/4/2006	0.0240 U	0.0160 U							
LHP-124-.5-2	'0.5-2	10/27/2006	0.0250 U	0.0160 U							
LHP-124-10-12	'10-12	10/31/2006	0.0400 U	0.0250 U							
LHP-124-2-4	'2-4	10/27/2006	0.0250 U	0.0160 U							
LHP-124-28-30	'28-30	10/31/2006	0.0300 U	0.0190 U							
LHP-125-.5-2	'0.5-2	10/27/2006	0.0240 U	0.0160 U							
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0270 U	0.0180 U							
LHP-125-12-14	'12-14	11/1/2006	0.0250 U	0.0160 U							
LHP-125-4-6	'4-6	10/27/2006	0.0240 U	0.0150 U							
LHP-126-10.5-12	'10.5-12	11/1/2006	0.100 UJ	0.0660 UJ							
LHP-126-14-16	'14-16	11/1/2006	0.0260 U	0.0160 U							
LHP-126-2-4	'2-4	10/26/2006	0.0240 U	0.0150 U							
LHP-126-8-10	'9-10	10/26/2006	0.0260 U	0.0170 U							
LHP-127-0-1	'0-1	12/6/2006	0.0230 U	0.0150 U							
LHP-127-3-5	'3-5	12/6/2006	0.0230 U	0.0140 U							
LHP-128-0-1	'0-4	12/6/2006	0.0220 U	0.0140 U							
LHP-128-7-8	'17-17	12/6/2006	0.0290 U	0.0190 U							
LP-1-0-0.5	'0-0.5	8/27/2001	0.0750 U	0.190 U							
LP-10-0.5-2	'0.5-2	8/27/2001	0.0840 U	0.210 U							
LP-10-0-0.5	'0-0.5	8/27/2001	0.0760 U	0.190 U							
LP-101-11-13	'11-13	11/2/2006	0.0400 U	0.0260 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
LP-101-14-16	'14-16	11/2/2006	0.0350 U	0.0220 U							
LP-101-26-28	'26-28	11/2/2006	0.0250 U	0.0160 U							
LP-101-50-52	'50-52	11/2/2006	0.0240 U	0.0160 U							
LP-11-0-0.5	'0-0.5	8/27/2001	0.0840 U	0.210 U							
LP-12-0-0.5	'0-0.5	8/27/2001	0.0740 U	0.180 U							
LP-12-4-6	'4-6	8/27/2001	0.0730 U	0.180 U							
LP-13-0-0.5	'0-0.5	8/24/2001	0.0840 U	0.210 U							
LP-14-0.5-2	'0.5-2	8/24/2001	0.0710 U	0.180 U							
LP-14-0-0.5	'0-0.5	8/24/2001	0.370 U	0.920 U							
LP-15-0-0.5	'0-0.5	8/24/2001	0.0760 U	0.190 U							
LP-16-0.5-2	'0.5-2	8/27/2001	0.360 U	0.910 U							
LP-16-0-0.5	'0-0.5	8/27/2001	0.0770 U	0.190 U							
LP-2-0.5-2	'0.5-2	8/28/2001	0.0760 U	0.190 U							
LP-2-0-0.5	'0-0.5	8/28/2001	0.0750 U	0.190 U							
LP-3-0-0.5	'0-0.5	8/27/2001	0.0710 U	0.180 U							
LP-4 .5-2	'0.5-2	8/21/2001	0.0740 U	0.180 U							
LP-4 0-.5	'0-0.5	8/21/2001	0.0800 U	0.200 U							
LP-5-0-0.5	'0-0.5	8/27/2001	0.0750 U	0.190 U							
LP-6-0-0.5	'0-0.5	8/27/2001	0.0730 U	0.180 U							
LP-6-4-6	'4-6	8/27/2001	0.0740 U	0.180 U							
LP-7-0-0.5	'0-0.5	8/24/2001	0.0780 U	0.200 U							
LP-8-0-0.5	'0-0.5	8/24/2001	0.0810 U	0.200 U							
LP-8-10-12	'10-12	8/24/2001	0.110 U	0.280 U							
LP-9-0-0.5	'0-0.5	8/24/2001	0.370 U	0.920 U							
MW-11D-12-14	'12-14	12/14/2006	0.0380 U	0.0240 U							
MW-11D-14-16	'14-16	12/14/2006	0.0260 U	0.0160 U							
MW-11D-16-18	'16-18	12/14/2006	0.0250 U	0.0160 U							
MW-14D-13-15	'13-15	11/14/2006	0.0270 U	0.0180 U							
MW-14D-17-19	'17-19	11/14/2006	0.0250 U	0.0160 U							
MW-16D-13-15	'13-15	11/17/2006	0.0240 U	0.0160 U							
MW-16D-17-19	'17-19	11/20/2006	0.0250 U	0.0160 U							
MW-17D-15-17	'15-17	11/10/2006	0.0270 U	0.0170 U							
MW-17D-17-19	'17-19	11/10/2006	0.0250 U	0.0160 U							
MW-18D-13-15	'13-15	11/13/2006	0.0270 U	0.0170 U							
MW-18D-17-19	'17-19	11/13/2006	0.0250 U	0.0160 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
MW-20D-12-14	'12-14	11/9/2006	0.0260 U	0.0170 U							
MW-20D-32-34	'32-32.9	11/10/2006	0.0250 U	0.0160 U							
MW-20D-36-38	'36-38	11/10/2006	0.0250 U	0.0160 U							
MW-21D-13-15	'13-13.7	11/16/2006	0.0270 U	0.0170 U							
MW-21D-15-17	'15-17	11/16/2006	0.0250 U	0.0160 U							
MW-23D-15-17	'15-16	11/15/2006	0.0270 U	0.0170 U							
MW-23D-37-39	'37-37.9	11/15/2006	0.0240 U	0.0160 U							
MW-25D-10-12	'10-12	11/21/2006	0.0450 U	0.0290 U							
MW-25D-33-35	'33-35	12/18/2006	0.0270 U	0.0170 U							
MW-26S-8-10	'8-10	10/26/2006	0.0280 U	0.0180 UJ							
MW-6D-0-2	'0-2	11/8/2006	0.0240 U	0.0160 U							
MW-6D-12-14	'12-14	11/8/2006	0.0560 U	0.0360 U							
MW-6D-16-18	'16-18	11/20/2006	0.0390 U	0.0250 U							
MW-6D-30-32	'30-32	11/21/2006	0.0250 U	0.0160 U							
PCA-1-0-.5	'0-2	7/17/2001	0.360 U	0.900 U							
PCA-1-4-6	'4-6	7/17/2001	0.0800 U	0.200 U							
PCA-2-0-.5	'0-0.5	7/17/2001	0.0730 U	0.180 U							
PCA-3-0-0.5	'0-0.5	9/13/2001	0.160 U	0.390 U							
PCA-3-4-6	'4-6	9/13/2001	0.0850 U	0.210 U							
PCA-4-0-0.5	'0-0.5	9/13/2001	0.380 U	0.950 U							
PCA-4-4-6	'4-6	9/26/2001	0.0830 U	0.210 U							
PCA-5-0.5-2	'0.5-2	9/7/2001	0.0780 U	0.190 U							
PCA-5-0-0.5	'0-0.5	9/7/2001	0.0850 U	0.210 U							
PCA-6-0-0.5	'0-0.5	9/7/2001	0.0710 U	0.180 U				0.210 JN			
RR-1 0-0.5	'0-0.5	8/22/2001	0.0740 U	0.180 U							
RR-1 14-16	'14-16	8/22/2001	0.0820 U	0.200 U						5.20 JN	
RR-10 0-.5	'0-0.5	10/12/2001	0.0740 U	0.180 U							
RR-11 0-.5	'0-0.5	10/12/2001	0.0800 U	0.200 U							
RR-12 0-.5	'0-0.5	10/12/2001	0.0780 U	0.200 U							
RR-2-0-0.5	'0-0.5	9/13/2001	0.420 U	1.00 U							
RR-2-8-10	'8-10	9/13/2001	0.0990 U	0.250 U							
RR-3-0-0.5	'0-0.5	9/13/2001	0.0720 U	0.180 U							
RR-4-0-0.5	'0-0.5	9/10/2001	0.0800 U	0.200 U							
RR-4-6-8	'6-8	9/13/2001	0.0770 U	0.190 U							
RR-5-0-0.5	'0-0.5	9/10/2001	0.0690 U	0.170 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
RR-6-0-0.5	'0-0.5	9/10/2001	0.0720 U	0.180 U							
RR-6-8-10	'8-10	9/10/2001	0.0760 U	0.190 U							
RR-7-0-0.5	'0-0.5	9/10/2001	0.0760 U	0.190 U							
RR-8-0-0.5	'0-0.5	9/26/2001	0.0860 U	0.220 U							
RR-8-6-8	'6-8	9/26/2001	0.140 U	0.340 U							
RR-9 0-.5	'0-0.5	10/12/2001	0.0730 U	0.180 U							
SC-1	'0-1	8/21/2001	0.0900 U	0.220 U				1.60 JN			
SC-2	'0-1	8/22/2001	0.0700 U	0.170 U							
SC-3	'0-1	8/22/2001	0.0780 U	0.200 U							
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.0770 U	0.190 U							
SILO-B1-6-8	'6-8	9/6/2001	0.300 U	0.740 U							
SILO-B2-0-0.5	'0-0.5	9/6/2001	0.360 U	0.900 U							
SILO-B3-0-0.5	'0-0.5	9/6/2001	0.410 U	1.00 U							
SILO-B3-6-8	'6-8	9/6/2001	0.0740 U	0.180 U							
SILO-B4-0-0.5	'0-0.5	9/6/2001	0.420 U	1.00 U							
SPR-1-0-0.5	'0-0.5	9/5/2001	0.380 U	0.960 U							
SPR-1-8-10	'8-10	9/5/2001	0.100 U	0.260 U							
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.0750 U	0.190 U							
SPR-2A-8-10	'8-10	7/19/2001	0.0880 U	0.220 U							
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.0720 U	0.180 U							
SPR-2B-10-12	'10-12	7/19/2001	0.100 U	0.250 U							
SPR-3 0-.5	'0-0.5	8/21/2001	0.0720 U	0.180 U							
SPR-3 4-6	'4-6	8/21/2001	0.0860 U	0.210 U							
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.0810 U	0.200 U							
SPR-4A-8-10	'8-10	7/19/2001	0.110 U	0.280 U							
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.0800 U	0.200 U							
SPR-4B-4-6	'4-6	8/23/2001	0.0800 U	0.200 U							
SPR-4C-0-0.5	'0-0.5	8/23/2001	0.370 U	0.920 U							
SPR-4C-4-6	'4-6	8/23/2001	0.0860 U	0.220 U		2.10 JN					
SPR-5-0-0.5	'0-0.5	9/5/2001	2.10 U	5.20 U							
SPR-5-2-4	'2-4	9/5/2001	0.0860 U	0.220 U							
SPR-6-0.5-2	'0.5-2	9/13/2001	0.0750 U	0.190 U				0.320 JN			
SPR-6-0-0.5	'0-0.5	9/13/2001	0.0680 U	0.170 U							
SR-1-0-.5	'0-0.5	7/17/2001	0.0710 U	0.180 U							
SR-2-0-.5	'0-0.5	7/17/2001	0.0680 U	0.170 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
ST-1-0-0.5	'0-0.5	9/5/2001	0.400 U	1.00 U							
ST-2-0-0.5	'0-0.5	9/5/2001	0.400 U	1.00 U							
ST-3-0-0.5	'0-0.5	9/4/2001	0.0790 U	0.200 U							
ST-3-4-6	'4-6	9/4/2001	0.100 U	0.260 U							
TES-1-0-1	'0-1	12/5/2006	0.120 U	0.0790 U							
TES-2-0-1	'0-1	12/4/2006	0.260 U	0.170 U							
TES-3-0-1	'0-1	12/4/2006	0.130 U	0.0840 U							
TES-4-0-1	'0-1	12/5/2006	0.0240 U	0.0150 U							
TLN-1 .5-2	'0.5-2	8/20/2001	0.0840 U	0.210 U							
TLN-1 0-.5	'0-0.5	8/20/2001	0.0830 U	0.210 U							
TLN-2-0-0.5	'0-0.5	7/19/2001	0.0740 U	0.180 U							
TLN-3-0-.5	'0-0.5	7/17/2001	0.340 U	0.860 U							
TLN-3-2-4	'2-4	7/17/2001	0.0780 U	0.190 U							
TLN-4 0-.5	'0-0.5	8/20/2001	0.0690 U	0.170 U							
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.0730 U	0.180 U							
TLN-5 .5-2	'0.5-2	8/20/2001	0.0720 U	0.180 U							
TLN-5 0-.5	'0-0.5	8/20/2001	0.0720 U	0.180 U							
TLN-5-4-6	'4-6	8/30/2001	0.0730 U	0.180 U							
TLN-6 0-.5	'0-0.5	8/20/2001	0.0720 U	0.180 U							
TLS-10 0-.5	'0-0.5	8/21/2001	0.0780 U	0.190 U							
TLS-10 8-10	'8-10	8/21/2001	0.0970 U	0.240 U							
TLS-1-0-0.5	'0-0.5	9/5/2001	0.390 U	0.970 U							
TLS-11-0-0.5	'0-0.5	9/7/2001	0.0750 U	0.190 U							
TLS-2-0-0.5	'0-0.5	9/7/2001	0.370 U	0.940 U							
TLS-2-6-8	'6-8	9/7/2001	0.120 U	0.290 U							
TLS-3 0-.5	'0-0.5	8/21/2001	0.0740 U	0.180 U							
TLS-4-0-0.5	'0-0.5	9/7/2001	0.0730 U	0.180 U							
TLS-4-8-10	'8-10	9/7/2001	0.110 U	0.280 U							
TLS-5 0-0.5	'0-0.5	8/21/2001	0.0710 U	0.180 U				0.720 JN			
TLS-5-8-10	'8-10	9/26/2001	0.100 U	0.260 U							
TLS-6 0-.5	'0-0.5	8/21/2001	0.0900 U	0.220 U							
TLS-6-3-5	'3-5	9/26/2001	8.90 U	22.0 U							
TLS-7 0-.5	'0-0.5	8/21/2001	0.0990 U	0.250 U							
TLS-8-0-0.5	'0-0.5	9/7/2001	0.0760 U	0.190 U				0.300 JN			
TLS-8-6-8	'6-8	9/7/2001	0.0870 U	0.220 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-Di-N-Propylamine mg/kg	N-Nitro-sodiphenylamine mg/kg	N-Pentadecane (c15) mg/kg	N-Tetradecane (c14) mg/kg	O-Chloroaniline mg/kg	Octadecanoic Acid (stearic Acid) mg/kg	Octadecanoic Acid, Butyl Ester mg/kg	Oleic Acid mg/kg	P-Aminotoluene mg/kg
TLS-9 0-.5	'0-0.5	8/21/2001	0.360 U	0.910 U					1.20 JN		
TP-105	'0-0	6/8/2007	0.0210 U	0.0140 U							
TP-105A	'0-0	6/8/2007	0.0210 U	0.0140 U							
TP-106-A	'0-0	6/8/2007	0.0220 U	0.0140 U							
TP-106-B	'0-0	6/8/2007	0.0210 U	0.0140 U							
WWT-1-0-0.5	'0-0.5	7/19/2001	0.390 U	0.980 U							
WWT-101-15-17	'15-17	11/6/2006	0.0270 U	0.0170 U							
WWT-101-21-23	'21-23	11/6/2006	0.0250 U	0.0160 U							
WWT-1-12-14	'12-14	8/23/2001	5.20 U	13.0 U							
WWT-2-0-0.5	'0-0.5	8/23/2001	0.0720 U	0.180 U							
WWT-2-12-14	'12-14	8/23/2001	0.250 U	0.630 U							
WWT-3-0-0.5	'0-0.5	8/23/2001	0.360 U	0.900 U							
WWT-3-12-14	'12-14	8/23/2001	0.160 U	0.390 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
SRS			10			300000				
12K-B1-0.5-2	'0.5-2	9/6/2001	0.850 U			0.0850 U				
12K-B1-0-0.5	'0-0.5	9/6/2001	0.790 U			0.0970				
12K-B2-0.5-2	'0.5-2	9/6/2001	0.790 U			0.0790 U				
12K-B2-0-0.5	'0-0.5	9/6/2001	0.810 U			0.0420 J				
150K-1-0.5-2	'0.5-2	9/10/2001	0.770 U			0.464				
150K-1-0-0.5	'0-0.5	9/10/2001	4.00 U			2.86				
230-B1-0.5	'0-0.5	10/2/2001	0.790 U			0.795				
230-B10-0-0.5	'0-0.5	8/30/2001	0.990 U			0.524				
230-B10-1.5-2	'1.5-2	8/30/2001	0.860 U			1.63				
230-B11-0-0.5	'0-0.5	8/30/2001	0.720 U			0.117				
230-B11-1.5-2	'1.5-2	8/30/2001	0.720 U			0.139				
230-B1-4-6	'4-6	10/2/2001	3.90 U			0.108 J				
230-B2-0-0.5	'0-0.5	8/30/2001	0.800 U			0.0257 J				
230-B2-1.5-2	'1.5-2	8/30/2001	0.720 U			0.148				
230-B3-0-0.5	'0-0.5	8/30/2001	0.760 U			0.0760 U				
230-B3-1.5-2	'1.5-2	8/30/2001	0.780 U			0.562				
230-B4-0-0.5	'0-0.5	8/30/2001	0.800 U			0.202				
230-B4-1.5-2	'1.5-2	8/30/2001	0.760 U			0.404				
230-B5-0-0.5	'0-0.5	9/13/2001	0.800 U			0.143				
230-B5-1.5-2	'1.5-2	9/13/2001	0.750 U			0.418				
230-B6 0-0.5	'0-0.5	8/22/2001	0.760 U			0.0904				
230-B6 1.5-2	'1.5-2	8/22/2001	0.760 U			0.0760 U				
230-B7 0-0.5	'0-0.5	8/22/2001	0.810 U			0.0572 J				
230-B7 1.5-2	'1.5-2	8/22/2001	0.820 U			0.0467 J				
230-B8 1.5-2	'1.5-2	8/22/2001	0.830 U			1.28				
230-B9 0-0.5	'0-0.5	8/22/2001	0.710 U			0.187				
230-B9 0-0.5	'0-0.5	8/22/2001	0.770 U			0.0228 J				
230-B9 1.5-2	'1.5-2	8/22/2001	0.750 U			0.0750 U				
231-B1-0-0.5	'0-0.5	10/5/2001	0.750 U			0.0750 U				
231-B10-0-0.5	'0-0.5	9/17/2001	0.830 U			0.0830 U				
231-B11-0-0.5	'0-0.5	9/19/2001	0.940 U			0.0420 J				
231-B11-8-10	'8-10	9/19/2001	0.850 U			0.0427 J				
231-B12-0-0.5	'0-0.5	9/17/2001	0.750 U			0.0285 J				
231-B13-0-0.5	'0-0.5	9/19/2001	3.90 U			0.390 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
231-B13-8-10	'9-10	9/27/2001	0.770 U			0.101				
231-B14-0-0.5	'0-0.5	9/19/2001	0.820 U			0.0263 J				
231-B2-0.5-2	'0.5-2	8/22/2001	0.740 U			0.187				
231-B2-0-0.5	'0-0.5	8/22/2001	0.740 U			0.0740 U				
231-B3-0-0.5	'0-0.5	8/22/2001	0.770 U			0.0222 J				
231-B4-0-0.5	'0-0.5	8/30/2001	0.770 U			0.0209 J				
231-B4-6-8	'6-8	9/27/2001	0.800 U			0.0683 J				
231-B5-0.5-2	'0.5-2	9/19/2001	0.840 U			0.508				
231-B6-0-0.5	'0-0.5	9/27/2001	0.910 U			0.186				
231-B6-4-6	'4-6	9/27/2001	0.750 U			0.123				
231-B7-0-0.5	'0-0.5	9/13/2001	4.10 U			0.265 J				
231-B8-0-0.5	'0-0.5	9/27/2001	0.500 J			0.210 J				
231-B8-8-10	'8-10	9/27/2001	65.0 U			5.37 J				
231-B9-0.5-2	'0.5-2	9/27/2001	0.940 U			0.0744 J				
231-B9-0-0.5	'0-0.5	9/27/2001	0.772 J			0.219 J				
240-1-0-0.5	'0-0.5	9/26/2001	0.810 U			0.136				
240-1-8-10	'8-10	10/1/2001	0.810 U			0.0810 U				
5K-B1-0-0.5	'0-0.5	10/1/2001	4.10 U			0.152 J				
5K-B2-0-0.5	'0-0.5	8/31/2001	0.710 U			0.0710 U				
5K-B2-8-10	'8-10	8/31/2001	0.820 U			0.964				
5K-B3-0-0.5	'0-0.5	9/26/2001	0.800 U			0.0285 J				
5K-B4-0-0.5	'0-0.5	10/1/2001	4.60 U			0.460 U				
5K-B4-4-6	'4-6	10/1/2001	5.50 U			3.11				
5K-B5-0-0.5	'0-0.5	8/31/2001	0.780 U			6.18				
5K-B5-4-6	'4-6	9/26/2001	0.870 U			0.883				
AB-1-0-0.5	'0-0.5	9/4/2001	0.425 J			0.259				
AB-2-0.5-2	'0.5-2	9/4/2001	0.870 U			0.250				
AB-2-0-0.5	'0-0.5	9/4/2001	0.810 U			0.0724 J				
ADN-1-0-0.5	'0-0.5	9/5/2001	0.760 U			1.40				
ADN-1-8-10	'8-10	9/5/2001	0.960 U			4.32				
ADN-2-0-0.5	'0-0.5	9/5/2001	0.820 U			0.0820 U				
ADN-2-10-11	'10-11	9/27/2001	0.800 U			0.0800 U				
ADS-1-0-.5	'0-0.5	7/17/2001	3.70 U			0.205 J				
ADS-10-0-0.5	'0-2	7/18/2001	0.770 U			0.324				
ADS-101-0-1	'0-1	12/5/2006	0.0430 U			0.0369 J				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
ADS-101-1-3	'1-3	12/5/2006	0.0430 U			0.0170 U				
ADS-102-0-1.5	'0-2	12/5/2006	0.0420 U			0.184				
ADS-102-7-8	'4-8	12/5/2006	0.0450 U			0.0180 U				
ADS-10-4-6	'4-6	7/18/2001	0.950 U			0.0770 J				
ADS-11-0-0.5	'0-2	7/18/2001	0.760 U			0.477				
ADS-12-0.5-2	'0.5-2	7/18/2001	0.870 U			0.0601 J				
ADS-12-0-0.5	'0-0.5	7/18/2001	0.850 U			0.0685 J				
ADS-2-0-0.5	'0-0.5	7/18/2001	0.800 U			0.0800 U				
ADS-2-4-6	'4-6	7/18/2001	0.810 U			0.0810 U				
ADS-3-0-0.5	'0-0.5	7/18/2001	0.780 U			0.0792				
ADS-4-0-0.5	'0-2	7/18/2001	0.770 U			0.251				
ADS-4-12-14	'12-14	7/18/2001	0.850 U			13.2				
ADS-5-0-0.5	'0-0.5	7/18/2001	3.60 U			0.360 U				
ADS-5-4-6	'4-6	9/27/2001	0.740 U			0.0740 U				
ADS-6-0.5-2	'0.5-2	7/18/2001	0.760 U			0.369				
ADS-6-0-0.5	'0-0.5	7/18/2001	3.80 U			0.246 J				
ADS-7-0-.5	'0-0.5	7/17/2001	3.60 U			0.825				
ADS-8-0-0.5	'0-0.5	7/18/2001	0.820 U			0.0403 J				
ADS-8-4-6	'4-6	7/18/2001	0.830 U			0.0972				
ADS-9-0-0.5	'0-0.5	7/18/2001	0.860 U			0.120				
BLIND DUP	'0-0	8/21/2001	0.710 U			0.230				
BSL-10-0-1	'0-1	9/21/2001	0.990 U			0.0990 U				
BSL-1-0-1	'0-1	9/20/2001	0.790 U			0.150				
BSL-11-0-1	'0-1	9/26/2001	0.960 U			0.0315 J				
BSL-12-0-1	'0-1	9/26/2001	0.760 U			0.0760 U				
BSL-1-4-6	'4-6	9/20/2001	0.980 U			0.0980 U				
BSL-2-0-1	'0-1	9/21/2001	1.00 U			0.164				
BSL-3-0-0.5	'0-0.5	9/20/2001	0.710 U			0.0710 U				
BSL-4-0-1	'0-0.5	9/21/2001	0.860 U			0.0860 U				
BSL-4-4-6	'4-6	9/21/2001	1.40 U			0.140 U				
BSL-5-0-.5	'0-0.5	9/21/2001	0.820 U			0.0820 U				
BSL-6-0-1	'0-1	9/26/2001	1.10 U			0.184				
BSL-6-1-2	'1-2	9/26/2001	1.30 U			0.130 U				
BSL-7-0-.5	'0-0.5	9/21/2001	0.980 U			0.0980 U				
BSL-8-0-1	'0-1	9/26/2001	1.20 U			0.120 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
BSL-9-.5-2	'0.5-2	9/21/2001	1.10 U			0.110 U				
BSL-9-0-.5	'0-0.5	9/21/2001	0.840 U			0.0840 U				
BT-B1-0-0.5	'0-0.5	9/18/2001	0.810 U			0.249				
BT-B2-0.5-2	'0.5-2	9/18/2001	0.790 U			0.0353 J				
BT-B2-0-0.5	'0-0.5	9/18/2001	0.860 U			0.199				
BT-B3-0-0.5	'0-0.5	9/18/2001	3.90 U			0.390 U				
BT-B4-0.5-2	'0.5-2	8/30/2001	0.770 U			0.168				
BT-B4-0-0.5	'0-0.5	8/30/2001	3.40 U			0.110 J				
BT-B5-0-.5	'0-0.5	10/2/2001	0.810 U			0.127				
BT-B6-0.5-2	'0.5-2	9/17/2001	0.880 U			0.125				
BT-B6-0-0.5	'0-0.5	9/17/2001	3.40 U			0.340 U				
CF-1-0-0.5	'0-0.5	8/31/2001	0.740 U			0.0304 J				
CF-1-2-4	'2-4	8/31/2001	0.740 U			0.827				
CF-2-0-0.5	'0-0.5	8/28/2001	0.820 U			0.0904				
CF-3-0.5-2	'0.5-2	8/28/2001	1.30 U			0.130 U				
CF-3-0-0.5	'0-0.5	8/28/2001	0.990 U			0.344				
CF-4-0-0.5	'0-0.5	8/28/2001	0.870 U			0.152				
CF-5-0-0.5	'0-0.5	8/28/2001	0.700 U			0.0700 U				
CF-5-4-6	'4-6	8/28/2001	0.750 U			0.0540 J				
CF-6-0-0.5	'0-0.5	8/28/2001	0.770 U			0.0892				
CF-7-0-0.5	'0-0.5	8/28/2001	0.750 U			0.103				
CF-7-4-6	'4-6	8/28/2001	0.700 U			0.345				
CF-8-0-0.5	'0-0.5	8/28/2001	0.770 U			0.389				
CF-9-0.5-2	'0.5-2	8/31/2001	0.720 U			0.0242 J				
CF-9-0-0.5	'0-0.5	8/31/2001	0.740 U			0.0223 J				
DC-B12-0-0.5	'0-0.5	10/3/2001	0.760 U			0.152				
DC-B12-2-4	'2-4	10/3/2001	0.730 U			0.115				
DC-SS1-0-0.5	'0-0.5	9/18/2001	0.730 U			0.354				
DC-SS11-0-0.5	'0-0.5	9/17/2001	3.70 U			55.1				
DC-SS13-0-0.5	'0-0.5	9/17/2001	3.50 U			0.122 J				
DC-SS15-0-0.5	'0-0.5	9/17/2001	4.10 U			6.49				
DC-SS17-0-0.5	'0-0.5	9/17/2001	0.850 U			8.63				
DC-SS2-0-0.5	'0-0.5	9/17/2001	0.740 U			0.0352 J				
DC-SS3-0-0.5	'0-0.5	9/17/2001	0.880 U			0.0967				
DC-SS6-0-0.5	'0-0.5	9/17/2001	0.171 J			0.0659 J				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.760 U			0.0341 J				
DC-SS9-0-0.5	'0-0.5	9/17/2001	0.760 U			0.792				
DSP-1-0-0.5	'0-0.5	10/3/2001	0.820 U			0.0820 U				
DSP-1-4-6	'4-6	11/19/2001	0.820 U			0.0820 U				
DSP-2-0-0.5	'0-0.5	9/4/2001	0.740 U			0.0416 J				
DSP-3-0-0.5	'0-0.5	9/4/2001	3.80 U			0.380 U				
DSP-3-2-4	'2-4	9/4/2001	0.830 U			0.0830 U				
DSP-4-0-0.5	'0-0.5	9/4/2001	0.850 U			0.0445 J				
DSP-4-4-6	'4-6	9/26/2001	0.860 U			0.0608 J				
DUP-01-010824	'0-0.5	8/24/2001	0.770 U			0.924				
DUP-01-010831	'2-4	8/31/2001	0.750 U			0.690				
DUP-01-010904	'0-0.5	9/4/2001	3.70 U			0.242 J				
DUP-01-010905	'8-10	9/5/2001	0.840 U			13.3				
DUP-01-010906	'0-8	9/6/2001	3.10 U			343.				
DUP-01-010913	'0-0.5	9/13/2001	3.80 U			0.380 U				
DUP-01-010917	'0-0.5	9/17/2001	0.770 U			0.854				
DUP-01-010926	'1-2	9/26/2001	1.30 U			0.179				
DUP-01-010927	'4-6	9/27/2001	0.740 U			0.0740 U				
DUP-01-021001	'0-0	10/2/2001	0.216 J			0.233				
DUP-01-08 2201	'1.5-2	8/22/2001	0.800 U			0.0494 J				
DUP-01-121001	'0-0	10/12/2001	0.770 U			0.111				
DUP-01-170402	'0-0	4/17/2002	1.80 U			4.20				
DUP-02-010913	'0-0.5	9/13/2001	4.30 U			0.203 J				
DUP-02-010921	'0-1	9/21/2001	0.910 U			0.0910 U				
DUP-02-010926	'4-6	9/26/2001	0.900 U			0.275				
DUP060807	'0-0	6/8/2007	0.0380 U			0.0249 J				
DUP-1-010828	'0-0.5	8/28/2001	0.770 U			0.0396 J				
DUP-1-010921	'0-0.5	9/21/2001	1.00 U			0.100 U				
DUP110606	'15-17	11/6/2006	0.0470 U			0.0180 U				
DUP112006	'16-18	11/20/2006	0.0730 U			0.0290 U				
DUP112106	'10-12	11/21/2006	0.0770 U			0.0300 U				
DUP-120506	'0-4	12/5/2006	0.110 U			0.109 J				
DUP-120606	'0-4	12/6/2006	0.0380 U			0.175				
DUPE071801	'0-0.5	7/18/2001	0.740 U			0.0740 U				
EC-1	'0-1	8/21/2001	0.760 U			0.0390 J				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
EC-2	'0-1	8/21/2001	0.750 U			0.319				
EC-3	'0-1	8/21/2001	0.710 U			0.0821				
EC-4	'0-1	8/21/2001	0.740 U			0.0845				
EC-5	'0-1	8/21/2001	0.740 U			0.0740 U				
EC-6	'0-1	8/21/2001	0.820 U			0.0820 U				
EC-7	'0-1	8/21/2001	0.800 U			0.103				
EC-8	'0-1	8/21/2001	0.740 U			0.114				
EC-9	'0-1	8/21/2001	0.870 U			0.419				
ESR-1-0-1	'0-0.5	9/4/2001	0.710 U			0.0710 U				
ESR-1-4-6	'4-6	9/4/2001	0.830 U			0.0830 U				
HB-101A	'17-17	3/5/2007	0.0430 U			0.247				
HB-102A	'0-0	3/13/2007	0.0670 U			0.0260 U				
HB-102B	'0-0	3/14/2007	0.0460 U			0.482				
HB-102C	'0-0	3/14/2007	0.0420 U			0.0423 J				
H-B-103A	'17-17	2/20/2007	0.0590 U			1.71				
H-B-104A	'17-17	2/23/2007	0.0460 U			0.0182 J				
H-B-104B	'17-17	2/23/2007	0.0430 U			0.0170 U				
H-B-104C	'17-17	2/23/2007	0.0470 U			33.6				
H-B-104D	'17-17	2/27/2007	0.0440 U			0.124				
H-B-104E	'17-17	2/27/2007	0.0440 U			2.13				
H-B-105C	'17-17	2/8/2007	0.0420 U			0.238				
H-B-105D	'17-17	2/8/2007	0.0460 U			0.0626 J				
H-B-105E	'0-0	2/8/2007	0.0450 U			0.0180 U				
HB-1A	'6.75-6.75	4/18/2002	1.20 U			1.57				
HB-3A	'5.25-5.25	4/17/2002	2.10 U			6.42				
HB-3B	'4.5-4.5	4/17/2002	0.780 U			0.0780 U				
HB-3C	'4.5-4.5	4/18/2002	0.770 U			0.0484 J				
HB-3D	'4.5-4.5	4/18/2002	0.800 U			0.0800 U				
HB-4A	'5.33-5.33	4/19/2002	0.780 U			0.270				
HB-5A	'3-3	4/22/2002	0.830 U			2.42				
HB-7A	'5-5	4/19/2002	0.830 U			0.907				
HB-8A	'3-3	4/23/2002	0.800 U			0.245				
HB-8B	'4.83-4.83	4/23/2002	0.790 U			0.371				
HB-8C	'5.5-5.5	4/23/2002	0.820 U			0.798				
HB-9A	'4.75-4.75	4/24/2002	0.830 U			15.9				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
HF-B1-0-0.5	'0-0.5	9/10/2001	0.800 U			0.185				
HF-B1-8-10	'8-10	9/10/2001	0.930 U			0.695				
HF-B2-0-0.5	'0-0.5	9/4/2001	0.740 U			0.239				
HF-B2-4-6	'4-6	9/4/2001	0.740 U			0.772				
HF-B3-0-.5	'0-0.5	10/2/2001	0.740 U			5.58				
HF-B3-8-10	'8-10	10/2/2001	0.760 U			0.425				
IB-1-0-2	'0-2	4/8/2002	0.780 U			1.33				
IB-1-4-6	'4-6	4/8/2002	0.780 U			0.187				
IB-2-12-14	'12-14	4/8/2002	0.840 U			78.9				
IB-2-4-6	'4-6	4/8/2002	0.780 U			6.75				
IB-3-4-6	'4-6	4/8/2002	0.850 U			1.69				
IB-3-8-10	'8-10	4/8/2002	0.890 U			5.30				
LB-101-0-1	'0-1	12/6/2006	0.0400 U			0.0160 U				
LB-101-1-3	'1-3	12/6/2006	0.0380 U			0.182				
LB-102-0-1	'0-3	12/6/2006	0.0410 U			0.0160 U				
LB-102-1-3	'3-7	12/6/2006	0.0410 U			0.0160 U				
LB-103-0-1	'0-1	12/6/2006	0.0400 U			0.0292 J				
LB-103-5-7	'5-7	12/6/2006	0.0460 U			0.0467 J				
LHP-101-0-1	'0-1	12/4/2006	0.210 U			0.0810 U				
LHP-101-5-8	'4-8	12/4/2006	0.150 U			0.102 J				
LHP-102-0-1	'0-1	12/5/2006	0.0420 U			0.0583 J				
LHP-102-7-9	'7-9	12/5/2006	0.0520 U			0.235				
LHP-103-0-1	'0-1	12/5/2006	0.210 U			0.252 J				
LHP-103-1-3	'1-3	12/5/2006	0.0460 U			0.0934				
LHP-104-0-1	'0-1	12/5/2006	0.0390 U			0.0198 J				
LHP-104-7-9	'4-8	12/5/2006	0.0440 U			0.0629 J				
LHP-105-0-1	'0-1	12/5/2006	0.190 U			0.153 J				
LHP-105-1-3	'1-3	12/5/2006	0.0390 U			0.0242 J				
LHP-106-0-1	'0-1	12/4/2006	0.190 U			0.0926 J				
LHP-106-1-3	'1-3	12/4/2006	0.230 U			0.0910 U				
LHP-107-0-1	'0-1	12/5/2006	0.0400 U			0.152				
LHP-107-5-7	'4-8	12/5/2006	0.0430 U			0.0328 J				
LHP-108-0-1	'0-1	12/6/2006	0.0420 U			0.393				
LHP-108-3-7	'3-7	12/6/2006	0.0450 U			0.0180 U				
LHP-109-0-1	'0-1	12/6/2006	0.0430 U			0.0647 J				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
LHP-109-7-9	'7-9	12/6/2006	0.0510 U			0.176				
LHP-110-0-1	'0-1	12/4/2006	0.430 U			1.03				
LHP-111-0-1	'0-1	12/4/2006	0.0420 U			0.0455 J				
LHP-112-0-1	'0-1	12/4/2006	0.0420 U			1.16				
LHP-113-0-1	'0-1	12/4/2006	0.0390 U			0.0543 J				
LHP-114-0-1	'0-1	12/4/2006	0.0410 U			0.0184 J				
LHP-115-0-1	'0-1	12/4/2006	0.0390 U			0.0150 U				
LHP-116-0-1	'0-1	12/4/2006	0.0420 U			0.0277 J				
LHP-117-0-1	'0-1	12/4/2006	0.0430 U			0.0367 J				
LHP-118-0-1	'0-1	12/4/2006	0.220 U			0.0860 U				
LHP-119-0-1	'0-1	12/4/2006	0.0430 U			0.0529 J				
LHP-120-0-1	'0-1	12/4/2006	0.0480 U			0.140				
LHP-121-0-1	'0-1	12/6/2006	0.0420 U			0.0643 J				
LHP-122-0-1	'0-1	12/6/2006	0.0400 U			0.0528 J				
LHP-123-0-1	'0-1	12/4/2006	0.0430 U			0.0968				
LHP-124-.5-2	'0.5-2	10/27/2006	0.0430 U			0.449				
LHP-124-10-12	'10-12	10/31/2006	0.0690 U			0.0270 U				
LHP-124-2-4	'2-4	10/27/2006	0.0440 U			0.131				
LHP-124-28-30	'28-30	10/31/2006	0.0520 U			0.0200 U				
LHP-125-.5-2	'0.5-2	10/27/2006	0.0420 U			0.589				
LHP-125-10.5-12	'10.5-12	11/1/2006	0.0480 U			0.0190 U				
LHP-125-12-14	'12-14	11/1/2006	0.0430 U			0.0170 U				
LHP-125-4-6	'4-6	10/27/2006	0.0410 U			0.0172 J				
LHP-126-10.5-12	'10.5-12	11/1/2006	0.180 UJ			0.0700 UJ				
LHP-126-14-16	'14-16	11/1/2006	0.0450 U			0.0170 U				
LHP-126-2-4	'2-4	10/26/2006	0.0410 U			0.0958				
LHP-126-8-10	'9-10	10/26/2006	0.0460 U			0.0812 J				
LHP-127-0-1	'0-1	12/6/2006	0.0400 U			0.533				
LHP-127-3-5	'3-5	12/6/2006	0.0390 U			0.0309 J				
LHP-128-0-1	'0-4	12/6/2006	0.0390 U			0.190				
LHP-128-7-8	'17-17	12/6/2006	0.0510 U			0.159				
LP-1-0-0.5	'0-0.5	8/27/2001	0.750 U			0.0750 U				
LP-10-0.5-2	'0.5-2	8/27/2001	0.840 U			0.0840 U				
LP-10-0-0.5	'0-0.5	8/27/2001	0.760 U			0.0829				
LP-101-11-13	'11-13	11/2/2006	0.0690 U			0.0270 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
LP-101-14-16	'14-16	11/2/2006	0.0600 U			0.0240 U				
LP-101-26-28	'26-28	11/2/2006	0.0430 U			0.0170 U				
LP-101-50-52	'50-52	11/2/2006	0.0430 U			0.0170 U				
LP-11-0-0.5	'0-0.5	8/27/2001	0.840 U			0.0769 J				
LP-12-0-0.5	'0-0.5	8/27/2001	0.740 U			0.0740 U				
LP-12-4-6	'4-6	8/27/2001	0.730 U			0.0730 U				
LP-13-0-0.5	'0-0.5	8/24/2001	0.154 J			0.0732 J				
LP-14-0.5-2	'0.5-2	8/24/2001	0.710 U			0.0912				
LP-14-0-0.5	'0-0.5	8/24/2001	3.70 U			0.555				
LP-15-0-0.5	'0-0.5	8/24/2001	0.760 U			0.0847				
LP-16-0.5-2	'0.5-2	8/27/2001	3.60 U			0.360 U				
LP-16-0-0.5	'0-0.5	8/27/2001	0.770 U			0.0891				
LP-2-0.5-2	'0.5-2	8/28/2001	0.760 U			0.287				
LP-2-0-0.5	'0-0.5	8/28/2001	0.750 U			0.0605 J				
LP-3-0-0.5	'0-0.5	8/27/2001	0.710 U			0.417				
LP-4 .5-2	'0.5-2	8/21/2001	0.740 U			0.857				
LP-4 0-.5	'0-0.5	8/21/2001	0.800 U			0.0578 J				
LP-5-0-0.5	'0-0.5	8/27/2001	0.750 U			0.0891				
LP-6-0-0.5	'0-0.5	8/27/2001	0.730 U			0.0626 J				
LP-6-4-6	'4-6	8/27/2001	0.740 U			0.0740 U				
LP-7-0-0.5	'0-0.5	8/24/2001	0.780 U			0.408				
LP-8-0-0.5	'0-0.5	8/24/2001	0.810 U			0.200				
LP-8-10-12	'10-12	8/24/2001	1.10 U			0.110 U				
LP-9-0-0.5	'0-0.5	8/24/2001	3.70 U			0.221 J				
MW-11D-12-14	'12-14	12/14/2006	0.0660 U			0.0260 U				
MW-11D-14-16	'14-16	12/14/2006	0.0450 U			0.0170 U				
MW-11D-16-18	'16-18	12/14/2006	0.0440 U			0.0170 U				
MW-14D-13-15	'13-15	11/14/2006	0.0480 U			0.0190 U				
MW-14D-17-19	'17-19	11/14/2006	0.0440 U			0.0170 U				
MW-16D-13-15	'13-15	11/17/2006	0.0430 U			0.0170 U				
MW-16D-17-19	'17-19	11/20/2006	0.0440 U			0.0170 U				
MW-17D-15-17	'15-17	11/10/2006	0.0470 U			0.418				
MW-17D-17-19	'17-19	11/10/2006	0.0440 U			0.0170 U				
MW-18D-13-15	'13-15	11/13/2006	0.0470 U			0.0180 U				
MW-18D-17-19	'17-19	11/13/2006	0.0430 U			0.0170 U				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
MW-20D-12-14	'12-14	11/9/2006	0.0450 U			0.0180 U				
MW-20D-32-34	'32-32.9	11/10/2006	0.0430 U			0.0170 U				
MW-20D-36-38	'36-38	11/10/2006	0.0440 U			0.0170 U				
MW-21D-13-15	'13-13.7	11/16/2006	0.0460 U			0.0180 U				
MW-21D-15-17	'15-17	11/16/2006	0.0440 U			0.0170 U				
MW-23D-15-17	'15-16	11/15/2006	0.0460 U			0.0180 U				
MW-23D-37-39	'37-37.9	11/15/2006	0.0430 U			0.0170 U				
MW-25D-10-12	'10-12	11/21/2006	0.0790 U			0.0310 U				
MW-25D-33-35	'33-35	12/18/2006	0.0470 U			0.0190 U				
MW-26S-8-10	'8-10	10/26/2006	0.0490 UJ			0.0190 UJ				
MW-6D-0-2	'0-2	11/8/2006	0.0420 U			0.0170 U				
MW-6D-12-14	'12-14	11/8/2006	0.0980 U			0.0390 U				
MW-6D-16-18	'16-18	11/20/2006	0.0690 U			0.0270 U				
MW-6D-30-32	'30-32	11/21/2006	0.0440 U			0.0170 U				
PCA-1-0-.5	'0-2	7/17/2001	3.60 U			0.360 U				
PCA-1-4-6	'4-6	7/17/2001	0.800 U			0.0800 U				
PCA-2-0-.5	'0-0.5	7/17/2001	0.730 U			0.0730 U				
PCA-3-0-0.5	'0-0.5	9/13/2001	1.60 U		0.500 J	0.192				
PCA-3-4-6	'4-6	9/13/2001	0.850 U			0.237				
PCA-4-0-0.5	'0-0.5	9/13/2001	3.80 U			0.380 U				
PCA-4-4-6	'4-6	9/26/2001	0.830 U			0.0830 U				
PCA-5-0.5-2	'0.5-2	9/7/2001	0.780 U			0.110				
PCA-5-0-0.5	'0-0.5	9/7/2001	0.850 U			0.169				
PCA-6-0-0.5	'0-0.5	9/7/2001	0.710 U			0.439				
RR-1 0-0.5	'0-0.5	8/22/2001	0.740 U			19.1				
RR-1 14-16	'14-16	8/22/2001	0.820 U			0.902				
RR-10 0-.5	'0-0.5	10/12/2001	0.740 U			0.189				
RR-11 0-.5	'0-0.5	10/12/2001	0.800 U			0.0766 J				
RR-12 0-.5	'0-0.5	10/12/2001	0.780 U			0.101				
RR-2-0-0.5	'0-0.5	9/13/2001	4.20 U			0.0873 J				
RR-2-8-10	'8-10	9/13/2001	0.990 U			0.0841 J				
RR-3-0-0.5	'0-0.5	9/13/2001	0.720 U			0.0339 J				
RR-4-0-0.5	'0-0.5	9/10/2001	0.800 U			0.531				
RR-4-6-8	'6-8	9/13/2001	0.770 U			0.0763 J				
RR-5-0-0.5	'0-0.5	9/10/2001	0.690 U			0.153				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
RR-6-0-0.5	'0-0.5	9/10/2001	0.720 U			0.106				
RR-6-8-10	'8-10	9/10/2001	0.760 U			0.0430 J				
RR-7-0-0.5	'0-0.5	9/10/2001	0.760 U			0.0483 J				
RR-8-0-0.5	'0-0.5	9/26/2001	0.860 U			0.169				
RR-8-6-8	'6-8	9/26/2001	1.40 U			0.140 U				
RR-9 0-.5	'0-0.5	10/12/2001	0.730 U			0.0523 J				
SC-1	'0-1	8/21/2001	0.900 U			0.0334 J				
SC-2	'0-1	8/22/2001	0.700 U			0.230				
SC-3	'0-1	8/22/2001	0.780 U			0.0732 J				
SILO-B1-0-0.5	'0-0.5	9/6/2001	0.770 U			0.0893				
SILO-B1-6-8	'6-8	9/6/2001	3.00 U			114.				
SILO-B2-0-0.5	'0-0.5	9/6/2001	3.60 U			0.360 U				
SILO-B3-0-0.5	'0-0.5	9/6/2001	4.10 U			0.107 J				
SILO-B3-6-8	'6-8	9/6/2001	0.740 U			0.0740 U				
SILO-B4-0-0.5	'0-0.5	9/6/2001	4.20 U			0.136 J				
SPR-1-0-0.5	'0-0.5	9/5/2001	3.80 U			0.131 J				
SPR-1-8-10	'8-10	9/5/2001	1.00 U			0.0420 J				
SPR-2A-0-0.5	'0-0.5	7/19/2001	0.750 U			0.136				
SPR-2A-8-10	'8-10	7/19/2001	0.880 U			0.0880 U				
SPR-2B-0-0.5	'0-0.5	7/19/2001	0.720 U			0.178				
SPR-2B-10-12	'10-12	7/19/2001	1.00 U			0.100 U				
SPR-3 0-.5	'0-0.5	8/21/2001	0.720 U			0.0348 J				
SPR-3 4-6	'4-6	8/21/2001	0.860 U			0.0860 U				
SPR-4A-0-0.5	'0-0.5	7/19/2001	0.810 U			0.576				
SPR-4A-8-10	'8-10	7/19/2001	1.10 U	1.30 JN		0.110 U				
SPR-4B-0-0.5	'0-0.5	8/22/2001	0.800 U			0.0800 U				
SPR-4B-4-6	'4-6	8/23/2001	0.800 U			0.0800 U				
SPR-4C-0-0.5	'0-0.5	8/23/2001	3.70 U			0.267 J				
SPR-4C-4-6	'4-6	8/23/2001	0.860 U			0.0439 J				
SPR-5-0-0.5	'0-0.5	9/5/2001	21.0 U			53.2				
SPR-5-2-4	'2-4	9/5/2001	0.860 U			0.0860 U			0.390 JN	4.70 JN
SPR-6-0.5-2	'0.5-2	9/13/2001	0.750 U			0.994				
SPR-6-0-0.5	'0-0.5	9/13/2001	0.680 U			0.0680 U				
SR-1-0-.5	'0-0.5	7/17/2001	0.710 U			0.100				
SR-2-0-.5	'0-0.5	7/17/2001	0.680 U			0.228				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
ST-1-0-0.5	'0-0.5	9/5/2001	4.00 U			0.400 U				
ST-2-0-0.5	'0-0.5	9/5/2001	4.00 U			1.55				
ST-3-0-0.5	'0-0.5	9/4/2001	0.790 U			0.0790 U				
ST-3-4-6	'4-6	9/4/2001	1.00 U			2.02				
TES-1-0-1	'0-1	12/5/2006	0.220 U			0.135 J				
TES-2-0-1	'0-1	12/4/2006	0.460 U			0.180 U				
TES-3-0-1	'0-1	12/4/2006	0.230 U			0.0900 U				
TES-4-0-1	'0-1	12/5/2006	0.0410 U			0.155				
TLN-1 .5-2	'0.5-2	8/20/2001	0.840 U			0.211				
TLN-1 0-.5	'0-0.5	8/20/2001	0.830 U			0.0737 J				
TLN-2-0-0.5	'0-0.5	7/19/2001	0.740 U			0.0740 U				
TLN-3-0-.5	'0-0.5	7/17/2001	3.40 U			58.2				
TLN-3-2-4	'2-4	7/17/2001	0.780 U			0.476				
TLN-4 0-.5	'0-0.5	8/20/2001	0.690 U			0.0300 J				
TLN-4 0-.5 DUP	'0-0.5	8/20/2001	0.730 U			0.0681 J				
TLN-5 .5-2	'0.5-2	8/20/2001	0.720 U			0.346				
TLN-5 0-.5	'0-0.5	8/20/2001	0.720 U			0.375				
TLN-5-4-6	'4-6	8/30/2001	0.730 U			0.112				
TLN-6 0-.5	'0-0.5	8/20/2001	0.720 U			0.350				
TLS-10 0-.5	'0-0.5	8/21/2001	0.780 U			0.0780 U				
TLS-10 8-10	'8-10	8/21/2001	0.970 U			0.0461 J				
TLS-1-0-0.5	'0-0.5	9/5/2001	3.90 U			0.390 U				
TLS-11-0-0.5	'0-0.5	9/7/2001	0.750 U			0.0737 J				
TLS-2-0-0.5	'0-0.5	9/7/2001	3.70 U			0.370 U				
TLS-2-6-8	'6-8	9/7/2001	1.20 U			0.120 U				
TLS-3 0-.5	'0-0.5	8/21/2001	0.740 U			0.103				
TLS-4-0-0.5	'0-0.5	9/7/2001	0.730 U			0.123				
TLS-4-8-10	'8-10	9/7/2001	1.10 U			0.939				
TLS-5 0-0.5	'0-0.5	8/21/2001	0.710 U			0.0260 J				
TLS-5-8-10	'8-10	9/26/2001	1.00 U			0.119				
TLS-6 0-.5	'0-0.5	8/21/2001	0.900 U			0.175	0.370 JN	7.90 JN		
TLS-6-3-5	'3-5	9/26/2001	89.0 U			8.90 U				
TLS-7 0-.5	'0-0.5	8/21/2001	0.990 U			0.0860 J				
TLS-8-0-0.5	'0-0.5	9/7/2001	0.760 U			0.0432 J				
TLS-8-6-8	'6-8	9/7/2001	0.870 U			0.186				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Penta-chlorophenol mg/kg	Pentadecanoic Acid mg/kg	Phenanthrene, 1,2,3,4,4a,9,10,10a-Octahy mg/kg	Phenanthrene mg/kg	Phenol, 2-(1,1-Dimethylethyl)-4-Me mg/kg	Phenol, 2,2'-Methylenebis_6-(1,1-D mg/kg	Phenol, 2,4,6-Tris(1,1-Dimethylethyl)- mg/kg	Phenol, 2,4-Bis(1,1-Dimethylpropyl)- mg/kg
TLS-9 0-.5	'0-0.5	8/21/2001	3.60 U			0.360 U				
TP-105	'0-0	6/8/2007	0.0370 U			0.0228 J				
TP-105A	'0-0	6/8/2007	0.0370 U			0.0150 U				
TP-106-A	'0-0	6/8/2007	0.0380 U			0.0150 U				
TP-106-B	'0-0	6/8/2007	0.0370 U			0.0150 U				
WWT-1-0-0.5	'0-0.5	7/19/2001	3.90 U			0.390 U				
WWT-101-15-17	'15-17	11/6/2006	0.0470 U			0.0180 U				
WWT-101-21-23	'21-23	11/6/2006	0.0440 U			0.0170 U				
WWT-1-12-14	'12-14	8/23/2001	52.0 U			5.83				
WWT-2-0-0.5	'0-0.5	8/23/2001	0.720 U			0.0481 J				
WWT-2-12-14	'12-14	8/23/2001	2.50 U			0.169 J				
WWT-3-0-0.5	'0-0.5	8/23/2001	3.60 U			0.154 J				
WWT-3-12-14	'12-14	8/23/2001	1.60 U			0.512				

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
SRS							210000		
12K-B1-0.5-2	'0.5-2	9/6/2001					0.210 U		
12K-B1-0-0.5	'0-0.5	9/6/2001					0.200 U		
12K-B2-0.5-2	'0.5-2	9/6/2001					0.200 U		
12K-B2-0-0.5	'0-0.5	9/6/2001					0.200 U		
150K-1-0.5-2	'0.5-2	9/10/2001					0.190 U		
150K-1-0-0.5	'0-0.5	9/10/2001					1.00 U		
230-B1-0.5	'0-0.5	10/2/2001					0.200 U		
230-B10-0-0.5	'0-0.5	8/30/2001					0.250 U		
230-B10-1.5-2	'1.5-2	8/30/2001					0.210 U		
230-B11-0-0.5	'0-0.5	8/30/2001					0.180 U		
230-B11-1.5-2	'1.5-2	8/30/2001					0.180 U		
230-B1-4-6	'4-6	10/2/2001					0.980 U		
230-B2-0-0.5	'0-0.5	8/30/2001					0.200 U		
230-B2-1.5-2	'1.5-2	8/30/2001					0.180 U		
230-B3-0-0.5	'0-0.5	8/30/2001					0.190 U		
230-B3-1.5-2	'1.5-2	8/30/2001				0.460 JN	0.200 U		
230-B4-0-0.5	'0-0.5	8/30/2001					0.200 U		
230-B4-1.5-2	'1.5-2	8/30/2001					0.190 U		
230-B5-0-0.5	'0-0.5	9/13/2001					0.200 U		
230-B5-1.5-2	'1.5-2	9/13/2001					0.190 U		
230-B6 0-0.5	'0-0.5	8/22/2001					0.190 U		
230-B6 1.5-2	'1.5-2	8/22/2001					0.190 U		
230-B7 0-0.5	'0-0.5	8/22/2001					0.200 U		
230-B7 1.5-2	'1.5-2	8/22/2001					0.200 U		
230-B8 1.5-2	'1.5-2	8/22/2001					0.210 U		
230-B9 0-0.5	'0-0.5	8/22/2001					0.180 U		
230-B9 0-0.5	'0-0.5	8/22/2001					0.190 U		
230-B9 1.5-2	'1.5-2	8/22/2001					0.190 U		
231-B1-0-0.5	'0-0.5	10/5/2001					0.190 U		
231-B10-0-0.5	'0-0.5	9/17/2001					0.210 U		
231-B11-0-0.5	'0-0.5	9/19/2001					0.230 U		
231-B11-8-10	'8-10	9/19/2001					0.210 U		
231-B12-0-0.5	'0-0.5	9/17/2001					0.190 U		0.180 JN
231-B13-0-0.5	'0-0.5	9/19/2001					0.960 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
231-B13-8-10	'9-10	9/27/2001					0.190 U		
231-B14-0-0.5	'0-0.5	9/19/2001					0.200 U		
231-B2-0.5-2	'0.5-2	8/22/2001					0.180 U		
231-B2-0-0.5	'0-0.5	8/22/2001					0.180 U		
231-B3-0-0.5	'0-0.5	8/22/2001					0.190 U		0.410 JN
231-B4-0-0.5	'0-0.5	8/30/2001					0.190 U		
231-B4-6-8	'6-8	9/27/2001					0.200 U		
231-B5-0.5-2	'0.5-2	9/19/2001					0.210 U		
231-B6-0-0.5	'0-0.5	9/27/2001					0.230 U		
231-B6-4-6	'4-6	9/27/2001					0.190 U		
231-B7-0-0.5	'0-0.5	9/13/2001					1.00 U		
231-B8-0-0.5	'0-0.5	9/27/2001					0.390 UJ		
231-B8-8-10	'8-10	9/27/2001					16.0 U		
231-B9-0.5-2	'0.5-2	9/27/2001					0.230 U		
231-B9-0-0.5	'0-0.5	9/27/2001					1.20 U		2.00 JN
240-1-0-0.5	'0-0.5	9/26/2001					0.200 U		0.200 JN
240-1-8-10	'8-10	10/1/2001					0.200 U		
5K-B1-0-0.5	'0-0.5	10/1/2001					1.00 U		
5K-B2-0-0.5	'0-0.5	8/31/2001					0.180 U		
5K-B2-8-10	'8-10	8/31/2001					0.200 U		
5K-B3-0-0.5	'0-0.5	9/26/2001					0.200 U		
5K-B4-0-0.5	'0-0.5	10/1/2001					1.20 U		
5K-B4-4-6	'4-6	10/1/2001	130. JN				1.40 U		
5K-B5-0-0.5	'0-0.5	8/31/2001					0.200 U		
5K-B5-4-6	'4-6	9/26/2001					0.220 U		
AB-1-0-0.5	'0-0.5	9/4/2001					0.200 U		
AB-2-0.5-2	'0.5-2	9/4/2001					0.220 U		
AB-2-0-0.5	'0-0.5	9/4/2001					0.200 U		
ADN-1-0-0.5	'0-0.5	9/5/2001					0.190 U		
ADN-1-8-10	'8-10	9/5/2001				1.90 JN	0.240 U		
ADN-2-0-0.5	'0-0.5	9/5/2001					0.200 U		
ADN-2-10-11	'10-11	9/27/2001					0.200 U		
ADS-1-0-.5	'0-0.5	7/17/2001					0.940 U		
ADS-10-0-0.5	'0-2	7/18/2001					0.190 U		
ADS-101-0-1	'0-1	12/5/2006					0.0480 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
ADS-101-1-3	'1-3	12/5/2006					0.0470 U		
ADS-102-0-1.5	'0-2	12/5/2006					0.0460 U		
ADS-102-7-8	'4-8	12/5/2006					0.0500 U		
ADS-10-4-6	'4-6	7/18/2001					0.240 U		
ADS-11-0-0.5	'0-2	7/18/2001					0.190 U		
ADS-12-0.5-2	'0.5-2	7/18/2001					0.220 U		
ADS-12-0-0.5	'0-0.5	7/18/2001					0.210 U		
ADS-2-0-0.5	'0-0.5	7/18/2001					0.200 U		
ADS-2-4-6	'4-6	7/18/2001					0.200 U		
ADS-3-0-0.5	'0-0.5	7/18/2001	0.490 JN			1.40 JN	0.190 U		
ADS-4-0-0.5	'0-2	7/18/2001					0.190 U		
ADS-4-12-14	'12-14	7/18/2001				1.50 JN	0.210 U		
ADS-5-0-0.5	'0-0.5	7/18/2001					0.900 U		
ADS-5-4-6	'4-6	9/27/2001					0.190 U		
ADS-6-0.5-2	'0.5-2	7/18/2001				0.180 JN	0.190 U		
ADS-6-0-0.5	'0-0.5	7/18/2001					0.950 U		
ADS-7-0-.5	'0-0.5	7/17/2001					0.900 U		
ADS-8-0-0.5	'0-0.5	7/18/2001					0.210 U		
ADS-8-4-6	'4-6	7/18/2001					0.210 U		
ADS-9-0-0.5	'0-0.5	7/18/2001					0.220 U		
BLIND DUP	'0-0	8/21/2001					0.180 U		
BSL-10-0-1	'0-1	9/21/2001					0.250 U		
BSL-1-0-1	'0-1	9/20/2001					0.200 U		
BSL-11-0-1	'0-1	9/26/2001					0.240 U		
BSL-12-0-1	'0-1	9/26/2001					0.190 U		
BSL-1-4-6	'4-6	9/20/2001					0.240 U		
BSL-2-0-1	'0-1	9/21/2001					0.250 U		
BSL-3-0-0.5	'0-0.5	9/20/2001			0.260 JN		0.180 U		
BSL-4-0-1	'0-0.5	9/21/2001					0.220 U		
BSL-4-4-6	'4-6	9/21/2001					0.350 U		
BSL-5-0-.5	'0-0.5	9/21/2001					0.200 U		
BSL-6-0-1	'0-1	9/26/2001					0.270 U		
BSL-6-1-2	'1-2	9/26/2001					0.320 U		
BSL-7-0-.5	'0-0.5	9/21/2001					0.240 U		
BSL-8-0-1	'0-1	9/26/2001					0.300 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
BSL-9-.5-2	'0.5-2	9/21/2001					0.270 U		
BSL-9-0-.5	'0-0.5	9/21/2001					0.210 U		
BT-B1-0-0.5	'0-0.5	9/18/2001					0.200 U		
BT-B2-0.5-2	'0.5-2	9/18/2001					0.200 U		
BT-B2-0-0.5	'0-0.5	9/18/2001					0.220 U		
BT-B3-0-0.5	'0-0.5	9/18/2001					0.960 U		
BT-B4-0.5-2	'0.5-2	8/30/2001					0.190 U		
BT-B4-0-0.5	'0-0.5	8/30/2001					0.840 U		
BT-B5-0-.5	'0-0.5	10/2/2001					0.200 U		
BT-B6-0.5-2	'0.5-2	9/17/2001					0.220 U		
BT-B6-0-0.5	'0-0.5	9/17/2001					0.860 U		
CF-1-0-0.5	'0-0.5	8/31/2001					0.180 U		
CF-1-2-4	'2-4	8/31/2001					0.190 U		
CF-2-0-0.5	'0-0.5	8/28/2001					0.210 U		
CF-3-0.5-2	'0.5-2	8/28/2001					0.330 U		
CF-3-0-0.5	'0-0.5	8/28/2001					0.250 U		
CF-4-0-0.5	'0-0.5	8/28/2001					0.220 U		
CF-5-0-0.5	'0-0.5	8/28/2001					0.170 U		
CF-5-4-6	'4-6	8/28/2001					0.190 U		
CF-6-0-0.5	'0-0.5	8/28/2001					0.190 U		
CF-7-0-0.5	'0-0.5	8/28/2001					0.190 U		
CF-7-4-6	'4-6	8/28/2001					0.180 U		
CF-8-0-0.5	'0-0.5	8/28/2001					0.190 U		
CF-9-0.5-2	'0.5-2	8/31/2001					0.180 U		
CF-9-0-0.5	'0-0.5	8/31/2001					0.180 U		
DC-B12-0-0.5	'0-0.5	10/3/2001					0.190 U		
DC-B12-2-4	'2-4	10/3/2001					0.180 U		
DC-SS1-0-0.5	'0-0.5	9/18/2001					0.180 U		
DC-SS11-0-0.5	'0-0.5	9/17/2001					0.920 U		
DC-SS13-0-0.5	'0-0.5	9/17/2001					0.860 U		
DC-SS15-0-0.5	'0-0.5	9/17/2001					1.00 U		
DC-SS17-0-0.5	'0-0.5	9/17/2001					0.210 U		
DC-SS2-0-0.5	'0-0.5	9/17/2001					0.180 U		
DC-SS3-0-0.5	'0-0.5	9/17/2001					0.220 U		
DC-SS6-0-0.5	'0-0.5	9/17/2001					0.190 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
DC-SS7-0-0.5	'0-0.5	9/17/2001					0.190 U		
DC-SS9-0-0.5	'0-0.5	9/17/2001					0.190 U		
DSP-1-0-0.5	'0-0.5	10/3/2001					0.200 U		
DSP-1-4-6	'4-6	11/19/2001					0.210 U		
DSP-2-0-0.5	'0-0.5	9/4/2001					0.180 U		
DSP-3-0-0.5	'0-0.5	9/4/2001					0.940 U		
DSP-3-2-4	'2-4	9/4/2001					0.210 U		
DSP-4-0-0.5	'0-0.5	9/4/2001					0.210 U		
DSP-4-4-6	'4-6	9/26/2001					0.246		
DUP-01-010824	'0-0.5	8/24/2001					0.190 U		
DUP-01-010831	'2-4	8/31/2001					0.190 U		
DUP-01-010904	'0-0.5	9/4/2001					0.920 U		
DUP-01-010905	'8-10	9/5/2001				1.10 JN	0.210 U		
DUP-01-010906	'0-8	9/6/2001					0.760 U		
DUP-01-010913	'0-0.5	9/13/2001					0.960 U		
DUP-01-010917	'0-0.5	9/17/2001					0.190 U		
DUP-01-010926	'1-2	9/26/2001					0.320 U		
DUP-01-010927	'4-6	9/27/2001					0.180 U		
DUP-01-021001	'0-0	10/2/2001					0.190 U		
DUP-01-08 2201	'1.5-2	8/22/2001					0.200 U		
DUP-01-121001	'0-0	10/12/2001					0.190 U		
DUP-01-170402	'0-0	4/17/2002					0.957		
DUP-02-010913	'0-0.5	9/13/2001					1.10 U		
DUP-02-010921	'0-1	9/21/2001					0.230 U		
DUP-02-010926	'4-6	9/26/2001	0.660 JN				0.220 U		
DUP060807	'0-0	6/8/2007					0.0430 U		
DUP-1-010828	'0-0.5	8/28/2001					0.190 U		
DUP-1-010921	'0-0.5	9/21/2001					0.260 U		
DUP110606	'15-17	11/6/2006					0.0520 U		
DUP112006	'16-18	11/20/2006					0.0810 U		
DUP112106	'10-12	11/21/2006					0.0850 U		
DUP-120506	'0-4	12/5/2006					0.130 U		
DUP-120606	'0-4	12/6/2006					0.0430 U		
DUPE071801	'0-0.5	7/18/2001					0.180 U		
EC-1	'0-1	8/21/2001					0.190 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
EC-2	'0-1	8/21/2001					0.190 U		
EC-3	'0-1	8/21/2001					0.180 U		
EC-4	'0-1	8/21/2001					0.180 U		
EC-5	'0-1	8/21/2001					0.180 U		
EC-6	'0-1	8/21/2001					0.210 U		
EC-7	'0-1	8/21/2001					0.200 U		
EC-8	'0-1	8/21/2001					0.180 U		
EC-9	'0-1	8/21/2001					0.220 U	0.230 JN	
ESR-1-0-1	'0-0.5	9/4/2001					0.180 U		
ESR-1-4-6	'4-6	9/4/2001					0.210 U		
HB-101A	'17-17	3/5/2007					1.65		
HB-102A	'0-0	3/13/2007					0.0740 U		
HB-102B	'0-0	3/14/2007					0.0510 U		
HB-102C	'0-0	3/14/2007					0.0470 U		
H-B-103A	'17-17	2/20/2007					0.0660 U		
H-B-104A	'17-17	2/23/2007					0.0510 U		
H-B-104B	'17-17	2/23/2007					0.0480 U		
H-B-104C	'17-17	2/23/2007					0.0520 U		
H-B-104D	'17-17	2/27/2007					0.0480 U		
H-B-104E	'17-17	2/27/2007					0.0490 U		
H-B-105C	'17-17	2/8/2007					0.0470 U		
H-B-105D	'17-17	2/8/2007					0.0510 U		
H-B-105E	'0-0	2/8/2007					0.0500 U		
HB-1A	'6.75-6.75	4/18/2002					4.71		
HB-3A	'5.25-5.25	4/17/2002					1.35		
HB-3B	'4.5-4.5	4/17/2002					0.200 U		
HB-3C	'4.5-4.5	4/18/2002					0.190 U		
HB-3D	'4.5-4.5	4/18/2002					0.200 U		
HB-4A	'5.33-5.33	4/19/2002					0.200 U		
HB-5A	'3-3	4/22/2002					0.210 U		
HB-7A	'5-5	4/19/2002					0.210 U		
HB-8A	'3-3	4/23/2002					0.101 J		
HB-8B	'4.83-4.83	4/23/2002					0.200 U		
HB-8C	'5.5-5.5	4/23/2002					0.200 U		
HB-9A	'4.75-4.75	4/24/2002					0.210 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
HF-B1-0-0.5	'0-0.5	9/10/2001					0.200 U		
HF-B1-8-10	'8-10	9/10/2001					0.230 U		
HF-B2-0-0.5	'0-0.5	9/4/2001					0.180 U		
HF-B2-4-6	'4-6	9/4/2001					0.180 U		
HF-B3-0-.5	'0-0.5	10/2/2001					0.190 U		
HF-B3-8-10	'8-10	10/2/2001					0.190 U		
IB-1-0-2	'0-2	4/8/2002					0.190 U		
IB-1-4-6	'4-6	4/8/2002					0.190 U		
IB-2-12-14	'12-14	4/8/2002					0.210 U		
IB-2-4-6	'4-6	4/8/2002					0.190 U		
IB-3-4-6	'4-6	4/8/2002					0.210 U		
IB-3-8-10	'8-10	4/8/2002					0.220 U		
LB-101-0-1	'0-1	12/6/2006					0.0440 U		
LB-101-1-3	'1-3	12/6/2006					0.0420 U		
LB-102-0-1	'0-3	12/6/2006					0.0460 U		
LB-102-1-3	'3-7	12/6/2006					0.0460 U		
LB-103-0-1	'0-1	12/6/2006					0.0440 U		
LB-103-5-7	'5-7	12/6/2006					0.0510 U		
LHP-101-0-1	'0-1	12/4/2006					0.230 U		
LHP-101-5-8	'4-8	12/4/2006					1.05		
LHP-102-0-1	'0-1	12/5/2006					0.0460 U		
LHP-102-7-9	'7-9	12/5/2006					0.687		
LHP-103-0-1	'0-1	12/5/2006					0.230 U		
LHP-103-1-3	'1-3	12/5/2006					0.0500 U		
LHP-104-0-1	'0-1	12/5/2006					0.0430 U		
LHP-104-7-9	'4-8	12/5/2006					0.329		
LHP-105-0-1	'0-1	12/5/2006					0.220 U		
LHP-105-1-3	'1-3	12/5/2006					0.0430 U		
LHP-106-0-1	'0-1	12/4/2006					0.210 U		
LHP-106-1-3	'1-3	12/4/2006					0.260 U		
LHP-107-0-1	'0-1	12/5/2006					0.0440 U		
LHP-107-5-7	'4-8	12/5/2006					0.0470 U		
LHP-108-0-1	'0-1	12/6/2006					0.0460 U		
LHP-108-3-7	'3-7	12/6/2006					0.0500 U		
LHP-109-0-1	'0-1	12/6/2006					0.0470 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
LHP-109-7-9	'7-9	12/6/2006					0.0570 U		
LHP-110-0-1	'0-1	12/4/2006					0.470 U		
LHP-111-0-1	'0-1	12/4/2006					0.0460 U		
LHP-112-0-1	'0-1	12/4/2006					0.0470 U		
LHP-113-0-1	'0-1	12/4/2006					0.0440 U		
LHP-114-0-1	'0-1	12/4/2006					0.0450 U		
LHP-115-0-1	'0-1	12/4/2006					0.0430 U		
LHP-116-0-1	'0-1	12/4/2006					0.0460 U		
LHP-117-0-1	'0-1	12/4/2006					0.0480 U		
LHP-118-0-1	'0-1	12/4/2006					0.240 U		
LHP-119-0-1	'0-1	12/4/2006					0.0480 U		
LHP-120-0-1	'0-1	12/4/2006					0.0530 U		
LHP-121-0-1	'0-1	12/6/2006					0.0470 U		
LHP-122-0-1	'0-1	12/6/2006					0.0440 U		
LHP-123-0-1	'0-1	12/4/2006					0.0470 U		
LHP-124-.5-2	'0.5-2	10/27/2006					0.0480 U		
LHP-124-10-12	'10-12	10/31/2006					0.0770 U		
LHP-124-2-4	'2-4	10/27/2006					0.0480 U		
LHP-124-28-30	'28-30	10/31/2006					0.0570 U		
LHP-125-.5-2	'0.5-2	10/27/2006					0.0470 U		
LHP-125-10.5-12	'10.5-12	11/1/2006					0.0530 U		
LHP-125-12-14	'12-14	11/1/2006					0.0480 U		
LHP-125-4-6	'4-6	10/27/2006					0.0460 U		
LHP-126-10.5-12	'10.5-12	11/1/2006					0.200 UJ		
LHP-126-14-16	'14-16	11/1/2006					0.0490 U		
LHP-126-2-4	'2-4	10/26/2006					0.0460 U		
LHP-126-8-10	'9-10	10/26/2006					0.0510 U		
LHP-127-0-1	'0-1	12/6/2006					0.0440 U		
LHP-127-3-5	'3-5	12/6/2006					0.0440 U		
LHP-128-0-1	'0-4	12/6/2006					0.0430 U		
LHP-128-7-8	'17-17	12/6/2006					0.391		
LP-1-0-0.5	'0-0.5	8/27/2001					0.190 U		
LP-10-0.5-2	'0.5-2	8/27/2001					0.210 U		
LP-10-0-0.5	'0-0.5	8/27/2001					0.190 U		0.240 JN
LP-101-11-13	'11-13	11/2/2006					0.0770 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
LP-101-14-16	'14-16	11/2/2006					0.0670 U		
LP-101-26-28	'26-28	11/2/2006					0.0480 U		
LP-101-50-52	'50-52	11/2/2006					0.0470 U		
LP-11-0-0.5	'0-0.5	8/27/2001					0.210 U		
LP-12-0-0.5	'0-0.5	8/27/2001					0.180 U		
LP-12-4-6	'4-6	8/27/2001					0.180 U		
LP-13-0-0.5	'0-0.5	8/24/2001					0.210 U		
LP-14-0.5-2	'0.5-2	8/24/2001					0.180 U		
LP-14-0-0.5	'0-0.5	8/24/2001					0.920 U		
LP-15-0-0.5	'0-0.5	8/24/2001					0.190 U		
LP-16-0.5-2	'0.5-2	8/27/2001					0.910 U		
LP-16-0-0.5	'0-0.5	8/27/2001					0.190 U		
LP-2-0.5-2	'0.5-2	8/28/2001				0.420 JN	0.190 U		
LP-2-0-0.5	'0-0.5	8/28/2001					0.190 U		
LP-3-0-0.5	'0-0.5	8/27/2001					0.180 U		
LP-4 .5-2	'0.5-2	8/21/2001					0.180 U		
LP-4 0-.5	'0-0.5	8/21/2001					0.200 U		
LP-5-0-0.5	'0-0.5	8/27/2001					0.190 U		
LP-6-0-0.5	'0-0.5	8/27/2001					0.180 U		
LP-6-4-6	'4-6	8/27/2001					0.180 U		
LP-7-0-0.5	'0-0.5	8/24/2001					0.200 U		
LP-8-0-0.5	'0-0.5	8/24/2001					0.200 U		
LP-8-10-12	'10-12	8/24/2001					0.280 U		
LP-9-0-0.5	'0-0.5	8/24/2001					0.920 U		
MW-11D-12-14	'12-14	12/14/2006					0.0730 U		
MW-11D-14-16	'14-16	12/14/2006					0.0490 U		
MW-11D-16-18	'16-18	12/14/2006					0.0490 U		
MW-14D-13-15	'13-15	11/14/2006					0.0530 U		
MW-14D-17-19	'17-19	11/14/2006					0.0490 U		
MW-16D-13-15	'13-15	11/17/2006					0.357		
MW-16D-17-19	'17-19	11/20/2006					0.0480 U		
MW-17D-15-17	'15-17	11/10/2006					0.948		
MW-17D-17-19	'17-19	11/10/2006					0.0480 U		
MW-18D-13-15	'13-15	11/13/2006					0.0520 U		
MW-18D-17-19	'17-19	11/13/2006					0.0470 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
MW-20D-12-14	'12-14	11/9/2006					0.119 J		
MW-20D-32-34	'32-32.9	11/10/2006					0.0470 U		
MW-20D-36-38	'36-38	11/10/2006					0.0480 U		
MW-21D-13-15	'13-13.7	11/16/2006					0.0510 U		
MW-21D-15-17	'15-17	11/16/2006					0.0490 U		
MW-23D-15-17	'15-16	11/15/2006					4.40		
MW-23D-37-39	'37-37.9	11/15/2006					0.0470 U		
MW-25D-10-12	'10-12	11/21/2006					0.0870 U		
MW-25D-33-35	'33-35	12/18/2006					0.0520 U		
MW-26S-8-10	'8-10	10/26/2006					0.0540 U		
MW-6D-0-2	'0-2	11/8/2006					0.0470 U		
MW-6D-12-14	'12-14	11/8/2006					1.77		
MW-6D-16-18	'16-18	11/20/2006					0.0760 U		
MW-6D-30-32	'30-32	11/21/2006					0.0490 U		
PCA-1-0-.5	'0-2	7/17/2001					0.900 U		
PCA-1-4-6	'4-6	7/17/2001					0.200 U		
PCA-2-0-.5	'0-0.5	7/17/2001					0.180 U		
PCA-3-0-0.5	'0-0.5	9/13/2001					0.390 U		
PCA-3-4-6	'4-6	9/13/2001					0.210 U		
PCA-4-0-0.5	'0-0.5	9/13/2001					0.950 U		
PCA-4-4-6	'4-6	9/26/2001					0.210 U		
PCA-5-0.5-2	'0.5-2	9/7/2001					0.190 U		
PCA-5-0-0.5	'0-0.5	9/7/2001					0.210 U		
PCA-6-0-0.5	'0-0.5	9/7/2001					0.180 U		
RR-1 0-0.5	'0-0.5	8/22/2001					0.180 U		
RR-1 14-16	'14-16	8/22/2001					0.200 U		
RR-10 0-.5	'0-0.5	10/12/2001					0.180 U		
RR-11 0-.5	'0-0.5	10/12/2001					0.200 U		
RR-12 0-.5	'0-0.5	10/12/2001					0.200 U		
RR-2-0-0.5	'0-0.5	9/13/2001					1.00 U		
RR-2-8-10	'8-10	9/13/2001					0.250 U		
RR-3-0-0.5	'0-0.5	9/13/2001					0.180 U		
RR-4-0-0.5	'0-0.5	9/10/2001					0.200 U		
RR-4-6-8	'6-8	9/13/2001					0.190 U		
RR-5-0-0.5	'0-0.5	9/10/2001					0.170 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
RR-6-0-0.5	'0-0.5	9/10/2001					0.180 U		
RR-6-8-10	'8-10	9/10/2001					0.190 U		
RR-7-0-0.5	'0-0.5	9/10/2001					0.190 U		
RR-8-0-0.5	'0-0.5	9/26/2001					0.220 U		
RR-8-6-8	'6-8	9/26/2001					0.340 U		
RR-9 0-.5	'0-0.5	10/12/2001					0.180 U		
SC-1	'0-1	8/21/2001					0.220 U		
SC-2	'0-1	8/22/2001					0.170 U		
SC-3	'0-1	8/22/2001					0.200 U		
SILO-B1-0-0.5	'0-0.5	9/6/2001					0.190 U		
SILO-B1-6-8	'6-8	9/6/2001					0.740 U		
SILO-B2-0-0.5	'0-0.5	9/6/2001					0.900 U		
SILO-B3-0-0.5	'0-0.5	9/6/2001					1.00 U		
SILO-B3-6-8	'6-8	9/6/2001					0.180 U		
SILO-B4-0-0.5	'0-0.5	9/6/2001					1.00 U		
SPR-1-0-0.5	'0-0.5	9/5/2001					0.960 U		
SPR-1-8-10	'8-10	9/5/2001					0.260 U		
SPR-2A-0-0.5	'0-0.5	7/19/2001					0.190 U		
SPR-2A-8-10	'8-10	7/19/2001					0.220 U		
SPR-2B-0-0.5	'0-0.5	7/19/2001					0.180 U		
SPR-2B-10-12	'10-12	7/19/2001					0.250 U		
SPR-3 0-.5	'0-0.5	8/21/2001					0.180 U		
SPR-3 4-6	'4-6	8/21/2001					0.210 U		
SPR-4A-0-0.5	'0-0.5	7/19/2001					0.200 U		
SPR-4A-8-10	'8-10	7/19/2001					0.280 U		
SPR-4B-0-0.5	'0-0.5	8/22/2001					0.200 U		
SPR-4B-4-6	'4-6	8/23/2001					0.200 U		
SPR-4C-0-0.5	'0-0.5	8/23/2001					0.920 U		
SPR-4C-4-6	'4-6	8/23/2001					0.220 U		
SPR-5-0-0.5	'0-0.5	9/5/2001					5.20 U		
SPR-5-2-4	'2-4	9/5/2001					0.220 U		
SPR-6-0.5-2	'0.5-2	9/13/2001					0.190 U		0.330 JN
SPR-6-0-0.5	'0-0.5	9/13/2001					0.170 U		
SR-1-0-.5	'0-0.5	7/17/2001					0.180 U		
SR-2-0-.5	'0-0.5	7/17/2001					0.170 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
ST-1-0-0.5	'0-0.5	9/5/2001					1.00 U		
ST-2-0-0.5	'0-0.5	9/5/2001					1.00 U		
ST-3-0-0.5	'0-0.5	9/4/2001					0.200 U		
ST-3-4-6	'4-6	9/4/2001					0.260 U		
TES-1-0-1	'0-1	12/5/2006					0.240 U		
TES-2-0-1	'0-1	12/4/2006					0.510 U		
TES-3-0-1	'0-1	12/4/2006					0.250 U		
TES-4-0-1	'0-1	12/5/2006					0.0460 U		
TLN-1 .5-2	'0.5-2	8/20/2001					0.210 U		
TLN-1 0-.5	'0-0.5	8/20/2001					0.210 U		
TLN-2-0-0.5	'0-0.5	7/19/2001					0.180 U		
TLN-3-0-.5	'0-0.5	7/17/2001					0.860 U		
TLN-3-2-4	'2-4	7/17/2001					0.190 U		
TLN-4 0-.5	'0-0.5	8/20/2001					0.170 U		
TLN-4 0-.5 DUP	'0-0.5	8/20/2001					0.180 U		
TLN-5 .5-2	'0.5-2	8/20/2001					0.180 U		
TLN-5 0-.5	'0-0.5	8/20/2001					0.180 U		
TLN-5-4-6	'4-6	8/30/2001					0.180 U		
TLN-6 0-.5	'0-0.5	8/20/2001					0.180 U		
TLS-10 0-.5	'0-0.5	8/21/2001					0.190 U		
TLS-10 8-10	'8-10	8/21/2001					0.240 U		
TLS-1-0-0.5	'0-0.5	9/5/2001					0.970 U		
TLS-11-0-0.5	'0-0.5	9/7/2001					0.190 U		
TLS-2-0-0.5	'0-0.5	9/7/2001					0.940 U		
TLS-2-6-8	'6-8	9/7/2001					0.290 U		
TLS-3 0-.5	'0-0.5	8/21/2001					0.180 U		
TLS-4-0-0.5	'0-0.5	9/7/2001					0.180 U		
TLS-4-8-10	'8-10	9/7/2001					0.569		
TLS-5 0-0.5	'0-0.5	8/21/2001					0.180 U		
TLS-5-8-10	'8-10	9/26/2001					0.260 U		
TLS-6 0-.5	'0-0.5	8/21/2001		0.910 JN			0.220 U		
TLS-6-3-5	'3-5	9/26/2001					22.0 U		
TLS-7 0-.5	'0-0.5	8/21/2001					0.250 U		
TLS-8-0-0.5	'0-0.5	9/7/2001					0.190 U		
TLS-8-6-8	'6-8	9/7/2001					0.220 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phenol, 4-(1,1,3,3-Tetramethylbutyl)- mg/kg	Phenol, 4,6-Di(1,1-Dimethylethyl)- mg/kg	Phenol, 4-Ethyl-2-Methoxy- mg/kg	Phenol, Nonyl- mg/kg	Phenol mg/kg	Phosphoric Acid, Tris(2-Ethylhexyl) Este mg/kg	Phosphoric Acid, Tris(3-Methylphen mg/kg
TLS-9 0-.5	'0-0.5	8/21/2001					0.910 U		
TP-105	'0-0	6/8/2007					0.0410 U		
TP-105A	'0-0	6/8/2007					0.0410 U		
TP-106-A	'0-0	6/8/2007					0.0420 U		
TP-106-B	'0-0	6/8/2007					0.0410 U		
WWT-1-0-0.5	'0-0.5	7/19/2001					0.980 U		
WWT-101-15-17	'15-17	11/6/2006					0.0520 U		
WWT-101-21-23	'21-23	11/6/2006					0.0490 U		
WWT-1-12-14	'12-14	8/23/2001					13.0 U		
WWT-2-0-0.5	'0-0.5	8/23/2001					0.180 U		
WWT-2-12-14	'12-14	8/23/2001					0.630 U		
WWT-3-0-0.5	'0-0.5	8/23/2001					0.900 U		
WWT-3-12-14	'12-14	8/23/2001					0.390 U		

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
SRS					18000			230				
12K-B1-0.5-2	'0.5-2	9/6/2001			0.0850 U							
12K-B1-0-0.5	'0-0.5	9/6/2001			0.183							
12K-B2-0.5-2	'0.5-2	9/6/2001			0.0790 U							
12K-B2-0-0.5	'0-0.5	9/6/2001			0.0727 J							
150K-1-0.5-2	'0.5-2	9/10/2001			0.303							
150K-1-0-0.5	'0-0.5	9/10/2001			1.16							
230-B1-0.5	'0-0.5	10/2/2001			2.00							
230-B10-0-0.5	'0-0.5	8/30/2001			0.549							
230-B10-1.5-2	'1.5-2	8/30/2001			1.17							
230-B11-0-0.5	'0-0.5	8/30/2001			0.150							
230-B11-1.5-2	'1.5-2	8/30/2001			0.757							
230-B1-4-6	'4-6	10/2/2001			0.390 U							
230-B2-0-0.5	'0-0.5	8/30/2001			0.0435 J							
230-B2-1.5-2	'1.5-2	8/30/2001			0.214							
230-B3-0-0.5	'0-0.5	8/30/2001			0.0760 U							
230-B3-1.5-2	'1.5-2	8/30/2001			0.882							
230-B4-0-0.5	'0-0.5	8/30/2001			0.183							
230-B4-1.5-2	'1.5-2	8/30/2001			0.877							
230-B5-0-0.5	'0-0.5	9/13/2001			0.368							
230-B5-1.5-2	'1.5-2	9/13/2001			0.470							
230-B6 0-0.5	'0-0.5	8/22/2001			0.148	0.430 JN						
230-B6 1.5-2	'1.5-2	8/22/2001			0.0320 J							
230-B7 0-0.5	'0-0.5	8/22/2001			0.0689 J		1.30 JN					
230-B7 1.5-2	'1.5-2	8/22/2001			0.0626 J							
230-B8 1.5-2	'1.5-2	8/22/2001			0.271							
230-B9 0-0.5	'0-0.5	8/22/2001			0.235							
230-B9 0-0.5	'0-0.5	8/22/2001			0.0316 J							
230-B9 1.5-2	'1.5-2	8/22/2001			0.0750 U							
231-B1-0-0.5	'0-0.5	10/5/2001			0.0750 U							
231-B10-0-0.5	'0-0.5	9/17/2001			0.0830 U							
231-B11-0-0.5	'0-0.5	9/19/2001			0.0606 J							
231-B11-8-10	'8-10	9/19/2001			0.0551 J							
231-B12-0-0.5	'0-0.5	9/17/2001			0.0402 J							
231-B13-0-0.5	'0-0.5	9/19/2001			0.390 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
231-B13-8-10	'9-10	9/27/2001			0.0662 J							
231-B14-0-0.5	'0-0.5	9/19/2001			0.0341 J							
231-B2-0.5-2	'0.5-2	8/22/2001			0.528							
231-B2-0-0.5	'0-0.5	8/22/2001			0.0587 J							
231-B3-0-0.5	'0-0.5	8/22/2001			0.0986							
231-B4-0-0.5	'0-0.5	8/30/2001			0.0194 J							
231-B4-6-8	'6-8	9/27/2001			0.0443 J				0.350 JN			
231-B5-0.5-2	'0.5-2	9/19/2001			0.616							
231-B6-0-0.5	'0-0.5	9/27/2001			0.116							
231-B6-4-6	'4-6	9/27/2001			0.137							
231-B7-0-0.5	'0-0.5	9/13/2001			0.372 J							
231-B8-0-0.5	'0-0.5	9/27/2001			0.574 J							
231-B8-8-10	'8-10	9/27/2001			4.55 J							
231-B9-0.5-2	'0.5-2	9/27/2001			0.212							
231-B9-0-0.5	'0-0.5	9/27/2001			0.483							
240-1-0-0.5	'0-0.5	9/26/2001			0.493							
240-1-8-10	'8-10	10/1/2001			0.0810 U							
5K-B1-0-0.5	'0-0.5	10/1/2001			0.177 J							
5K-B2-0-0.5	'0-0.5	8/31/2001			0.0710 U							
5K-B2-8-10	'8-10	8/31/2001			0.386							
5K-B3-0-0.5	'0-0.5	9/26/2001			0.114							
5K-B4-0-0.5	'0-0.5	10/1/2001			0.460 U							
5K-B4-4-6	'4-6	10/1/2001			0.940							
5K-B5-0-0.5	'0-0.5	8/31/2001			2.30							
5K-B5-4-6	'4-6	9/26/2001			0.794							
AB-1-0-0.5	'0-0.5	9/4/2001			0.384							
AB-2-0.5-2	'0.5-2	9/4/2001			0.261							
AB-2-0-0.5	'0-0.5	9/4/2001			0.122							
ADN-1-0-0.5	'0-0.5	9/5/2001			0.884							
ADN-1-8-10	'8-10	9/5/2001			1.34							
ADN-2-0-0.5	'0-0.5	9/5/2001			0.0328 J							
ADN-2-10-11	'10-11	9/27/2001			0.0800 U							
ADS-1-0-.5	'0-0.5	7/17/2001			0.455							
ADS-10-0-0.5	'0-2	7/18/2001			0.591							
ADS-101-0-1	'0-1	12/5/2006			0.0439 J				0.780 JN			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
ADS-101-1-3	'1-3	12/5/2006			0.0130 U							
ADS-102-0-1.5	'0-2	12/5/2006			0.0934				0.450 J			
ADS-102-7-8	'4-8	12/5/2006			0.0140 U							
ADS-10-4-6	'4-6	7/18/2001			0.0578 J							
ADS-11-0-0.5	'0-2	7/18/2001		0.450 JN	1.80							
ADS-12-0.5-2	'0.5-2	7/18/2001			0.0751 J							
ADS-12-0-0.5	'0-0.5	7/18/2001			0.0848 J							
ADS-2-0-0.5	'0-0.5	7/18/2001			0.0800 U							
ADS-2-4-6	'4-6	7/18/2001			0.0810 U							
ADS-3-0-0.5	'0-0.5	7/18/2001			0.156							
ADS-4-0-0.5	'0-2	7/18/2001			0.733							
ADS-4-12-14	'12-14	7/18/2001			1.08							
ADS-5-0-0.5	'0-0.5	7/18/2001			0.360 UJ							
ADS-5-4-6	'4-6	9/27/2001			0.0264 J							
ADS-6-0.5-2	'0.5-2	7/18/2001			0.663							
ADS-6-0-0.5	'0-0.5	7/18/2001			0.360 J							
ADS-7-0-.5	'0-0.5	7/17/2001			0.892							
ADS-8-0-0.5	'0-0.5	7/18/2001			0.0821							
ADS-8-4-6	'4-6	7/18/2001			0.0687 J							
ADS-9-0-0.5	'0-0.5	7/18/2001			0.136							
BLIND DUP	'0-0	8/21/2001			0.606							
BSL-10-0-1	'0-1	9/21/2001			0.0286 J							
BSL-1-0-1	'0-1	9/20/2001			0.258							
BSL-11-0-1	'0-1	9/26/2001			0.0536 J							
BSL-12-0-1	'0-1	9/26/2001			0.0760 U							
BSL-1-4-6	'4-6	9/20/2001			0.0980 U							
BSL-2-0-1	'0-1	9/21/2001			0.231							
BSL-3-0-0.5	'0-0.5	9/20/2001			0.0710 U							
BSL-4-0-1	'0-0.5	9/21/2001			0.0250 J							
BSL-4-4-6	'4-6	9/21/2001			0.140 U							
BSL-5-0-.5	'0-0.5	9/21/2001			0.0820 U							
BSL-6-0-1	'0-1	9/26/2001			0.243							
BSL-6-1-2	'1-2	9/26/2001			0.0430 J							
BSL-7-0-.5	'0-0.5	9/21/2001			0.0980 U							
BSL-8-0-1	'0-1	9/26/2001			0.0605 J							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
BSL-9-.5-2	'0.5-2	9/21/2001			0.110 U							
BSL-9-0-.5	'0-0.5	9/21/2001			0.0840 U							
BT-B1-0-0.5	'0-0.5	9/18/2001			0.0496 J							
BT-B2-0.5-2	'0.5-2	9/18/2001			0.0443 J							
BT-B2-0-0.5	'0-0.5	9/18/2001			0.0860 U							
BT-B3-0-0.5	'0-0.5	9/18/2001			0.108 J							
BT-B4-0.5-2	'0.5-2	8/30/2001			0.284							
BT-B4-0-0.5	'0-0.5	8/30/2001			0.0883 J							
BT-B5-0-.5	'0-0.5	10/2/2001			0.296							
BT-B6-0.5-2	'0.5-2	9/17/2001			0.283							
BT-B6-0-0.5	'0-0.5	9/17/2001			0.340 U							
CF-1-0-0.5	'0-0.5	8/31/2001			0.0382 J							
CF-1-2-4	'2-4	8/31/2001			0.540							
CF-2-0-0.5	'0-0.5	8/28/2001			0.167					0.620 JN		
CF-3-0.5-2	'0.5-2	8/28/2001			0.130 U							
CF-3-0-0.5	'0-0.5	8/28/2001			0.329							
CF-4-0-0.5	'0-0.5	8/28/2001			0.426							
CF-5-0-0.5	'0-0.5	8/28/2001			0.0700 U							
CF-5-4-6	'4-6	8/28/2001			0.137							
CF-6-0-0.5	'0-0.5	8/28/2001			0.168							
CF-7-0-0.5	'0-0.5	8/28/2001			0.157							
CF-7-4-6	'4-6	8/28/2001			0.545							
CF-8-0-0.5	'0-0.5	8/28/2001			0.514							
CF-9-0.5-2	'0.5-2	8/31/2001			0.0353 J							
CF-9-0-0.5	'0-0.5	8/31/2001			0.0673 J							
DC-B12-0-0.5	'0-0.5	10/3/2001			0.251							
DC-B12-2-4	'2-4	10/3/2001			0.342							
DC-SS1-0-0.5	'0-0.5	9/18/2001			0.758							
DC-SS11-0-0.5	'0-0.5	9/17/2001			21.8							
DC-SS13-0-0.5	'0-0.5	9/17/2001			0.202 J							
DC-SS15-0-0.5	'0-0.5	9/17/2001	0.970 JN		6.36							
DC-SS17-0-0.5	'0-0.5	9/17/2001	1.60 JN		10.5							
DC-SS2-0-0.5	'0-0.5	9/17/2001			0.0527 J							
DC-SS3-0-0.5	'0-0.5	9/17/2001			0.0756 J							
DC-SS6-0-0.5	'0-0.5	9/17/2001			0.102							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
DC-SS7-0-0.5	'0-0.5	9/17/2001	0.160 JN		0.0542 J							
DC-SS9-0-0.5	'0-0.5	9/17/2001			0.425							
DSP-1-0-0.5	'0-0.5	10/3/2001			0.0579 J							
DSP-1-4-6	'4-6	11/19/2001			0.0820 U				6.50 JN			
DSP-2-0-0.5	'0-0.5	9/4/2001			0.127							
DSP-3-0-0.5	'0-0.5	9/4/2001			0.183 J							
DSP-3-2-4	'2-4	9/4/2001			0.0830 U							
DSP-4-0-0.5	'0-0.5	9/4/2001			0.0619 J							
DSP-4-4-6	'4-6	9/26/2001			0.0365 J				13.0 JN			
DUP-01-010824	'0-0.5	8/24/2001			0.527						0.620 JN	
DUP-01-010831	'2-4	8/31/2001			0.409							
DUP-01-010904	'0-0.5	9/4/2001			0.226 J							
DUP-01-010905	'8-10	9/5/2001			3.02							
DUP-01-010906	'0-8	9/6/2001			106.							
DUP-01-010913	'0-0.5	9/13/2001			0.0789 J							
DUP-01-010917	'0-0.5	9/17/2001			0.375							
DUP-01-010926	'1-2	9/26/2001			0.259							
DUP-01-010927	'4-6	9/27/2001			0.0740 U							
DUP-01-021001	'0-0	10/2/2001			0.588							
DUP-01-08 2201	'1.5-2	8/22/2001			0.102							
DUP-01-121001	'0-0	10/12/2001			0.265							
DUP-01-170402	'0-0	4/17/2002			1.39							
DUP-02-010913	'0-0.5	9/13/2001			0.383 J							
DUP-02-010921	'0-1	9/21/2001			0.0910 U							
DUP-02-010926	'4-6	9/26/2001			0.377							
DUP060807	'0-0	6/8/2007			0.0338 J							
DUP-1-010828	'0-0.5	8/28/2001			0.115							
DUP-1-010921	'0-0.5	9/21/2001			0.100 U							
DUP110606	'15-17	11/6/2006			0.0150 U				1.20 JN			
DUP112006	'16-18	11/20/2006			0.0230 U							
DUP112106	'10-12	11/21/2006			0.0240 U				0.610 JN			
DUP-120506	'0-4	12/5/2006		2.30 JN	0.135 J							
DUP-120606	'0-4	12/6/2006			1.48							
DUPE071801	'0-0.5	7/18/2001			0.0383 J							
EC-1	'0-1	8/21/2001			0.0647 J							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
EC-2	'0-1	8/21/2001			0.570							
EC-3	'0-1	8/21/2001			0.259							
EC-4	'0-1	8/21/2001			0.255							
EC-5	'0-1	8/21/2001			0.0235 J							
EC-6	'0-1	8/21/2001			0.0215 J							
EC-7	'0-1	8/21/2001			0.270							
EC-8	'0-1	8/21/2001			0.371							
EC-9	'0-1	8/21/2001			1.23							
ESR-1-0-1	'0-0.5	9/4/2001			0.0710 U							
ESR-1-4-6	'4-6	9/4/2001			0.0586 J							
HB-101A	'17-17	3/5/2007			0.0617 J				0.410 JN			
HB-102A	'0-0	3/13/2007			0.0210 U							
HB-102B	'0-0	3/14/2007			0.148				0.330 JN			
HB-102C	'0-0	3/14/2007			0.0151 J				0.290 JN			
H-B-103A	'17-17	2/20/2007			0.462							
H-B-104A	'17-17	2/23/2007			0.0140 U							
H-B-104B	'17-17	2/23/2007			0.0130 U							
H-B-104C	'17-17	2/23/2007			6.40							
H-B-104D	'17-17	2/27/2007			0.0307 J							
H-B-104E	'17-17	2/27/2007			0.440							
H-B-105C	'17-17	2/8/2007			0.0557 J							
H-B-105D	'17-17	2/8/2007			0.0190 J							
H-B-105E	'0-0	2/8/2007			0.0140 U				0.650 JN			
HB-1A	'6.75-6.75	4/18/2002			0.392				0.570 JN			
HB-3A	'5.25-5.25	4/17/2002			2.22							
HB-3B	'4.5-4.5	4/17/2002			0.0780 U							
HB-3C	'4.5-4.5	4/18/2002			0.0261 J							
HB-3D	'4.5-4.5	4/18/2002			0.0800 U							
HB-4A	'5.33-5.33	4/19/2002			0.183							
HB-5A	'3-3	4/22/2002			2.50							
HB-7A	'5-5	4/19/2002			0.464							
HB-8A	'3-3	4/23/2002			0.198							
HB-8B	'4.83-4.83	4/23/2002			0.158							
HB-8C	'5.5-5.5	4/23/2002			0.478							
HB-9A	'4.75-4.75	4/24/2002			6.09							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
HF-B1-0-0.5	'0-0.5	9/10/2001			0.957							
HF-B1-8-10	'8-10	9/10/2001			1.59							
HF-B2-0-0.5	'0-0.5	9/4/2001			0.280							
HF-B2-4-6	'4-6	9/4/2001			1.04							
HF-B3-0-.5	'0-0.5	10/2/2001			5.75							
HF-B3-8-10	'8-10	10/2/2001			0.439							
IB-1-0-2	'0-2	4/8/2002			0.541							
IB-1-4-6	'4-6	4/8/2002			0.521							
IB-2-12-14	'12-14	4/8/2002			21.4							
IB-2-4-6	'4-6	4/8/2002			2.63							
IB-3-4-6	'4-6	4/8/2002			0.429							
IB-3-8-10	'8-10	4/8/2002			1.25							
LB-101-0-1	'0-1	12/6/2006			0.0120 U							
LB-101-1-3	'1-3	12/6/2006			0.131							
LB-102-0-1	'0-3	12/6/2006			0.0130 U							
LB-102-1-3	'3-7	12/6/2006			0.0130 U							
LB-103-0-1	'0-1	12/6/2006			0.0327 J				0.360 JN			
LB-103-5-7	'5-7	12/6/2006			0.0345 J							
LHP-101-0-1	'0-1	12/4/2006			0.0630 UJ							
LHP-101-5-8	'4-8	12/4/2006			0.0721 J							
LHP-102-0-1	'0-1	12/5/2006			0.0343 J				0.160 J			
LHP-102-7-9	'7-9	12/5/2006			1.07				15.0 JN			
LHP-103-0-1	'0-1	12/5/2006			0.486							
LHP-103-1-3	'1-3	12/5/2006			0.0404 J				1.00 JN			
LHP-104-0-1	'0-1	12/5/2006			0.0204 J							
LHP-104-7-9	'4-8	12/5/2006			0.0411 J				2.00 JN			
LHP-105-0-1	'0-1	12/5/2006			0.177 J							
LHP-105-1-3	'1-3	12/5/2006			0.0533 J				0.240 J			
LHP-106-0-1	'0-1	12/4/2006			0.373 J							
LHP-106-1-3	'1-3	12/4/2006			0.0720 U							
LHP-107-0-1	'0-1	12/5/2006			0.376							
LHP-107-5-7	'4-8	12/5/2006			0.0279 J				2.10 JN			
LHP-108-0-1	'0-1	12/6/2006			3.27 J							
LHP-108-3-7	'3-7	12/6/2006			0.0161 J							
LHP-109-0-1	'0-1	12/6/2006			0.277 J							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
LHP-109-7-9	'7-9	12/6/2006			0.172				5.10 JN			
LHP-110-0-1	'0-1	12/4/2006			2.44 J							
LHP-111-0-1	'0-1	12/4/2006			0.167							
LHP-112-0-1	'0-1	12/4/2006			1.71 J							
LHP-113-0-1	'0-1	12/4/2006			0.149							
LHP-114-0-1	'0-1	12/4/2006			0.0930							
LHP-115-0-1	'0-1	12/4/2006			0.0120 U							
LHP-116-0-1	'0-1	12/4/2006			0.0597 J							
LHP-117-0-1	'0-1	12/4/2006			0.0948							
LHP-118-0-1	'0-1	12/4/2006			0.127 J							
LHP-119-0-1	'0-1	12/4/2006			0.0498 J							
LHP-120-0-1	'0-1	12/4/2006			0.133							
LHP-121-0-1	'0-1	12/6/2006			0.0220 J							
LHP-122-0-1	'0-1	12/6/2006			0.294 J							
LHP-123-0-1	'0-1	12/4/2006			0.549 J							
LHP-124-.5-2	'0.5-2	10/27/2006			1.15							
LHP-124-10-12	'10-12	10/31/2006			0.0210 U							
LHP-124-2-4	'2-4	10/27/2006			0.529							
LHP-124-28-30	'28-30	10/31/2006			0.0160 U							
LHP-125-.5-2	'0.5-2	10/27/2006			1.50							
LHP-125-10.5-12	'10.5-12	11/1/2006			0.0150 U				0.220 JN			
LHP-125-12-14	'12-14	11/1/2006			0.0130 U							
LHP-125-4-6	'4-6	10/27/2006			0.0264 J							
LHP-126-10.5-12	'10.5-12	11/1/2006			0.0550 UJ				1.70 JN			
LHP-126-14-16	'14-16	11/1/2006			0.0140 U							
LHP-126-2-4	'2-4	10/26/2006			0.0985 J							
LHP-126-8-10	'9-10	10/26/2006			0.111 J							
LHP-127-0-1	'0-1	12/6/2006			0.684 J							
LHP-127-3-5	'3-5	12/6/2006			0.0207 J							
LHP-128-0-1	'0-4	12/6/2006			1.59							
LHP-128-7-8	'17-17	12/6/2006			0.0991							
LP-1-0-0.5	'0-0.5	8/27/2001			0.0750 U							
LP-10-0.5-2	'0.5-2	8/27/2001			0.0840 U							
LP-10-0-0.5	'0-0.5	8/27/2001			0.0886							
LP-101-11-13	'11-13	11/2/2006			0.0210 U				0.560 JN			

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
LP-101-14-16	'14-16	11/2/2006			0.0190 U							
LP-101-26-28	'26-28	11/2/2006			0.0130 U							
LP-101-50-52	'50-52	11/2/2006			0.0130 U							
LP-11-0-0.5	'0-0.5	8/27/2001			0.149							
LP-12-0-0.5	'0-0.5	8/27/2001			0.0166 J							
LP-12-4-6	'4-6	8/27/2001			0.0730 U							
LP-13-0-0.5	'0-0.5	8/24/2001			0.219							
LP-14-0.5-2	'0.5-2	8/24/2001			0.220							
LP-14-0-0.5	'0-0.5	8/24/2001			1.30							
LP-15-0-0.5	'0-0.5	8/24/2001			0.121							
LP-16-0.5-2	'0.5-2	8/27/2001			0.360 U							
LP-16-0-0.5	'0-0.5	8/27/2001			0.139							
LP-2-0.5-2	'0.5-2	8/28/2001			0.423							
LP-2-0-0.5	'0-0.5	8/28/2001			0.0674 J							
LP-3-0-0.5	'0-0.5	8/27/2001			0.542							
LP-4 .5-2	'0.5-2	8/21/2001			0.685							
LP-4 0-.5	'0-0.5	8/21/2001			0.105							
LP-5-0-0.5	'0-0.5	8/27/2001			0.124							
LP-6-0-0.5	'0-0.5	8/27/2001			0.0800							
LP-6-4-6	'4-6	8/27/2001			0.0740 U							
LP-7-0-0.5	'0-0.5	8/24/2001			0.859							
LP-8-0-0.5	'0-0.5	8/24/2001			0.158						0.600 JN	
LP-8-10-12	'10-12	8/24/2001			0.110 U				5.10 JN			
LP-9-0-0.5	'0-0.5	8/24/2001			0.280 J							
MW-11D-12-14	'12-14	12/14/2006			0.0200 U							
MW-11D-14-16	'14-16	12/14/2006			0.0140 U				0.390 JN			
MW-11D-16-18	'16-18	12/14/2006			0.0140 U				0.440 JN			
MW-14D-13-15	'13-15	11/14/2006			0.0150 U							
MW-14D-17-19	'17-19	11/14/2006			0.0140 U							
MW-16D-13-15	'13-15	11/17/2006			0.0130 U							
MW-16D-17-19	'17-19	11/20/2006			0.0130 U							
MW-17D-15-17	'15-17	11/10/2006			0.658							
MW-17D-17-19	'17-19	11/10/2006			0.0130 U							
MW-18D-13-15	'13-15	11/13/2006			0.0140 U							
MW-18D-17-19	'17-19	11/13/2006			0.0130 U							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
MW-20D-12-14	'12-14	11/9/2006			0.0301 J				5.30 JN			
MW-20D-32-34	'32-32.9	11/10/2006			0.0130 U							
MW-20D-36-38	'36-38	11/10/2006			0.0130 U							
MW-21D-13-15	'13-13.7	11/16/2006			0.0140 U							
MW-21D-15-17	'15-17	11/16/2006			0.0140 U							
MW-23D-15-17	'15-16	11/15/2006			0.0140 U							
MW-23D-37-39	'37-37.9	11/15/2006			0.0130 U							
MW-25D-10-12	'10-12	11/21/2006			0.0240 U				0.510 JN			
MW-25D-33-35	'33-35	12/18/2006			0.0150 U							
MW-26S-8-10	'8-10	10/26/2006			0.922 J							
MW-6D-0-2	'0-2	11/8/2006			0.0183 J							
MW-6D-12-14	'12-14	11/8/2006			0.0300 U				0.510 JN			
MW-6D-16-18	'16-18	11/20/2006			0.0210 U							
MW-6D-30-32	'30-32	11/21/2006			0.0140 U							
PCA-1-0-.5	'0-2	7/17/2001			0.360 U							
PCA-1-4-6	'4-6	7/17/2001			0.0800 U				0.310 JN	0.240 JN		
PCA-2-0-.5	'0-0.5	7/17/2001			0.0643 J							
PCA-3-0-0.5	'0-0.5	9/13/2001			0.258							
PCA-3-4-6	'4-6	9/13/2001			0.195							
PCA-4-0-0.5	'0-0.5	9/13/2001			0.380 U							
PCA-4-4-6	'4-6	9/26/2001			0.139							
PCA-5-0.5-2	'0.5-2	9/7/2001			0.108							
PCA-5-0-0.5	'0-0.5	9/7/2001			0.0905							
PCA-6-0-0.5	'0-0.5	9/7/2001			0.500							
RR-1 0-0.5	'0-0.5	8/22/2001			17.0							
RR-1 14-16	'14-16	8/22/2001			0.212							
RR-10 0-.5	'0-0.5	10/12/2001			0.377							
RR-11 0-.5	'0-0.5	10/12/2001			0.190							
RR-12 0-.5	'0-0.5	10/12/2001			0.160							
RR-2-0-0.5	'0-0.5	9/13/2001			0.420 U							
RR-2-8-10	'8-10	9/13/2001			0.115							
RR-3-0-0.5	'0-0.5	9/13/2001			0.0344 J							
RR-4-0-0.5	'0-0.5	9/10/2001			2.12							
RR-4-6-8	'6-8	9/13/2001			0.126							
RR-5-0-0.5	'0-0.5	9/10/2001			0.430							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
RR-6-0-0.5	'0-0.5	9/10/2001			0.479							
RR-6-8-10	'8-10	9/10/2001			0.105							
RR-7-0-0.5	'0-0.5	9/10/2001			0.241							
RR-8-0-0.5	'0-0.5	9/26/2001			0.650							
RR-8-6-8	'6-8	9/26/2001			0.140 U							
RR-9 0-.5	'0-0.5	10/12/2001			0.114							
SC-1	'0-1	8/21/2001			0.114							
SC-2	'0-1	8/22/2001			0.294							
SC-3	'0-1	8/22/2001			0.114							0.200 JN
SILO-B1-0-0.5	'0-0.5	9/6/2001			0.470							
SILO-B1-6-8	'6-8	9/6/2001			39.2							
SILO-B2-0-0.5	'0-0.5	9/6/2001			0.360 U							
SILO-B3-0-0.5	'0-0.5	9/6/2001			0.634							
SILO-B3-6-8	'6-8	9/6/2001			0.0740 U				0.580 JN			
SILO-B4-0-0.5	'0-0.5	9/6/2001			0.135 J							
SPR-1-0-0.5	'0-0.5	9/5/2001			0.370 J							
SPR-1-8-10	'8-10	9/5/2001			0.0519 J				0.700 JN			
SPR-2A-0-0.5	'0-0.5	7/19/2001			0.177							
SPR-2A-8-10	'8-10	7/19/2001			0.0880 U							
SPR-2B-0-0.5	'0-0.5	7/19/2001			0.319							
SPR-2B-10-12	'10-12	7/19/2001			0.100 U							
SPR-3 0-.5	'0-0.5	8/21/2001			0.0652 J							
SPR-3 4-6	'4-6	8/21/2001			0.0310 J							
SPR-4A-0-0.5	'0-0.5	7/19/2001			1.38							
SPR-4A-8-10	'8-10	7/19/2001			0.0587 J							
SPR-4B-0-0.5	'0-0.5	8/22/2001			0.0254 J							
SPR-4B-4-6	'4-6	8/23/2001			0.0800 U				2.20 JN			
SPR-4C-0-0.5	'0-0.5	8/23/2001			0.380							
SPR-4C-4-6	'4-6	8/23/2001			0.0460 J			0.320 JN				
SPR-5-0-0.5	'0-0.5	9/5/2001			122.							
SPR-5-2-4	'2-4	9/5/2001			0.0860 U				0.700 JN			
SPR-6-0.5-2	'0.5-2	9/13/2001			1.22							
SPR-6-0-0.5	'0-0.5	9/13/2001			0.0680 U							
SR-1-0-.5	'0-0.5	7/17/2001		0.540 JN	0.191							
SR-2-0-.5	'0-0.5	7/17/2001		0.370 JN	0.334							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
ST-1-0-0.5	'0-0.5	9/5/2001			0.0942 J							
ST-2-0-0.5	'0-0.5	9/5/2001			2.12							
ST-3-0-0.5	'0-0.5	9/4/2001			0.0353 J							
ST-3-4-6	'4-6	9/4/2001			6.02							
TES-1-0-1	'0-1	12/5/2006			0.115 J							
TES-2-0-1	'0-1	12/4/2006			0.140 UJ							
TES-3-0-1	'0-1	12/4/2006			0.113 J							
TES-4-0-1	'0-1	12/5/2006			0.116				11.0 JN			
TLN-1 .5-2	'0.5-2	8/20/2001			0.280							
TLN-1 0-.5	'0-0.5	8/20/2001			0.120							
TLN-2-0-0.5	'0-0.5	7/19/2001			0.0372 J							
TLN-3-0-.5	'0-0.5	7/17/2001			29.5							
TLN-3-2-4	'2-4	7/17/2001			0.195							
TLN-4 0-.5	'0-0.5	8/20/2001			0.0288 J							
TLN-4 0-.5 DUP	'0-0.5	8/20/2001			0.0466 J							
TLN-5 .5-2	'0.5-2	8/20/2001			0.423							
TLN-5 0-.5	'0-0.5	8/20/2001			0.512							
TLN-5-4-6	'4-6	8/30/2001			0.186							
TLN-6 0-.5	'0-0.5	8/20/2001			0.700							
TLS-10 0-.5	'0-0.5	8/21/2001			0.0780 U							
TLS-10 8-10	'8-10	8/21/2001			0.101							
TLS-1-0-0.5	'0-0.5	9/5/2001			0.390 U							
TLS-11-0-0.5	'0-0.5	9/7/2001			0.150							
TLS-2-0-0.5	'0-0.5	9/7/2001			0.205 J							
TLS-2-6-8	'6-8	9/7/2001			0.120 U							
TLS-3 0-.5	'0-0.5	8/21/2001			0.117							
TLS-4-0-0.5	'0-0.5	9/7/2001			0.117							
TLS-4-8-10	'8-10	9/7/2001			0.124							
TLS-5 0-0.5	'0-0.5	8/21/2001			0.0210 J							
TLS-5-8-10	'8-10	9/26/2001			0.100 U							
TLS-6 0-.5	'0-0.5	8/21/2001			0.373							
TLS-6-3-5	'3-5	9/26/2001			8.90 U							
TLS-7 0-.5	'0-0.5	8/21/2001			0.0950 J							
TLS-8-0-0.5	'0-0.5	9/7/2001			0.137							
TLS-8-6-8	'6-8	9/7/2001			0.192							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Phosphoric Acid, Tris(methylphenyl) Este mg/kg	Phthalic Anhydride mg/kg	Pyrene mg/kg	Stigmast-4-En-3-One mg/kg	Stigmasterol mg/kg	Styrene mg/kg	Sulfur, Mol_ (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Tetradecanal mg/kg
TLS-9 0-.5	'0-0.5	8/21/2001			0.360 U							
TP-105	'0-0	6/8/2007			0.0512 J							
TP-105A	'0-0	6/8/2007			0.0110 U							
TP-106-A	'0-0	6/8/2007			0.0310 J							
TP-106-B	'0-0	6/8/2007			0.0120 U							
WWT-1-0-0.5	'0-0.5	7/19/2001			0.167 J							
WWT-101-15-17	'15-17	11/6/2006			0.0140 U				0.450 JN			
WWT-101-21-23	'21-23	11/6/2006			0.0140 U							
WWT-1-12-14	'12-14	8/23/2001			2.20 J							
WWT-2-0-0.5	'0-0.5	8/23/2001			0.226							
WWT-2-12-14	'12-14	8/23/2001			0.813							
WWT-3-0-0.5	'0-0.5	8/23/2001			0.467							
WWT-3-12-14	'12-14	8/23/2001			0.636							

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid mg/kg	Tri(2-Chloroethyl) Phosphate mg/kg	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9 mg/kg	Triphenyl Phosphate mg/kg	Vitamin E mg/kg
SRS							
12K-B1-0.5-2	'0.5-2	9/6/2001					
12K-B1-0-0.5	'0-0.5	9/6/2001					
12K-B2-0.5-2	'0.5-2	9/6/2001					
12K-B2-0-0.5	'0-0.5	9/6/2001					
150K-1-0.5-2	'0.5-2	9/10/2001					
150K-1-0-0.5	'0-0.5	9/10/2001					
230-B1-0.5	'0-0.5	10/2/2001					
230-B10-0-0.5	'0-0.5	8/30/2001					
230-B10-1.5-2	'1.5-2	8/30/2001					
230-B11-0-0.5	'0-0.5	8/30/2001					
230-B11-1.5-2	'1.5-2	8/30/2001					
230-B1-4-6	'4-6	10/2/2001					
230-B2-0-0.5	'0-0.5	8/30/2001					
230-B2-1.5-2	'1.5-2	8/30/2001					
230-B3-0-0.5	'0-0.5	8/30/2001					
230-B3-1.5-2	'1.5-2	8/30/2001					
230-B4-0-0.5	'0-0.5	8/30/2001					
230-B4-1.5-2	'1.5-2	8/30/2001					
230-B5-0-0.5	'0-0.5	9/13/2001					
230-B5-1.5-2	'1.5-2	9/13/2001					
230-B6 0-0.5	'0-0.5	8/22/2001					
230-B6 1.5-2	'1.5-2	8/22/2001					
230-B7 0-0.5	'0-0.5	8/22/2001					
230-B7 1.5-2	'1.5-2	8/22/2001					
230-B8 1.5-2	'1.5-2	8/22/2001					
230-B9 0-0.5	'0-0.5	8/22/2001					
230-B9 0-0.5	'0-0.5	8/22/2001					
230-B9 1.5-2	'1.5-2	8/22/2001					
231-B1-0-0.5	'0-0.5	10/5/2001					
231-B10-0-0.5	'0-0.5	9/17/2001					
231-B11-0-0.5	'0-0.5	9/19/2001					
231-B11-8-10	'8-10	9/19/2001					
231-B12-0-0.5	'0-0.5	9/17/2001					
231-B13-0-0.5	'0-0.5	9/19/2001					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid	Tri(2-Chloroethyl) Phosphate	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9	Triphenyl Phosphate	Vitamin E
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
231-B13-8-10	'9-10	9/27/2001					
231-B14-0-0.5	'0-0.5	9/19/2001					
231-B2-0.5-2	'0.5-2	8/22/2001					
231-B2-0-0.5	'0-0.5	8/22/2001					
231-B3-0-0.5	'0-0.5	8/22/2001					
231-B4-0-0.5	'0-0.5	8/30/2001					
231-B4-6-8	'6-8	9/27/2001					
231-B5-0.5-2	'0.5-2	9/19/2001					
231-B6-0-0.5	'0-0.5	9/27/2001					
231-B6-4-6	'4-6	9/27/2001					
231-B7-0-0.5	'0-0.5	9/13/2001					
231-B8-0-0.5	'0-0.5	9/27/2001					
231-B8-8-10	'8-10	9/27/2001					
231-B9-0.5-2	'0.5-2	9/27/2001					
231-B9-0-0.5	'0-0.5	9/27/2001					
240-1-0-0.5	'0-0.5	9/26/2001					
240-1-8-10	'8-10	10/1/2001					
5K-B1-0-0.5	'0-0.5	10/1/2001					
5K-B2-0-0.5	'0-0.5	8/31/2001					
5K-B2-8-10	'8-10	8/31/2001					
5K-B3-0-0.5	'0-0.5	9/26/2001					
5K-B4-0-0.5	'0-0.5	10/1/2001					
5K-B4-4-6	'4-6	10/1/2001					
5K-B5-0-0.5	'0-0.5	8/31/2001					
5K-B5-4-6	'4-6	9/26/2001					
AB-1-0-0.5	'0-0.5	9/4/2001					
AB-2-0.5-2	'0.5-2	9/4/2001					
AB-2-0-0.5	'0-0.5	9/4/2001					
ADN-1-0-0.5	'0-0.5	9/5/2001					
ADN-1-8-10	'8-10	9/5/2001					
ADN-2-0-0.5	'0-0.5	9/5/2001					
ADN-2-10-11	'10-11	9/27/2001					
ADS-1-0-.5	'0-0.5	7/17/2001					
ADS-10-0-0.5	'0-2	7/18/2001					
ADS-101-0-1	'0-1	12/5/2006					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid	Tri(2-Chloroethyl) Phosphate	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9	Triphenyl Phosphate	Vitamin E
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADS-101-1-3	'1-3	12/5/2006					
ADS-102-0-1.5	'0-2	12/5/2006					
ADS-102-7-8	'4-8	12/5/2006					
ADS-10-4-6	'4-6	7/18/2001					
ADS-11-0-0.5	'0-2	7/18/2001					
ADS-12-0.5-2	'0.5-2	7/18/2001					
ADS-12-0-0.5	'0-0.5	7/18/2001					
ADS-2-0-0.5	'0-0.5	7/18/2001					
ADS-2-4-6	'4-6	7/18/2001					
ADS-3-0-0.5	'0-0.5	7/18/2001					
ADS-4-0-0.5	'0-2	7/18/2001					
ADS-4-12-14	'12-14	7/18/2001					
ADS-5-0-0.5	'0-0.5	7/18/2001					
ADS-5-4-6	'4-6	9/27/2001					
ADS-6-0.5-2	'0.5-2	7/18/2001					
ADS-6-0-0.5	'0-0.5	7/18/2001					
ADS-7-0-.5	'0-0.5	7/17/2001					
ADS-8-0-0.5	'0-0.5	7/18/2001					
ADS-8-4-6	'4-6	7/18/2001					
ADS-9-0-0.5	'0-0.5	7/18/2001					
BLIND DUP	'0-0	8/21/2001			0.160 JN		
BSL-10-0-1	'0-1	9/21/2001					
BSL-1-0-1	'0-1	9/20/2001					
BSL-11-0-1	'0-1	9/26/2001					
BSL-12-0-1	'0-1	9/26/2001					
BSL-1-4-6	'4-6	9/20/2001					
BSL-2-0-1	'0-1	9/21/2001					
BSL-3-0-0.5	'0-0.5	9/20/2001					
BSL-4-0-1	'0-0.5	9/21/2001					
BSL-4-4-6	'4-6	9/21/2001					
BSL-5-0-.5	'0-0.5	9/21/2001					
BSL-6-0-1	'0-1	9/26/2001					
BSL-6-1-2	'1-2	9/26/2001					
BSL-7-0-.5	'0-0.5	9/21/2001					
BSL-8-0-1	'0-1	9/26/2001					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid	Tri(2-Chloroethyl) Phosphate	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9	Triphenyl Phosphate	Vitamin E
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
BSL-9-.5-2	'0.5-2	9/21/2001					
BSL-9-0-.5	'0-0.5	9/21/2001					
BT-B1-0-0.5	'0-0.5	9/18/2001					
BT-B2-0.5-2	'0.5-2	9/18/2001					
BT-B2-0-0.5	'0-0.5	9/18/2001					
BT-B3-0-0.5	'0-0.5	9/18/2001					
BT-B4-0.5-2	'0.5-2	8/30/2001					
BT-B4-0-0.5	'0-0.5	8/30/2001					
BT-B5-0-.5	'0-0.5	10/2/2001					
BT-B6-0.5-2	'0.5-2	9/17/2001					
BT-B6-0-0.5	'0-0.5	9/17/2001					
CF-1-0-0.5	'0-0.5	8/31/2001					
CF-1-2-4	'2-4	8/31/2001					
CF-2-0-0.5	'0-0.5	8/28/2001					
CF-3-0.5-2	'0.5-2	8/28/2001					
CF-3-0-0.5	'0-0.5	8/28/2001					
CF-4-0-0.5	'0-0.5	8/28/2001					
CF-5-0-0.5	'0-0.5	8/28/2001					
CF-5-4-6	'4-6	8/28/2001					
CF-6-0-0.5	'0-0.5	8/28/2001					
CF-7-0-0.5	'0-0.5	8/28/2001					
CF-7-4-6	'4-6	8/28/2001					
CF-8-0-0.5	'0-0.5	8/28/2001					
CF-9-0.5-2	'0.5-2	8/31/2001					
CF-9-0-0.5	'0-0.5	8/31/2001					
DC-B12-0-0.5	'0-0.5	10/3/2001					
DC-B12-2-4	'2-4	10/3/2001					
DC-SS1-0-0.5	'0-0.5	9/18/2001					
DC-SS11-0-0.5	'0-0.5	9/17/2001					
DC-SS13-0-0.5	'0-0.5	9/17/2001					
DC-SS15-0-0.5	'0-0.5	9/17/2001					
DC-SS17-0-0.5	'0-0.5	9/17/2001					
DC-SS2-0-0.5	'0-0.5	9/17/2001					
DC-SS3-0-0.5	'0-0.5	9/17/2001					
DC-SS6-0-0.5	'0-0.5	9/17/2001					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid	Tri(2-Chloroethyl) Phosphate	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9	Triphenyl Phosphate	Vitamin E
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
DC-SS7-0-0.5	'0-0.5	9/17/2001					
DC-SS9-0-0.5	'0-0.5	9/17/2001					
DSP-1-0-0.5	'0-0.5	10/3/2001					
DSP-1-4-6	'4-6	11/19/2001					
DSP-2-0-0.5	'0-0.5	9/4/2001					
DSP-3-0-0.5	'0-0.5	9/4/2001					
DSP-3-2-4	'2-4	9/4/2001					
DSP-4-0-0.5	'0-0.5	9/4/2001					
DSP-4-4-6	'4-6	9/26/2001					
DUP-01-010824	'0-0.5	8/24/2001					
DUP-01-010831	'2-4	8/31/2001					
DUP-01-010904	'0-0.5	9/4/2001					
DUP-01-010905	'8-10	9/5/2001					
DUP-01-010906	'0-8	9/6/2001					
DUP-01-010913	'0-0.5	9/13/2001					
DUP-01-010917	'0-0.5	9/17/2001					
DUP-01-010926	'1-2	9/26/2001					
DUP-01-010927	'4-6	9/27/2001					
DUP-01-021001	'0-0	10/2/2001					
DUP-01-08 2201	'1.5-2	8/22/2001					
DUP-01-121001	'0-0	10/12/2001					
DUP-01-170402	'0-0	4/17/2002					
DUP-02-010913	'0-0.5	9/13/2001					
DUP-02-010921	'0-1	9/21/2001					
DUP-02-010926	'4-6	9/26/2001					
DUP060807	'0-0	6/8/2007					
DUP-1-010828	'0-0.5	8/28/2001					
DUP-1-010921	'0-0.5	9/21/2001					
DUP110606	'15-17	11/6/2006					
DUP112006	'16-18	11/20/2006					
DUP112106	'10-12	11/21/2006					
DUP-120506	'0-4	12/5/2006					
DUP-120606	'0-4	12/6/2006					
DUPE071801	'0-0.5	7/18/2001					
EC-1	'0-1	8/21/2001					0.300 JN

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid	Tri(2-Chloroethyl) Phosphate	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9	Triphenyl Phosphate	Vitamin E
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EC-2	'0-1	8/21/2001					0.260 JN
EC-3	'0-1	8/21/2001					0.200 JN
EC-4	'0-1	8/21/2001					
EC-5	'0-1	8/21/2001					
EC-6	'0-1	8/21/2001					
EC-7	'0-1	8/21/2001					0.310 JN
EC-8	'0-1	8/21/2001					
EC-9	'0-1	8/21/2001					
ESR-1-0-1	'0-0.5	9/4/2001					
ESR-1-4-6	'4-6	9/4/2001					
HB-101A	'17-17	3/5/2007					
HB-102A	'0-0	3/13/2007					
HB-102B	'0-0	3/14/2007					
HB-102C	'0-0	3/14/2007					
H-B-103A	'17-17	2/20/2007					
H-B-104A	'17-17	2/23/2007					
H-B-104B	'17-17	2/23/2007					
H-B-104C	'17-17	2/23/2007					
H-B-104D	'17-17	2/27/2007					
H-B-104E	'17-17	2/27/2007					
H-B-105C	'17-17	2/8/2007					
H-B-105D	'17-17	2/8/2007					
H-B-105E	'0-0	2/8/2007					
HB-1A	'6.75-6.75	4/18/2002	0.480 JN				
HB-3A	'5.25-5.25	4/17/2002					
HB-3B	'4.5-4.5	4/17/2002					
HB-3C	'4.5-4.5	4/18/2002					
HB-3D	'4.5-4.5	4/18/2002					
HB-4A	'5.33-5.33	4/19/2002					
HB-5A	'3-3	4/22/2002					
HB-7A	'5-5	4/19/2002					
HB-8A	'3-3	4/23/2002					
HB-8B	'4.83-4.83	4/23/2002					
HB-8C	'5.5-5.5	4/23/2002					
HB-9A	'4.75-4.75	4/24/2002					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid	Tri(2-Chloroethyl) Phosphate	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9	Triphenyl Phosphate	Vitamin E
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HF-B1-0-0.5	'0-0.5	9/10/2001					
HF-B1-8-10	'8-10	9/10/2001					
HF-B2-0-0.5	'0-0.5	9/4/2001					
HF-B2-4-6	'4-6	9/4/2001					
HF-B3-0-.5	'0-0.5	10/2/2001					
HF-B3-8-10	'8-10	10/2/2001					
IB-1-0-2	'0-2	4/8/2002					
IB-1-4-6	'4-6	4/8/2002					
IB-2-12-14	'12-14	4/8/2002					
IB-2-4-6	'4-6	4/8/2002					
IB-3-4-6	'4-6	4/8/2002					
IB-3-8-10	'8-10	4/8/2002					
LB-101-0-1	'0-1	12/6/2006					
LB-101-1-3	'1-3	12/6/2006					
LB-102-0-1	'0-3	12/6/2006					
LB-102-1-3	'3-7	12/6/2006					
LB-103-0-1	'0-1	12/6/2006					
LB-103-5-7	'5-7	12/6/2006					
LHP-101-0-1	'0-1	12/4/2006					
LHP-101-5-8	'4-8	12/4/2006					
LHP-102-0-1	'0-1	12/5/2006					
LHP-102-7-9	'7-9	12/5/2006					
LHP-103-0-1	'0-1	12/5/2006					
LHP-103-1-3	'1-3	12/5/2006					
LHP-104-0-1	'0-1	12/5/2006					
LHP-104-7-9	'4-8	12/5/2006					
LHP-105-0-1	'0-1	12/5/2006					
LHP-105-1-3	'1-3	12/5/2006					
LHP-106-0-1	'0-1	12/4/2006					
LHP-106-1-3	'1-3	12/4/2006					
LHP-107-0-1	'0-1	12/5/2006					
LHP-107-5-7	'4-8	12/5/2006					
LHP-108-0-1	'0-1	12/6/2006					
LHP-108-3-7	'3-7	12/6/2006					
LHP-109-0-1	'0-1	12/6/2006					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid	Tri(2-Chloroethyl) Phosphate	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9	Triphenyl Phosphate	Vitamin E
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LHP-109-7-9	'7-9	12/6/2006					
LHP-110-0-1	'0-1	12/4/2006					
LHP-111-0-1	'0-1	12/4/2006					
LHP-112-0-1	'0-1	12/4/2006					
LHP-113-0-1	'0-1	12/4/2006					
LHP-114-0-1	'0-1	12/4/2006					
LHP-115-0-1	'0-1	12/4/2006					
LHP-116-0-1	'0-1	12/4/2006					
LHP-117-0-1	'0-1	12/4/2006					
LHP-118-0-1	'0-1	12/4/2006					
LHP-119-0-1	'0-1	12/4/2006					
LHP-120-0-1	'0-1	12/4/2006					
LHP-121-0-1	'0-1	12/6/2006					
LHP-122-0-1	'0-1	12/6/2006					
LHP-123-0-1	'0-1	12/4/2006					
LHP-124-.5-2	'0.5-2	10/27/2006					
LHP-124-10-12	'10-12	10/31/2006					
LHP-124-2-4	'2-4	10/27/2006					
LHP-124-28-30	'28-30	10/31/2006					
LHP-125-.5-2	'0.5-2	10/27/2006					
LHP-125-10.5-12	'10.5-12	11/1/2006					
LHP-125-12-14	'12-14	11/1/2006					
LHP-125-4-6	'4-6	10/27/2006					
LHP-126-10.5-12	'10.5-12	11/1/2006					
LHP-126-14-16	'14-16	11/1/2006					
LHP-126-2-4	'2-4	10/26/2006					
LHP-126-8-10	'9-10	10/26/2006					
LHP-127-0-1	'0-1	12/6/2006					
LHP-127-3-5	'3-5	12/6/2006					
LHP-128-0-1	'0-4	12/6/2006					
LHP-128-7-8	'17-17	12/6/2006					
LP-1-0-0.5	'0-0.5	8/27/2001					
LP-10-0.5-2	'0.5-2	8/27/2001					
LP-10-0-0.5	'0-0.5	8/27/2001					
LP-101-11-13	'11-13	11/2/2006					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid mg/kg	Tri(2-Chloroethyl) Phosphate mg/kg	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9 mg/kg	Triphenyl Phosphate mg/kg	Vitamin E mg/kg
LP-101-14-16	'14-16	11/2/2006					
LP-101-26-28	'26-28	11/2/2006					
LP-101-50-52	'50-52	11/2/2006					
LP-11-0-0.5	'0-0.5	8/27/2001					
LP-12-0-0.5	'0-0.5	8/27/2001					
LP-12-4-6	'4-6	8/27/2001					
LP-13-0-0.5	'0-0.5	8/24/2001					
LP-14-0.5-2	'0.5-2	8/24/2001					
LP-14-0-0.5	'0-0.5	8/24/2001					
LP-15-0-0.5	'0-0.5	8/24/2001					
LP-16-0.5-2	'0.5-2	8/27/2001					
LP-16-0-0.5	'0-0.5	8/27/2001					
LP-2-0.5-2	'0.5-2	8/28/2001					
LP-2-0-0.5	'0-0.5	8/28/2001					
LP-3-0-0.5	'0-0.5	8/27/2001					
LP-4 .5-2	'0.5-2	8/21/2001					
LP-4 0-.5	'0-0.5	8/21/2001					
LP-5-0-0.5	'0-0.5	8/27/2001					
LP-6-0-0.5	'0-0.5	8/27/2001					
LP-6-4-6	'4-6	8/27/2001					
LP-7-0-0.5	'0-0.5	8/24/2001					
LP-8-0-0.5	'0-0.5	8/24/2001					
LP-8-10-12	'10-12	8/24/2001					
LP-9-0-0.5	'0-0.5	8/24/2001					
MW-11D-12-14	'12-14	12/14/2006					
MW-11D-14-16	'14-16	12/14/2006					
MW-11D-16-18	'16-18	12/14/2006					
MW-14D-13-15	'13-15	11/14/2006					
MW-14D-17-19	'17-19	11/14/2006					
MW-16D-13-15	'13-15	11/17/2006					
MW-16D-17-19	'17-19	11/20/2006					
MW-17D-15-17	'15-17	11/10/2006					
MW-17D-17-19	'17-19	11/10/2006					
MW-18D-13-15	'13-15	11/13/2006					
MW-18D-17-19	'17-19	11/13/2006					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid	Tri(2-Chloroethyl) Phosphate	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9	Triphenyl Phosphate	Vitamin E
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-20D-12-14	'12-14	11/9/2006					
MW-20D-32-34	'32-32.9	11/10/2006					
MW-20D-36-38	'36-38	11/10/2006					
MW-21D-13-15	'13-13.7	11/16/2006					
MW-21D-15-17	'15-17	11/16/2006					
MW-23D-15-17	'15-16	11/15/2006					
MW-23D-37-39	'37-37.9	11/15/2006					
MW-25D-10-12	'10-12	11/21/2006					
MW-25D-33-35	'33-35	12/18/2006					
MW-26S-8-10	'8-10	10/26/2006					
MW-6D-0-2	'0-2	11/8/2006					
MW-6D-12-14	'12-14	11/8/2006					
MW-6D-16-18	'16-18	11/20/2006					
MW-6D-30-32	'30-32	11/21/2006					
PCA-1-0-.5	'0-2	7/17/2001					
PCA-1-4-6	'4-6	7/17/2001					
PCA-2-0-.5	'0-0.5	7/17/2001					
PCA-3-0-0.5	'0-0.5	9/13/2001					
PCA-3-4-6	'4-6	9/13/2001					
PCA-4-0-0.5	'0-0.5	9/13/2001					
PCA-4-4-6	'4-6	9/26/2001					
PCA-5-0.5-2	'0.5-2	9/7/2001					
PCA-5-0-0.5	'0-0.5	9/7/2001					
PCA-6-0-0.5	'0-0.5	9/7/2001		0.230 JN			
RR-1 0-0.5	'0-0.5	8/22/2001					
RR-1 14-16	'14-16	8/22/2001					
RR-10 0-.5	'0-0.5	10/12/2001					
RR-11 0-.5	'0-0.5	10/12/2001					
RR-12 0-.5	'0-0.5	10/12/2001					
RR-2-0-0.5	'0-0.5	9/13/2001					
RR-2-8-10	'8-10	9/13/2001					
RR-3-0-0.5	'0-0.5	9/13/2001					
RR-4-0-0.5	'0-0.5	9/10/2001					
RR-4-6-8	'6-8	9/13/2001					
RR-5-0-0.5	'0-0.5	9/10/2001					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid	Tri(2-Chloroethyl) Phosphate	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9	Triphenyl Phosphate	Vitamin E
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RR-6-0-0.5	'0-0.5	9/10/2001					
RR-6-8-10	'8-10	9/10/2001					
RR-7-0-0.5	'0-0.5	9/10/2001					
RR-8-0-0.5	'0-0.5	9/26/2001					
RR-8-6-8	'6-8	9/26/2001					
RR-9 0-.5	'0-0.5	10/12/2001					
SC-1	'0-1	8/21/2001				2.40 JN	
SC-2	'0-1	8/22/2001					0.350 JN
SC-3	'0-1	8/22/2001					
SILO-B1-0-0.5	'0-0.5	9/6/2001					
SILO-B1-6-8	'6-8	9/6/2001					
SILO-B2-0-0.5	'0-0.5	9/6/2001					
SILO-B3-0-0.5	'0-0.5	9/6/2001					
SILO-B3-6-8	'6-8	9/6/2001					
SILO-B4-0-0.5	'0-0.5	9/6/2001					
SPR-1-0-0.5	'0-0.5	9/5/2001					
SPR-1-8-10	'8-10	9/5/2001					
SPR-2A-0-0.5	'0-0.5	7/19/2001					
SPR-2A-8-10	'8-10	7/19/2001					
SPR-2B-0-0.5	'0-0.5	7/19/2001					
SPR-2B-10-12	'10-12	7/19/2001					
SPR-3 0-.5	'0-0.5	8/21/2001					
SPR-3 4-6	'4-6	8/21/2001					
SPR-4A-0-0.5	'0-0.5	7/19/2001					
SPR-4A-8-10	'8-10	7/19/2001	2.60 JN				
SPR-4B-0-0.5	'0-0.5	8/22/2001					
SPR-4B-4-6	'4-6	8/23/2001					
SPR-4C-0-0.5	'0-0.5	8/23/2001					
SPR-4C-4-6	'4-6	8/23/2001					
SPR-5-0-0.5	'0-0.5	9/5/2001					
SPR-5-2-4	'2-4	9/5/2001					
SPR-6-0.5-2	'0.5-2	9/13/2001					
SPR-6-0-0.5	'0-0.5	9/13/2001					
SR-1-0-.5	'0-0.5	7/17/2001					
SR-2-0-.5	'0-0.5	7/17/2001					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid	Tri(2-Chloroethyl) Phosphate	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9	Triphenyl Phosphate	Vitamin E
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ST-1-0-0.5	'0-0.5	9/5/2001					
ST-2-0-0.5	'0-0.5	9/5/2001					
ST-3-0-0.5	'0-0.5	9/4/2001					
ST-3-4-6	'4-6	9/4/2001					
TES-1-0-1	'0-1	12/5/2006					
TES-2-0-1	'0-1	12/4/2006					
TES-3-0-1	'0-1	12/4/2006					
TES-4-0-1	'0-1	12/5/2006					
TLN-1 .5-2	'0.5-2	8/20/2001					
TLN-1 0-.5	'0-0.5	8/20/2001					
TLN-2-0-0.5	'0-0.5	7/19/2001					
TLN-3-0-.5	'0-0.5	7/17/2001					
TLN-3-2-4	'2-4	7/17/2001					
TLN-4 0-.5	'0-0.5	8/20/2001					
TLN-4 0-.5 DUP	'0-0.5	8/20/2001					
TLN-5 .5-2	'0.5-2	8/20/2001					
TLN-5 0-.5	'0-0.5	8/20/2001					
TLN-5-4-6	'4-6	8/30/2001					
TLN-6 0-.5	'0-0.5	8/20/2001					
TLS-10 0-.5	'0-0.5	8/21/2001					
TLS-10 8-10	'8-10	8/21/2001					
TLS-1-0-0.5	'0-0.5	9/5/2001					
TLS-11-0-0.5	'0-0.5	9/7/2001					
TLS-2-0-0.5	'0-0.5	9/7/2001					
TLS-2-6-8	'6-8	9/7/2001					
TLS-3 0-.5	'0-0.5	8/21/2001					
TLS-4-0-0.5	'0-0.5	9/7/2001					
TLS-4-8-10	'8-10	9/7/2001					
TLS-5 0-0.5	'0-0.5	8/21/2001					
TLS-5-8-10	'8-10	9/26/2001					
TLS-6 0-.5	'0-0.5	8/21/2001					
TLS-6-3-5	'3-5	9/26/2001					
TLS-7 0-.5	'0-0.5	8/21/2001					
TLS-8-0-0.5	'0-0.5	9/7/2001					
TLS-8-6-8	'6-8	9/7/2001					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetradecanoic Acid mg/kg	Tri(2-Chloroethyl) Phosphate mg/kg	Tricyclo_5_4_0_02,8_undec-9-Ene, 2,6,6,9 mg/kg	Triphenyl Phosphate mg/kg	Vitamin E mg/kg
TLS-9 0-.5	'0-0.5	8/21/2001					
TP-105	'0-0	6/8/2007					
TP-105A	'0-0	6/8/2007					
TP-106-A	'0-0	6/8/2007					
TP-106-B	'0-0	6/8/2007					
WWT-1-0-0.5	'0-0.5	7/19/2001					
WWT-101-15-17	'15-17	11/6/2006					
WWT-101-21-23	'21-23	11/6/2006					
WWT-1-12-14	'12-14	8/23/2001					
WWT-2-0-0.5	'0-0.5	8/23/2001					
WWT-2-12-14	'12-14	8/23/2001					
WWT-3-0-0.5	'0-0.5	8/23/2001					
WWT-3-12-14	'12-14	8/23/2001					

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
12K-B1-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8260B	Total TIC, Volatile	N			U
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Carbon Dioxide	N		6.00	JB
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Alkane	N		0.00750	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Unknown	N		0.00790	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Unknown	N		0.0310	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Unknown	N		0.00700	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Alkane	N		0.0190	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Alkane	N		0.0110	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Alkyne	N		0.0100	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Unknown	N		0.0110	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Total TIC, Volatile	N			U
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Alkane	N		0.0120	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Unknown	N		0.00920	J
12K-B2-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8260B	System Artifact	N		0.0160	J
12K-B2-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8260B	Total TIC, Volatile	N			U
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	System Artifact	N		0.0150	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Benzene, Chloro-	N		0.00550	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Total TIC, Volatile	N			U
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8260B	Carbon Dioxide	N		4.80	JNB
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8260B	Total TIC, Volatile	N			U
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8260B	C9H18O	N		0.00910	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8260B	Dimethyl Naphthalene	N		0.00510	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8260B	Total TIC, Volatile	N			U
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8260B	Methyl Naphthalene	N		0.0160	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.00600	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8260B	System Artifact	N		0.0140	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Carbon Dioxide	N		48.0	JNB
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	System Artifact	N		0.0590	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Methyl Naphthalene	N		0.0710	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Unknown	N		0.150	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Unknown	N		0.230	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Trichlorobenzene	N		0.380	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Trichlorobenzene	N		0.0810	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Unknown	N		0.0740	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Unknown	N		0.100	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		8.80	JNB
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Alkane	N		0.00690	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Alkane	N		0.0150	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Trichlorobenzene	N		0.220	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Trichlorobenzene	N		0.0560	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Alkane	N		0.0180	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Unknown	N		0.0340	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Unknown	N		0.0510	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Unknown	N		0.0660	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Methyl Naphthalene	N		0.0220	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	System Artifact	N		0.0100	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Alkane	N		0.00950	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Carbon Dioxide	N		9.60	JNB
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	C10H16	N		0.0140	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Unknown	N		0.0250	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Alkane	N		0.00640	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Unknown	N		0.0270	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	C4 Alkyl Benzene	N		0.00790	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Alkane	N		0.00790	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Indane	N		0.00800	JN
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	System Artifact	N		0.00780	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Carbon Dioxide	N		6.80	JNB
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Carbon Dioxide	N		8.40	JNB
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	System Artifact	N		0.00760	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Benzene, 1,2-Dichloro-	N		0.00840	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Unknown	N		0.0110	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Benzene, Trichloro	N		0.00680	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B2-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Carbon Dioxide	N		6.40	JNB
230-B2-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Carbon Dioxide	N		18.0	JNB
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.00590	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.00550	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		6.40	JNB
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	System Artifact	N		0.00650	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Carbon Dioxide	N		8.00	JNB
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	System Artifact	N		0.00620	J
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B4-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Carbon Dioxide	N		6.20	JNB
230-B4-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	C10H18	N		0.0410	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.0210	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Unknown	N		0.0120	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Carbon Dioxide	N		15.0	JNB
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Alkane	N		0.0130	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Carbon Dioxide	N		5.00	JNB
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.0160	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.0130	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8260B	Dimethyl Naphthalene	N		0.0230	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.0100	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.0100	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8260B	Carbon Dioxide	N		5.90	JB
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8260B	Naphthalene Decahydro-Pentamethyl	N		0.0160	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8260B	Unknown	N		0.0300	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	System Artifact	N		0.140	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.0200	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.0350	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.0290	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.00730	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8260B	System Artifact	N		0.120	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8260B	Unknown	N		0.0500	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B10-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.100	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8260B	Alcohols	N		0.0230	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8260B	Unknown	N		0.0170	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Alkane	N		0.0170	JN
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8260B	Trichlorobenzene	N		0.0450	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8260B	Alkane	N		0.0160	J
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8260B	Unknown	N		0.00660	J
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8260B	Carbon Dioxide	N		12.0	JB
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8260B	Alkane	N		0.0260	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8260B	Trichlorobenzene	N		0.130	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8260B	Unknown	N		1.50	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8260B	Unknown	N		1.30	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8260B	Unknown	N		0.120	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Carbon Dioxide	N		8.90	JB
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.00920	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Alkane	N		0.00680	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Hexachlorobutadiene	N		0.900	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Hexachlorobutadiene	N		0.240	J
231-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Carbon Dioxide	N		15.0	JNB
231-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Alkane	N		0.0300	J
231-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Alkane	N		0.0340	J
231-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Unknown	N		0.0210	J
231-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Alkane	N		0.00990	J
231-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.00880	J
231-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Alkane	N		0.0220	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8260B	Carbon Dioxide	N		14.0	JNB
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8260B	Trichlorobenzene	N		0.00600	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8260B	Naphthalene, Chloro-	N		0.0320	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	System Artifact	N		0.0210	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	Hexachlorobutadiene	N		0.900	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	Alkane	N		0.0150	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	Alkane	N		0.0110	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	Alcohols	N		0.0180	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	Alkane	N		0.00750	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8260B	System Artifact	N		0.0220	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Alkane	N		0.00650	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	Carbon Dioxide	N		1.70	JB
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	Alkane	N		0.160	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	Carbon Dioxide	N		0.620	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	Total TIC, Volatile	N		0.220	J
231-B8-8-10	ACTD	8-10	9/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8260B	Alkane	N		0.0300	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
231-B9-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	System Artifact	N		0.0240	J
231-B9-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
240-1-8-10	ACTD	8-10	10/1/2001	SO	SW8260B	Alkane	N		0.0270	J
240-1-8-10	ACTD	8-10	10/1/2001	SO	SW8260B	Total TIC, Volatile	N			U
5K-B1-0-0.5	ACTD	0-0.5	10/1/2001	SO	SW8260B	System Artifact	N		0.0170	J
5K-B1-0-0.5	ACTD	0-0.5	10/1/2001	SO	SW8260B	Alkane	N		0.0220	J
5K-B1-0-0.5	ACTD	0-0.5	10/1/2001	SO	SW8260B	Total TIC, Volatile	N			U
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Carbon Dioxide	N		8.80	JNB
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	System Artifact	N		0.0130	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Total TIC, Volatile	N			U
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8260B	Alkane	N		0.00560	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8260B	Carbon Dioxide	N		4.20	JB
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8260B	Alkane	N		0.00610	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8260B	Unknown	N		0.0150	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8260B	Total TIC, Volatile	N			U
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8260B	Carbon Dioxide	N		14.0	JB
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
5K-B4-0-0.5	ACTD	0-0.5	10/1/2001	SO	SW8260B	System Artifact	N		0.00980	J
5K-B4-0-0.5	ACTD	0-0.5	10/1/2001	SO	SW8260B	Total TIC, Volatile	N			U
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8260B	Naphthalene Decahydro	N		0.520	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8260B	Naphthalene Decahydro	N		0.440	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8260B	Total TIC, Volatile	N			U
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Alkane	N		0.00610	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Carbon Dioxide	N		14.0	JNB
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Trichlorobenzene	N		0.0290	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Alkane	N		0.00610	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Naphthalene, Chloro-	N		0.110	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Benzene, 1,2-Dichloro-	N		0.0470	JN
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.00650	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Total TIC, Volatile	N			U
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Alkane	N		0.00620	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	System Artifact	N		0.360	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8260B	Alkane	N		0.0120	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8260B	Carbon Dioxide	N		17.0	JB
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8260B	Alkane	N		0.0110	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8260B	Alkane	N		0.0200	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8260B	Alkane	N		0.0130	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8260B	Naphthalene, Chloro-	N		0.0230	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8260B	Alkane	N		0.00970	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8260B	Hexachlorobutadiene	N		0.0570	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8260B	Trichlorobenzene	N		0.0110	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8260B	Trichlorobenzene	N		0.0120	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	Carbon Dioxide	N		13.0	JNB
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	Hexachlorobutadiene	N		0.00640	JN
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	Alkane	N		0.00650	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8260B	Unknown	N		1.10	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADN-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Carbon Dioxide	N		4.70	JNB
ADN-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADN-2-10-11	ACTD	10-11	9/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADN-2-10-11	ACTD	10-11	9/27/2001	SO	SW8260B	Benzene, 1,2-Dichloro-	N		0.170	J
ADS-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	System Artifact	N		0.0140	J
ADS-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-10-0-0.5	ACTD	0-2	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-10-4-6	ACTD	4-6	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-11-0-0.5	ACTD	0-2	7/18/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.00920	J
ADS-11-0-0.5	ACTD	0-2	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-12-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-12-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-2-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.0180	J
ADS-2-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.00660	J
ADS-2-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-2-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Unknown	N		0.0120	J
ADS-2-4-6	ACTD	4-6	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8260B	C9H18O	N		0.0200	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8260B	Tetrachlorobenzene	N		0.00990	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8260B	C10H16	N		0.0120	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0410	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8260B	9,10-Anthracenedione, -Amino-	N		0.0170	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.0270	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-5-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8260B	System Artifact	N		0.110	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8260B	System Artifact	N		0.0380	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8260B	Alkane	N		0.00740	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8260B	Unknown	N		0.00790	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8260B	Alkane	N		0.0110	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8260B	Alkane	N		0.0290	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0350	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8260B	Cycloalkane	N		0.0170	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8260B	Unknown	N		0.0100	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8260B	Unknown	N		0.0140	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0110	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8260B	Benzo[b]thiophene, Methyl-	N		0.0130	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8260B	Alkane	N		0.0130	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8260B	9,10-Anthracenedione, -Amino-	N		0.0110	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Alkane	N		0.0110	J
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Unknown	N		0.0110	J
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Alkane	N		0.0110	J
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Alkene	N		0.00570	J
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Naphthalene Tetrahydro-Methyl	N		0.0400	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Unknown	N		0.0160	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	1h-Indene-Dihydro-Methyl	N		0.0250	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Unknown	N		0.0160	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0230	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Alkane	N		0.0230	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	1h-Indene-Dihydro-Dimethyl	N		0.0180	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	1h-Indene-Dihydro-Ethyl	N		0.0200	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Alkane	N		0.0160	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-8-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-8-4-6	ACTD	4-6	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
ADS-9-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8260B	System Artifact	FD	EC-4	0.130	J
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8260B	Total TIC, Volatile	FD	EC-4		U
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.0360	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8260B	Unknown	N		0.0420	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-1-0-1	ACTD	0-1	9/20/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-1-0-1	ACTD	0-1	9/20/2001	SO	SW8260B	System Artifact	N		0.0130	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-12-0-1	ACTD	0-1	9/26/2001	SO	SW8260B	Alkane	N		0.00740	J
BSL-12-0-1	ACTD	0-1	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-1-4-6	ACTD	4-6	9/20/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-2-0-1	ACTD	0-1	9/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-2-0-1	ACTD	0-1	9/21/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.0260	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-4-0-1	ACTD	0-0.5	9/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-4-4-6	ACTD	4-6	9/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-4-4-6	ACTD	4-6	9/21/2001	SO	SW8260B	Unknown	N		0.0220	J
BSL-5-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-6-0-1	ACTD	0-1	9/26/2001	SO	SW8260B	Alkane	N		0.00950	J
BSL-6-0-1	ACTD	0-1	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-6-1-2	ACTD	1-2	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-7-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-8-0-1	ACTD	0-1	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-9-.5-2	ACTD	0.5-2	9/21/2001	SO	SW8260B	Unknown	N		1.80	J
BSL-9-.5-2	ACTD	0.5-2	9/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
BSL-9-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8260B	Alkane	N		0.00640	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8260B	Unknown	N		0.00990	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8260B	Unknown	N		0.00900	J
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8260B	Alkane	N		0.00600	J
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8260B	Carbon Dioxide	N		6.40	JNB
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	System Artifact	N		0.0110	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Carbon Dioxide	N		12.0	JNB
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.00780	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0100	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8260B	Alkane	N		0.00720	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8260B	Total TIC, Volatile	N			U
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-1-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	System Artifact	N		0.0160	J
CF-1-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8260B	Carbon Dioxide	N		5.50	JNB
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8260B	Alkene (TIC)	N		0.0120	J
CF-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Carbon Dioxide	N		15.0	JNB
CF-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Hexachlorobutadiene	N		0.0880	J
CF-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-3-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8260B	Unknown	N		0.460	J
CF-3-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-3-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	System Artifact	N		0.200	J
CF-3-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-4-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-5-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	System Artifact	N		0.130	J
CF-5-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-5-4-6	ACTD	4-6	8/28/2001	SO	SW8260B	Carbon Dioxide	N		5.60	JNB
CF-5-4-6	ACTD	4-6	8/28/2001	SO	SW8260B	Hexachlorobutadiene	N		0.230	J
CF-5-4-6	ACTD	4-6	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-6-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-7-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.00560	J
CF-7-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Hexachlorobutadiene	N		0.00890	J
CF-7-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-7-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Alcohols	N		0.00640	J
CF-7-4-6	ACTD	4-6	8/28/2001	SO	SW8260B	Carbon Dioxide	N		5.40	JNB
CF-7-4-6	ACTD	4-6	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-8-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-9-0.5-2	ACTD	0.5-2	8/31/2001	SO	SW8260B	Carbon Dioxide	N		6.10	JB
CF-9-0.5-2	ACTD	0.5-2	8/31/2001	SO	SW8260B	Total TIC, Volatile	N			U
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Carbon Dioxide	N		5.20	JNB
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Alkane	N		0.0130	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8260B	Total TIC, Volatile	N			U
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0140	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8260B	Trichlorobenzene	N		0.0110	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8260B	Alkane	N		0.0120	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8260B	Total TIC, Volatile	N			U
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8260B	System Artifact	N		0.0410	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8260B	Dimethylbenzenamine	N		0.0890	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8260B	Dichlorobenzene	N		0.0440	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.0110	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8260B	Trichlorobenzene	N		0.0100	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8260B	Total TIC, Volatile	N			U
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8260B	System Artifact	N		0.00770	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8260B	Total TIC, Volatile	N			U
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Isomer Of C13H9N	N		0.00460	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Unknown	N		0.00600	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Acetaldehyde	N		0.0100	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Unknown	N		0.00740	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	System Artifact	N		0.0120	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	System Artifact	N		0.00840	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8260B	Dimethylbenzenamine	N		0.0270	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8260B	Total TIC, Volatile	N			U
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8260B	System Artifact	N		0.0140	J
DSP-1-4-6	ACTD	4-6	11/19/2001	SO	SW8260B	Alkane	N		0.0150	J
DSP-1-4-6	ACTD	4-6	11/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
DSP-1-4-6	ACTD	4-6	11/19/2001	SO	SW8260B	Unknown	N		0.0370	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
DSP-3-2-4	ACTD	2-4	9/4/2001	SO	SW8260B	System Artifact	N		0.110	J
DSP-3-2-4	ACTD	2-4	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	System Artifact	N		0.0140	J
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Unknown	N		0.0100	J
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8260B	Total TIC, Volatile	FD	LP-8-0-0.5		U
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8260B	Unknown	FD	LP-8-0-0.5	0.0120	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8260B	Unknown	FD	LP-8-0-0.5	0.00710	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8260B	System Artifact	FD	CF-1-2-4	0.0310	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8260B	Total TIC, Volatile	FD	CF-1-2-4		U
DUP-01-010904	ACTD	0-0.5	9/4/2001	SO	SW8260B	Carbon Dioxide	FD	HF-B2-0-0.5	7.50	JNB
DUP-01-010904	ACTD	0-0.5	9/4/2001	SO	SW8260B	Total TIC, Volatile	FD	HF-B2-0-0.5		U
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8260B	Benzene, 1,2-Dichloro-	FD	ADN-1-8-10	0.200	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8260B	Unknown	FD	ADN-1-8-10	0.0670	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8260B	Total TIC, Volatile	FD	ADN-1-8-10		U
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8260B	Methyl Naphthalene	FD	ADN-1-8-10	0.00700	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8260B	Cycloalkane/Alkene	FD	ADN-1-8-10	0.0140	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8260B	Benzene, Trichloro	FD	ADN-1-8-10	0.0410	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8260B	System Artifact	FD	SILO-B1-6-8	0.110	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8260B	Alkane	FD	SILO-B1-6-8	0.110	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8260B	Alcohols	FD	SILO-B1-6-8	0.130	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	FD	SILO-B1-6-8	6.70	JB
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8260B	Alkane	FD	SILO-B1-6-8	0.180	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8260B	Total TIC, Volatile	FD	SILO-B1-6-8		U
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8260B	Cycloalkane/Alkene	FD	SILO-B1-6-8	0.210	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8260B	Unknown	FD	SILO-B1-6-8	0.130	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	FD	PCA-4-0-0.5	10.0	JNB
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8260B	Alkane	FD	PCA-4-0-0.5	0.0110	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8260B	Total TIC, Volatile	FD	PCA-4-0-0.5		U
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8260B	Total TIC, Volatile	FD	DC-SS18-0-0.5		U
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8260B	Total TIC, Volatile	FD	BSL-6-1-2		U
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8260B	Alkane	FD	ADS-5-4-6	0.0460	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8260B	Alkane	FD	ADS-5-4-6	0.00770	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8260B	Alkane	FD	ADS-5-4-6	0.0270	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8260B	Unknown	FD	ADS-5-4-6	0.0120	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8260B	Total TIC, Volatile	FD	ADS-5-4-6		U
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8260B	Naphthalene Decahydro-Pentamethyl	FD	ADS-5-4-6	0.0140	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8260B	Alkane	FD	ADS-5-4-6	0.0120	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8260B	Alkane	FD	ADS-5-4-6	0.0200	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8260B	Alkane	FD	ADS-5-4-6	0.0280	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8260B	Total TIC, Volatile	FD	BT-B5-0-0.5		U
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8260B	System Artifact	FD	230-B7 1.5-2	0.150	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8260B	Total TIC, Volatile	FD	230-B7 1.5-2		U
DUP-01-121001	ACTD	0-0	10/12/2001	SO	SW8260B	Alkane	FD	RR-11 0-.5	0.0210	J
DUP-01-121001	ACTD	0-0	10/12/2001	SO	SW8260B	Total TIC, Volatile	FD	RR-11 0-.5		U
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	FD	HB-3A	17.0	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8260B	Total TIC, Volatile	FD	HB-3A		U
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8260B	Carbon Dioxide	FD	231-B7-0-.5	15.0	JNB
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8260B	Total TIC, Volatile	FD	231-B7-0-.5		U
DUP-02-010921	ACTD	0-1	9/21/2001	SO	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	FD	BSL-10-0-1	0.0260	J
DUP-02-010921	ACTD	0-1	9/21/2001	SO	SW8260B	Total TIC, Volatile	FD	BSL-10-0-1		U
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8260B	System Artifact	FD	5K-B5-4-6	0.0250	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8260B	System Artifact	FD	5K-B5-4-6	0.0700	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8260B	Total TIC, Volatile	FD	5K-B5-4-6		U
DUP-1-010828	ACTD	0-0.5	8/28/2001	SO	SW8260B	Total TIC, Volatile	FD	CF-6-0-0.5		U
DUP-1-010921	ACTD	0-0.5	9/21/2001	SO	SW8260B	Total TIC, Volatile	FD	BSL-7-0-.5		U
DUP112106	ACTD	10-12	11/21/2006	SO	SW8260B	Unknown (RT=5.7)	FD	MW-25D-10-12	1.20	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	unknown (RT=20.21)	FD	LHP-128-0-1	1.30	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	unknown (RT=20.1)	FD	LHP-128-0-1	1.20	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	Naphthalene methyl (RT=20.77)	FD	LHP-128-0-1	1.60	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	alkane (RT=18.55)	FD	LHP-128-0-1	1.80	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	unknown (RT=19.77)	FD	LHP-128-0-1	2.20	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	unknown (RT=19.67)	FD	LHP-128-0-1	2.00	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	unknown (RT=20.45)	FD	LHP-128-0-1	2.70	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	C6 alkyl benzene (RT=19.91)	FD	LHP-128-0-1	2.30	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	alkane (RT=19.24)	FD	LHP-128-0-1	3.40	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	Alkane (RT=18.99)	FD	LHP-128-0-1	1.50	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	Naphthalene methyl (RT=21.04)	FD	LHP-128-0-1	1.80	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	unknown (RT=19.12)	FD	LHP-128-0-1	1.20	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8260B	Unknown (RT=19.59)	FD	LHP-128-0-1	1.50	J
DUPE071801	ACTD	0-0.5	7/18/2001	SO	SW8260B	Total TIC, Volatile	FD	ADS-2-0-0.5		U
EC-1	ACTD	0-1	8/21/2001	SO	SW8260B	System Artifact	N		0.160	J
EC-1	ACTD	0-1	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
EC-2	ACTD	0-1	8/21/2001	SO	SW8260B	System Artifact	N		0.210	J
EC-2	ACTD	0-1	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
EC-3	ACTD	0-1	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
EC-4	ACTD	0-1	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
EC-5	ACTD	0-1	8/21/2001	SO	SW8260B	System Artifact	N		0.0630	J
EC-5	ACTD	0-1	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
EC-6	ACTD	0-1	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
EC-7	ACTD	0-1	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
EC-8	ACTD	0-1	8/21/2001	SO	SW8260B	Unknown	N		0.00940	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
EC-9	ACTD	0-1	8/21/2001	SO	SW8260B	System Artifact	N		0.0790	J
EC-9	ACTD	0-1	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
ESR-1-0-1	ACTD	0-0.5	9/4/2001	SO	SW8260B	System Artifact	N		0.0270	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
ESR-1-0-1	ACTD	0-0.5	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
ESR-1-4-6	ACTD	4-6	9/4/2001	SO	SW8260B	Carbon Dioxide	N		7.00	JNB
ESR-1-4-6	ACTD	4-6	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0220	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.110	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8260B	Total TIC, Volatile	N			U
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8260B	Alcohols	N		0.0260	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8260B	Alcohols	N		0.0110	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8260B	C4H8O	N		0.0110	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8260B	Unknown	N		0.0180	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8260B	System Artifact	N		3.80	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8260B	Total TIC, Volatile	N			U
HB-3B	ACTD	4.5-4.5	4/17/2002	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.120	J
HB-3B	ACTD	4.5-4.5	4/17/2002	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.00740	J
HB-3B	ACTD	4.5-4.5	4/17/2002	SO	SW8260B	Total TIC, Volatile	N			U
HB-3C	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.00460	J
HB-3C	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	Total TIC, Volatile	N			U
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	Alkane	N		0.00820	J
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	Unknown	N		0.00850	J
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	Total TIC, Volatile	N			U
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	Cycloalkane/Alkene	N		0.00740	J
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	Alkane	N		0.00870	J
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	Cycloalkane/Alkene	N		0.0140	J
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	Alkane	N		0.00790	J
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	Alkane	N		0.0270	J
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	Cycloalkane/Alkene	N		0.0180	J
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8260B	Cycloalkane/Alkene	N		0.0110	J
HB-4A	ACTD	.33-5.3	4/19/2002	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.00740	J
HB-4A	ACTD	.33-5.3	4/19/2002	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.00730	J
HB-4A	ACTD	.33-5.3	4/19/2002	SO	SW8260B	Total TIC, Volatile	N			U
HB-5A	ACTD	3-3	4/22/2002	SO	SW8260B	C10H18	N		0.0100	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8260B	C10H16	N		0.00760	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0200	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8260B	Naphthalene Methyl	N		0.00950	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8260B	Total TIC, Volatile	N			U
HB-7A	ACTD	5-5	4/19/2002	SO	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.0950	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8260B	C10H18	N		0.0130	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8260B	Naphthalene Methyl	N		0.0170	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.0250	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8260B	C10H16	N		0.00910	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8260B	Alkane	N		0.00620	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8260B	Total TIC, Volatile	N			U
HB-8A	ACTD	3-3	4/23/2002	SO	SW8260B	Total TIC, Volatile	N			U
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8260B	Total TIC, Volatile	N			U
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8260B	Alkane	N		0.0450	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8260B	Alkane	N		0.0720	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8260B	Alkane	N		0.0620	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8260B	Alkane	N		0.0570	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8260B	Benzene, 1,2,4-Trichloro-	N		0.0970	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8260B	Alkane	N		0.0390	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8260B	Total TIC, Volatile	N			U
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8260B	Benzothiophene	N		0.0170	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8260B	Naphthalene Methyl	N		0.110	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0300	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8260B	C10H18	N		0.190	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8260B	Benzene, -Trichloro-	N		0.0840	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.0420	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8260B	Total TIC, Volatile	N			U
HF-B1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8260B	Total TIC, Volatile	N			U
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	C3 Alkyl Benzene	N		0.0430	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	Total TIC, Volatile	N			U
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	1h-Indene-Dihydro-Methyl	N		0.0320	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.470	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	Alkane	N		0.350	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	Alkane	N		0.100	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	Alkane	N		0.0620	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	Unknown	N		0.0320	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	Unknown	N		0.0620	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	Alkane	N		0.0740	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	Unknown	N		0.120	J
HF-B2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	Carbon Dioxide	N		5.90	JNB
HF-B2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
HF-B2-4-6	ACTD	4-6	9/4/2001	SO	SW8260B	System Artifact	N		0.140	J
HF-B2-4-6	ACTD	4-6	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8260B	Total TIC, Volatile	N			U
HF-B3-8-10	ACTD	8-10	10/2/2001	SO	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.0150	J
HF-B3-8-10	ACTD	8-10	10/2/2001	SO	SW8260B	Total TIC, Volatile	N			U
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.00630	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8260B	Total TIC, Volatile	N			U
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	Total TIC, Volatile	N			U
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8260B	1h-Indene-Dihydro-Methyl-	N		0.0280	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8260B	C8H6S	N		0.0510	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8260B	1h-Indene-Dihydro-Methyl-	N		0.0250	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8260B	1h-Indene-Dihydro-Methyl-	N		0.0210	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8260B	C17H12	N		0.0290	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8260B	Benzo[b]thiophene, Methyl-	N		0.0330	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8260B	9,10-Anthracenedione, -Amino-	N		0.0220	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8260B	Naphthalene Methyl	N		0.490	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8260B	Alkane	N		0.120	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8260B	Total TIC, Volatile	N			U
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	C17H12	N		0.0140	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	C8H6S	N		0.0160	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	Benzene, 1,2,4-Trichloro-	N		0.0160	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	9,10-Anthracenedione, -Amino-	N		0.0160	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	Naphthalene Methyl	N		0.190	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	1h-Indene-Dihydro-Methyl-	N		0.0180	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	Benzo[b]thiophene, Methyl-	N		0.0170	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.0350	JN
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	Total TIC, Volatile	N			U
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0220	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	C10H18	N		0.0280	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	Cycloalkane/Alkene	N		0.0260	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	Naphthalene Methyl	N		0.0160	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	C10H16	N		0.0210	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	C9H8	N		0.0290	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8260B	Total TIC, Volatile	N			U
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8260B	C8H6S	N		0.180	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8260B	1h-Indene-Dihydro-Methyl-	N		0.0670	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8260B	C10H18	N		0.220	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8260B	1h-Indene-Dihydro-Methyl-	N		0.0530	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8260B	C12H8O	N		0.0280	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8260B	Naphthalene Methyl	N		0.820	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8260B	9,10-Anthracenedione, -Amino-	N		0.0370	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8260B	Total TIC, Volatile	N			U
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	Alkane	N		0.0690	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	cycloalkane/alkene (RT=18.65)	N		0.0120	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	Naphthalene decahydro-methyl (RT=17.94)	N		0.00970	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	cycloalkane/alkene (RT=19.13)	N		0.0720	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	alkane (RT=18.01)	N		0.00810	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	cycloalkane/alkene (RT=20.29)	N		0.0110	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	alkane (RT=18.53)	N		0.0270	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	alkane (RT=18.43)	N		0.0610	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	Naphthalene Decahydro-Methyl (RT=18.2)	N		0.0160	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	Alkane (RT=17.46)	N		0.0150	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	alkane (RT=17.75)	N		0.0110	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8260B	unknown (RT=17.21)	N		0.0110	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	Unknown	N		0.860	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	C6 alkyl benzene (RT=19.34)	N		1.50	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	unknown (RT=19.77)	N		1.10	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	unknown (RT=19.6)	N		1.30	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	Unknown (RT=19.49)	N		0.960	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	unknown (RT=20.45)	N		1.10	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	C5 alkyl benzene/alkane (RT=18.55)	N		0.860	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	unknown (RT=19.66)	N		0.920	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	C6 alkyl benzene (RT=19.92)	N		1.90	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	C6 alkyl benzene (RT=19.11)	N		1.40	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	alkane (RT=19.24)	N		1.40	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	Unknown (RT=20.3) TIC	N		0.700	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	C5 alkyl benzene/cycloalkane (RT=18.96)	N		1.80	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8260B	1H-Indene-dihydro-trimethyl (RT=20.22)	N		1.20	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8260B	Carbon Dioxide	N		11.0	JB
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8260B	Unknown	N		0.00760	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Carbon Dioxide	N		13.0	JB
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Alkane	N		0.0150	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Hexachlorobutadiene	N		0.0460	J
LP-101-26-28	ACTD	26-28	11/2/2006	SO	SW8260B	Unknown (RT=3.5)	N		0.310	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Alkane	N		0.00800	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Carbon Dioxide	N		17.0	JB
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Alkane	N		0.0170	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-12-4-6	ACTD	4-6	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Carbon Dioxide	N		12.0	JB
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Hexachlorobutadiene	N		0.0160	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8260B	Carbon Dioxide	N		13.0	JB
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.0640	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8260B	Alkane	N		0.00550	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Carbon Dioxide	N		14.0	JB
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.00720	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Alkane	N		0.0130	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Naphthalene Decahydro-Pentamethyl	N		0.0180	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Unknown	N		0.00860	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Carbon Dioxide	N		6.50	JB
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8260B	Carbon Dioxide	N		10.0	JB
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Carbon Dioxide	N		18.0	JB
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8260B	Carbon Dioxide	N		11.0	JNB
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8260B	Hexachlorobutadiene	N		0.120	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8260B	Trichlorobenzene	N		0.00480	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8260B	Naphthalene, Chloro-	N		0.100	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	System Artifact	N		0.110	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Carbon Dioxide	N		15.0	JNB
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Unknown	N		0.00760	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Dimethyl Naphthalene	N		0.00600	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8260B	Unknown	N		7.60	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Carbon Dioxide	N		12.0	JB
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Alkane	N		0.00800	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Hexachlorobutadiene	N		0.110	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	System Artifact	N		0.100	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-6-4-6	ACTD	4-6	8/27/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Carbon Dioxide	N		12.0	JNB
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Hexachlorobutadiene	N		0.00780	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-8-10-12	ACTD	10-12	8/24/2001	SO	SW8260B	Total TIC, Volatile	N			U
LP-9-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Carbon Dioxide	N		16.0	JB
LP-9-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8260B	Total TIC, Volatile	N			U
MW-16D-13-15	ACTD	13-15	11/17/2006	SO	SW8260B	Unknown (RT=5.69)	N		0.450	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8260B	Unknown (RT=5.69)	N		0.370	J
MW-25D-10-12	ACTD	10-12	11/21/2006	SO	SW8260B	Unknown (RT=5.7)	N		1.00	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8260B	Naphthalene, Chloro- (RT=18.95)	N		0.750	J
PCA-1-0-.5	ACTD	0-2	7/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
PCA-1-0-.5	ACTD	0-2	7/17/2001	SO	SW8260B	System Artifact	N		0.220	J
PCA-1-4-6	ACTD	4-6	7/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
PCA-1-4-6	ACTD	4-6	7/17/2001	SO	SW8260B	System Artifact	N		0.0150	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Alkene	N		0.200	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Carbon Dioxide	N		8.40	JNB
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8260B	Carbon Dioxide	N		0.270	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	System Artifact	N		0.00780	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Carbon Dioxide	N		8.40	JNB
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Unknown	N		0.00870	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Anthracene Methyl	N		0.190	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Alkane	N		0.140	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Alkane	N		0.160	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Alkane	N		0.150	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Alkane	N		0.270	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.180	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Alkane	N		0.160	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Alkane	N		0.140	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
PCA-5-0.5-2	ACTD	0.5-2	9/7/2001	SO	SW8260B	System Artifact	N		0.00900	J
PCA-5-0.5-2	ACTD	0.5-2	9/7/2001	SO	SW8260B	Total TIC, Volatile	N			U
PCA-5-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Carbon Dioxide	N		8.10	JNB
PCA-5-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	System Artifact	N		0.0100	J
PCA-5-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Total TIC, Volatile	N			U
PCA-5-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Hexachlorobutadiene	N		0.00530	J
PCA-5-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Alkane	N		0.00640	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Carbon Dioxide	N		8.10	JNB
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Carbon Dioxide	N		4.70	JNB
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.00490	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8260B	Unknown	N		0.550	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8260B	C8H7CL	N		0.360	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8260B	C8H7CL	N		4.10	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8260B	Unknown	N		0.380	J
RR-10 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Alkane	N		0.0220	J
RR-10 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Unknown	N		0.00830	J
RR-10 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Benzene, -Trichloro-	N		0.0200	J
RR-10 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-11 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	System Artifact	N		0.0240	J
RR-11 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Benzene, (-Chloroethenyl)-	N		0.0100	J
RR-11 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-12 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Alkane	N		0.0100	J
RR-12 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Unknown	N		0.00970	J
RR-12 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-12 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Unknown	N		0.0220	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	System Artifact	N		0.0120	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Carbon Dioxide	N		7.30	JNB
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.0320	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8260B	C8H7CL	N		0.0260	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8260B	Alcohols	N		0.0590	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8260B	Hexachlorobutadiene	N		0.0350	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.0460	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8260B	Unknown	N		0.0490	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8260B	C12H22	N		0.0380	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8260B	Naphthalene Decahydro-Pentamethyl	N		0.140	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8260B	Unknown	N		0.0280	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8260B	Unknown	N		0.0800	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		6.80	JB
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8260B	System Artifact	N		0.0280	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		13.0	JNB
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8260B	Unknown	N		0.0100	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8260B	Carbon Dioxide	N		5.70	JNB
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-8-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Unknown	N		0.110	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Carbon Dioxide	N		0.300	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Isomer Of C22H14	N		0.0500	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.170	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.0970	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.590	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Unknown	N		0.0940	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Naphthalene Decahydro-Pentamethyl	N		0.300	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Unknown	N		0.0930	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Unknown	N		0.0800	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8260B	Unknown	N		0.0810	J
RR-9 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Alkane	N		0.0120	J
RR-9 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Unknown	N		0.0120	J
RR-9 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8260B	Total TIC, Volatile	N			U
SC-1	ACTD	0-1	8/21/2001	SO	SW8260B	System Artifact	N		0.0500	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
SC-2	ACTD	0-1	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
SC-3	ACTD	0-1	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
SC-3	ACTD	0-1	8/22/2001	SO	SW8260B	Unknown	N		0.00810	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Carbon Dioxide	N		7.60	JB
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Alkane	N		0.00650	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Trichlorobenzene	N		0.0110	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Total TIC, Volatile	N			U
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Unknown	N		0.00790	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8260B	Alcohols	N		0.300	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8260B	System Artifact	N		0.260	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8260B	Total TIC, Volatile	N			U
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8260B	Alkane	N		0.520	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.350	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.520	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8260B	Alcohols	N		0.410	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Carbon Dioxide	N		12.0	JB
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.00600	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Unknown	N		0.0100	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Alkane	N		0.120	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.0870	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Total TIC, Volatile	N			U
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Carbon Dioxide	N		10.0	JB
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	C9H18O	N		0.00800	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Unknown	N		0.00700	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Alkane	N		0.00970	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Total TIC, Volatile	N			U
SILO-B3-6-8	ACTD	6-8	9/6/2001	SO	SW8260B	Carbon Dioxide	N		5.80	JB
SILO-B3-6-8	ACTD	6-8	9/6/2001	SO	SW8260B	Total TIC, Volatile	N			U
SILO-B4-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Carbon Dioxide	N		10.0	JB
SILO-B4-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	System Artifact	N		0.0310	J
SILO-B4-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Unknown	N		0.0110	J
SILO-B4-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Alkane	N		0.00950	J
SILO-B4-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Unknown	N		0.0210	J
SILO-B4-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Total TIC, Volatile	N			U
SILO-B4-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Naphthalene Decahydro-Pentamethyl	N		0.0160	J
SILO-B4-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8260B	Alkane	N		0.00950	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Carbon Dioxide	N		6.90	JB
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	C4 Alkyl Benzene	N		0.0150	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	C10H16	N		0.00750	J
SPR-1-8-10	ACTD	8-10	9/5/2001	SO	SW8260B	Unknown	N		0.0540	J
SPR-1-8-10	ACTD	8-10	9/5/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-2A-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8260B	Unknown	N		25.0	J
SPR-2B-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8260B	Unknown	N		43.0	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-3 4-6	ACTD	4-6	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-4A-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8260B	Unknown	N		11.0	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.530	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8260B	Unknown	N		0.0140	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8260B	C3 Alkyl Benzene	N		0.0110	JN
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8260B	Unknown	N		0.00870	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8260B	Unknown	N		0.0860	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8260B	Cyclohexane	N		0.00790	JN
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-4C-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8260B	Carbon Dioxide	N		8.00	JB
SPR-4C-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8260B	Unknown	N		0.460	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Carbon Dioxide	N		11.0	JNB
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8260B	9,10-Anthracenedione, -Amino-Chloro-	N		0.0280	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8260B	Alkane	N		0.0480	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8260B	Alkane	N		0.0240	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8260B	Phenol, Nonyl-	N		0.0790	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8260B	Alkane	N		0.0290	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.100	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8260B	Benzene, 1,2-Dichloro-	N		0.0160	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8260B	Total TIC, Volatile	N			U
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8260B	Unknown	N		0.0120	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SPR-6-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8260B	Total TIC, Volatile	N			U
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Acetaldehyde	N		0.00840	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Alkene	N		0.0200	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.0130	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Alkane	N		0.00840	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Butane	N		0.00810	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Alkene	N		0.0130	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
ST-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Carbon Dioxide	N		6.10	JB
ST-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Total TIC, Volatile	N			U
ST-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Carbon Dioxide	N		4.50	JNB
ST-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Total TIC, Volatile	N			U
ST-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLN-2-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	1h-Indene-Dihydro-Methyl	N		0.0530	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Unknown	N		0.0340	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Benzothiophene	N		0.0360	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Unknown	N		0.0410	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	System Artifact	N		0.0240	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8260B	System Artifact	N		0.00750	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8260B	Carbon Dioxide	N		6.20	JB
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8260B	Total TIC, Volatile	FD	TLN-4 0-.5		U
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLN-5-4-6	ACTD	4-6	8/30/2001	SO	SW8260B	Carbon Dioxide	N		11.0	JB
TLN-5-4-6	ACTD	4-6	8/30/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8260B	Carbon Dioxide	N		0.00660	JB
TLS-10 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Alkane	N		0.0160	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Carbon Dioxide	N		10.0	JNB
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-2-6-8	ACTD	6-8	9/7/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8260B	Carbon Dioxide	N		18.0	JNB
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8260B	System Artifact	N		0.0200	J
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8260B	Unknown	N		0.0120	J
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.0200	J
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8260B	Methyl Naphthalene	N		0.0170	J
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8260B	Indane	N		0.0270	JN
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.0190	J
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8260B	Unknown	N		0.0150	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8260B	Carbon Dioxide	N		6.60	JNB
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-5-8-10	ACTD	8-10	9/26/2001	SO	SW8260B	Alkane	N		0.0420	J
TLS-5-8-10	ACTD	8-10	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8260B	Alkane	N		0.00910	J
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8260B	Alkane	N		0.00680	J
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8260B	Alkane	N		0.0100	J
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Alkane	N		0.00620	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Carbon Dioxide	N		7.70	JNB
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8260B	Total TIC, Volatile	N			U
TLS-9 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8260B	Total TIC, Volatile	N			U
WWT-1-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8260B	Total TIC, Volatile	N			U
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.0350	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Carbon Dioxide	N		14.0	JB
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.0400	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Alkane	N		0.0390	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Benzene, Trichloro	N		0.0440	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Total TIC, Volatile	N			U
WWT-2-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8260B	Carbon Dioxide	N		5.90	JNB
WWT-2-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8260B	Total TIC, Volatile	N			U
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		5.00	JNB
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Anthracene Methyl	N		0.210	J
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Cycloalkane/Alkene	N		0.140	J
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Alkane	N		0.0900	J
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Alkane	N		0.230	J
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Alkane	N		0.220	J
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Alkane	N		0.200	J
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Total TIC, Volatile	N			U
WWT-3-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8260B	Carbon Dioxide	N		11.0	JNB
WWT-3-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8260B	Carbon Dioxide	N		0.0110	J
WWT-3-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8260B	Total TIC, Volatile	N			U
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Carbon Dioxide	N		6.40	JNB
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Alkane	N		0.0150	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Unknown	N		0.00990	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.00800	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Alkane	N		0.00840	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Benzene, Tetrachloro	N		0.0180	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Alkane	N		0.0180	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Benzene, Trichloro-	N		0.0100	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Alkane	N		0.0120	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Benzene, 1,2-Dichloro	N		0.0180	JN
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8260B	Total TIC, Volatile	N			U
12K-B1-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8270C	Unknown	N		1.40	J
12K-B1-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
12K-B1-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8270C	Unknown	N		0.240	JB
12K-B1-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8270C	Unknown	N		0.400	JB
12K-B1-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.400	JB
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.60	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		5.10	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.40	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Cyclohexane Alkyl	N		0.950	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Benzene, 1,2,4-Trichloro-	N		0.770	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	C20H12	N		1.80	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.20	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.10	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.940	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.20	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.920	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.790	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.950	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.30	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.40	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		2.70	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Benzo[b]thiophene, Methyl-	N		0.840	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.820	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.880	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.10	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.890	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.780	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Unknown	N		1.30	J
12K-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Unknown	N		0.950	J
12K-B2-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.340	JB
12K-B2-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.310	JB
12K-B2-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8270C	Benzene, (-Chloroethenyl)-	N		0.290	JB
12K-B2-0.5-2	ACTD	0.5-2	9/6/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.450	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.10	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.740	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.280	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.200	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.600	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.310	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.840	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.200	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.720	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Unknown	N		0.320	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.450	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Unknown	N		0.370	JB
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Unknown	N		0.290	JB
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.200	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.330	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.320	J
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
12K-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.380	JB
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8270C	Unknown	N		0.920	J
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8270C	Unknown	N		0.200	JB
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8270C	Alkane	N		0.170	J
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8270C	Cyclohexane Alkyl	N		0.430	J
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8270C	Unknown	N		0.200	JB
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8270C	Unknown	N		0.470	JB
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8270C	System Artifact	N		0.290	JB
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8270C	Unknown	N		0.920	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.220	JB
150K-1-0.5-2	ACTD	0.5-2	9/10/2001	SO	SW8270C	Unknown	N		0.260	JB
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		16.0	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		6.80	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		30.0	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.880	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		9.30	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		4.50	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		12.0	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		1.30	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	C10H16	N		1.10	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		21.0	J
150K-1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	System Artifact	N		3.00	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	System Artifact	N		0.240	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		0.380	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.180	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.160	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	C18H12	N		0.180	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.210	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Anthracene Methyl	N		0.260	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.300	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Benzo[b]thiophene, Methyl-	N		0.270	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		1.20	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.320	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	System Artifact	N		0.320	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.240	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		0.190	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.380	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.520	JB
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		0.540	JB
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		0.340	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		0.360	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		0.330	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.220	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.420	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.200	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Naphthalene, Dichloro-	N		0.370	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		0.510	J
230-B1-0.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.220	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		2.00	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.210	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.280	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.300	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.360	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		1.50	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.260	JB
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.200	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Dimethyl Naphthalene	N		0.590	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	System Artifact	N		0.380	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Phenol, P-Tert-Butyl-	N		0.360	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Benzene, Chloroethenyl-	N		0.230	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Cycloalkane/Alkene	N		1.90	JB
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.260	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.390	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Phenol, 4-(tetramethylbutyl)	N		0.210	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.240	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.600	J
230-B10-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.420	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.170	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.240	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		1.10	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.320	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.340	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.210	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.180	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.270	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.370	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.310	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.580	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.280	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.300	JB
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.340	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Cycloalkane/Alkene	N		1.40	JB
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.190	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.190	JB
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.480	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.480	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.300	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.520	J
230-B10-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.400	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.380	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.230	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.270	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.230	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		1.10	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Isomer Of C15H12	N		0.280	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.470	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Isomer Of C16H14	N		0.600	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.910	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.310	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	C17H12	N		0.200	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.240	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.190	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		1.10	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Isomer Of C15H12	N		0.250	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.240	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.190	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.320	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.220	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.260	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.210	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.930	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.210	JB
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.240	JB
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.570	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.780	J
230-B11-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		1.40	JB
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.700	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.360	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	System Artifact	N		0.170	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Isomer Of C15H12	N		0.360	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.220	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.410	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.250	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.330	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.300	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.420	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Azulene, -Ethyl-Dimethyl-	N		0.190	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.230	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.570	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.280	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.290	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		1.60	JB
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.470	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.560	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.380	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.240	J
230-B11-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.290	JB
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		20.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		14.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		7.40	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		19.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		28.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		27.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		40.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		5.70	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Alkane	N		11.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Alkane	N		25.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		6.80	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	1,3-Dichlorobenzene	N		7.00	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		20.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		14.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		10.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		21.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Alkane	N		16.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Unknown	N		5.70	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Chrysene Methyl	N		12.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Alkane	N		40.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Benzenamine, Methyl-Nitro-	N		14.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Benzenamine, Methyl-Nitro-	N		49.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Alkane	N		74.0	J
230-B1-4-6	ACTD	4-6	10/2/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.630	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	1,2-Dichlorobenene	N		0.410	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		1.00	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.760	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	9,10-Anthracenedione, Amino-	N		0.380	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.170	JN
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		1.70	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.370	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.640	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	1-Amino-4-Bromoanthraquinone	N		0.350	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.310	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.350	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkene	N		0.540	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	System Artifact	N		0.160	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.330	JB
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.530	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.560	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.240	JB
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		2.50	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.200	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.160	J
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		1.80	JB
230-B2-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		2.60	J
230-B2-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		0.240	J
230-B2-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.340	J
230-B2-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.380	J
230-B2-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		1.30	JB
230-B2-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.160	J
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.250	J
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.330	J
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.280	J
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.350	J
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.190	J
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.260	J
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		1.60	JB
230-B3-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.330	JB
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		1.70	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.720	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	C15H12	N		0.330	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.390	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.270	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Phenol, 4-(tetramethylbutyl)-	N		0.730	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.260	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.300	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		1.10	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.310	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.290	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.240	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.380	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.270	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.790	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.230	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.550	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.440	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		1.70	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Benzenamine, Dichloro	N		0.380	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Cycloalkane/Alkene	N		1.20	JB
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.330	J
230-B3-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		2.00	J
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.390	J
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.370	J
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.210	J
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	System Artifact	N		0.400	J
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Cycloalkane	N		0.610	J
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		1.40	J
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		1.30	J
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		1.10	JB
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.400	J
230-B4-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	1,1'-Biphenyl, '-Hexachloro(PCB)	N		0.200	J
230-B4-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Benzofuran, -Dihydro-Methyl-Phenyl	N		0.250	J
230-B4-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.200	J
230-B4-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Cycloalkane/Alkene	N		1.60	JB
230-B4-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B4-1.5-2	ACTD	1.5-2	8/30/2001	SO	SW8270C	Unknown	N		0.280	JB
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	1h-Indene-Dihydro-Methyl-	N		0.220	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.190	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		2.40	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.300	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.280	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	9,10-Anthracenedione, -Hydroxy-	N		0.520	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	C18H12	N		1.30	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.290	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Carbon Dioxide	N		0.270	JB
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Anthracene Chloro	N		0.340	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Phenol, (tetramethylbutyl)-	N		2.40	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.260	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		11.0	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.20	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.00	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Isomer Of C15H12	N		0.260	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		12.0	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.390	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.30	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.870	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.390	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Naphthalene 1-Methyl	N		0.280	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Naphthalene, Dichloro-	N		0.210	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Carbon Dioxide	N		0.350	JB
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.230	J
230-B5-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Naphthalene Dimethyl	N		0.190	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.230	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.180	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.280	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.170	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.300	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Unknown	N		1.40	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.180	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	C14H8S2	N		0.900	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.340	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Dibenzofuran, -Methyl-	N		0.360	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.230	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Unknown	N		0.160	JB
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	C20H12	N		1.10	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Phenol, 4-(tetramethylbutyl)-	N		0.280	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.300	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.930	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	C14H22O	N		0.280	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.150	J
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		7.90	JB
230-B5-1.5-2	ACTD	1.5-2	9/13/2001	SO	SW8270C	Unknown	N		0.230	JB
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	C10H18	N		0.390	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.550	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.480	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.430	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.440	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.600	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Methyl Naphthalene	N		0.610	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.550	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.610	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.660	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.390	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Isomer Of C22H12	N		0.440	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.510	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.460	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		1.10	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.430	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		1.60	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.460	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.10	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.460	J
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B6 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.410	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Isomer Of C20H12	N		7.00	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Isomer Of C22H12	N		0.350	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		12.0	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	9,10-Anthracenedione-Diamino	N		0.510	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.280	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.520	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.160	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	C20H12	N		1.20	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		3.50	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		2.20	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.390	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	C12H8O	N		0.180	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		3.40	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		100.	JB
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		3.00	JB
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.200	J
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.430	JB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
230-B6 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.40	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.40	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.30	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.40	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.20	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.20	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.70	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.80	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		1.60	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.60	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.50	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		2.40	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		1.20	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		2.00	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		1.40	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.50	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.60	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.80	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		1.70	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		2.40	J
230-B7 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.170	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.220	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.380	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.180	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.860	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.190	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.370	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.190	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Methyl Naphthalene	N		0.640	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.230	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.410	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	System Artifact	N		0.230	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.200	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.170	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.250	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.430	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.170	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		2.80	JB
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Benzene, Chloroethenyl-	N		0.180	J
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.390	JB
230-B7 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Butane	N		0.200	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Isomer Of C20H12	N		0.330	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.250	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.250	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.220	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.210	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.320	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.210	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.270	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.280	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.200	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.240	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.250	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.320	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		0.760	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Isomer Of C13H9N	N		0.200	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.220	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.390	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.220	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.230	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.230	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.190	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.260	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Benzene, (-Chloroethenyl)-	N		0.550	J
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.510	JB
230-B8 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		3.30	JB
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.280	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	C8H6S	N		0.390	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Dimethylanthracene	N		0.480	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	C17H12	N		0.470	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.660	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Isomer Of C20H12	N		0.580	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.60	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.640	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	9,10-Anthracenedione, Diamino-	N		0.500	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.920	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.360	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.460	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.460	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.280	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.610	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.850	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.310	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.810	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.460	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.460	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.500	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.520	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.320	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.690	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.490	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Trichlorobenzene	N		0.450	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.590	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.420	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.260	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.570	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.240	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Phenol, Nonyl-	N		0.250	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.30	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.560	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.550	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.00	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.290	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Trimethyl Naphthalene	N		0.420	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.400	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Dibenzofuran, -Methyl-	N		0.240	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Naphthalene Dimethyl	N		0.480	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.530	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.760	JB
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Naphthalenol	N		0.290	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Phenol, 4-(tetramethylbutyl)	N		0.390	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		2.70	JB
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.240	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.40	J
230-B9 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Dimethyl Naphthalene	N		0.380	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.150	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.240	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.170	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Azulene, -Ethyl-Dimethyl-	N		0.160	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.170	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.200	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.180	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.250	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		0.240	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.200	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.160	J
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	N		2.20	JB
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Benzene, Chloroethenyl-	N		0.340	JB
230-B9 1.5-2	ACTD	1.5-2	8/22/2001	SO	SW8270C	Benzene, (-Chloroethenyl)-	N		0.420	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Alkane	N		0.430	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		0.340	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		2.00	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		0.510	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		0.170	JB
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Methyl Naphthalene	N		0.340	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Alkane	N		0.330	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Alkane	N		0.170	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Dibenzofuran, -Methyl-	N		0.260	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Alkane	N		0.600	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Isomer Of C15H12	N		1.10	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	C8H6S	N		4.80	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		1.10	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		0.160	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		0.280	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		0.180	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	C9H18O	N		1.60	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		0.480	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		1.70	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		0.180	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Unknown	N		0.410	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.50	J
231-B1-0-0.5	ACTD	0-0.5	10/5/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B10-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.180	J
231-B10-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.270	JB
231-B10-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
231-B10-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Carbonyl Sulfide	N		0.400	JB
231-B10-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.320	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Alkane	N		0.190	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		0.320	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Alkane	N		0.290	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		1.90	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Alkane	N		0.220	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		0.560	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		0.370	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		0.290	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.290	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		0.220	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		5.10	JB
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Benzene, Pentachloro-	N		0.200	J
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B11-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		0.470	JB
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Phenol, Nonyl-	N		0.390	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Alkane	N		0.210	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Unknown	N		0.170	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		4.80	JB
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Unknown	N		0.410	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Alkane	N		0.440	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Phenanthrene Tetramethyl	N		0.420	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Alkane	N		0.300	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Unknown	N		0.180	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Phenol, Nonyl-	N		0.430	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	1,1'-Biphenyl, -Heptachloro(PCB)	N		0.260	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Alkane	N		0.320	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.250	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Alkane	N		0.390	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Alkane	N		0.190	J
231-B11-8-10	ACTD	8-10	9/19/2001	SO	SW8270C	Alkane	N		0.500	JB
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Anthracene Methyl	N		0.400	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.180	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.160	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	N		0.240	JB
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.200	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.360	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.260	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.210	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.460	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C22H12	N		0.380	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.410	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.150	JB
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.280	J
231-B12-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		3.20	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	C20H12	N		1.50	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		1.50	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Alkane	N		1.70	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Alkane	N		2.30	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		3.00	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		3.00	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		2.30	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Trichlorobenzene	N		7.00	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Alkane	N		5.20	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		4.60	JB
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		2.20	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Cycloalkane/Alkene	N		45.0	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Alkane	N		1.90	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Cycloalkane/Alkene	N		4.00	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Alkane	N		6.20	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		2.00	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Benzene, Pentachloronitro-	N		10.0	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	1h-Indene-Dihydro-Ethyl	N		3.20	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		2.00	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		6.90	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Chloroaniline	N		2.60	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		2.00	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Alkane	N		12.0	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Benzene, -Tetrachloro-	N		8.20	J
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B13-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		13.0	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Unknown	N		1.00	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Alkane	N		0.430	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Alkane	N		4.40	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Alkane	N		0.830	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Alkane	N		0.430	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Alkane	N		0.510	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Unknown	N		0.430	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Phenol, Nonyl-	N		0.720	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Phenol Nonyl	N		0.720	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Unknown	N		0.480	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Phenol, Nonyl-	N		4.90	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Cycloalkane/Alkene	N		1.30	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Alkane	N		5.40	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Benzenamine, Methyl-Nitro-	N		4.20	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Phenol, Nonyl-	N		2.70	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Unknown	N		2.00	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Unknown	N		1.00	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Unknown	N		0.790	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Alkane	N		0.490	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Naphthalene Trimethyl	N		2.40	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Phenol, 4-(tetramethylbutyl)	N		2.00	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Benzene Tetrachloro	N		1.40	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Alkane	N		1.20	J
231-B13-8-10	ACTD	9-10	9/27/2001	SO	SW8270C	Unknown	N		2.40	J
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Alkane	N		0.250	J
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Anthracene Methyl	N		0.210	J
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Alkane	N		0.170	J
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Cyclohexane Alkyl	N		0.200	J
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		0.220	J
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		3.70	JB
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Phenanthrene Tetramethyl	N		0.450	J
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown	N		0.370	JB
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Unknown Acid	N		0.250	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
231-B14-0-0.5	ACTD	0-0.5	9/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.900	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		1.30	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Isomer Of C20H12	N		2.90	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	System Artifact	N		1.50	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.780	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.640	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.950	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		3.60	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	C14H8S2	N		2.00	JN
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.740	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.900	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.680	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Unknown	N		1.40	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Unknown	N		1.70	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Unknown	N		1.60	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		3.70	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		1.00	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Isomer Of C15H12	N		1.90	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		1.40	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		1.70	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		2.20	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Unknown	N		2.10	JB
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		1.20	J
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Unknown	N		0.540	JB
231-B2-0.5-2	ACTD	0.5-2	8/22/2001	SO	SW8270C	Alkane	N		0.660	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.940	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		5.80	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.830	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.10	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.800	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.60	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.830	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.30	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		5.80	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		2.70	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.780	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.990	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Trichlorobenzene	N		0.980	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		1.50	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.650	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.690	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.710	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.850	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.690	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		1.20	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.750	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl, -Methyl-	N		1.10	J
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.650	JB
231-B2-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		2.20	JB
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.990	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Benzene, -Trichloro-	N		1.60	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.390	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.360	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		2.40	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	System Artifact	N		1.40	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.430	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Dimethylbenzenamine	N		0.790	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.900	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.10	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	C14H8S2	N		0.700	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.910	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.360	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.520	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.560	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.10	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.670	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	System Artifact	N		0.530	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.490	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.450	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.360	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Benzenamine, Dichloro	N		0.610	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.440	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	System Artifact	N		2.20	J
231-B3-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.250	JB
231-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		1.30	JB
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Unknown	N		0.210	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Carbon Dioxide	N		0.170	JB
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Phenol, -(2-Phenylethenyl)-, (e)-	N		0.560	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Unknown	N		0.230	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Alkane	N		0.210	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	9,10-Anthracenedione, Amino-	N		0.180	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Alkane	N		0.410	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Unknown	N		0.160	JB
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Phenol, Nonyl-	N		0.170	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	System Artifact	N		0.570	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.210	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Alkane	N		0.250	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Unknown	N		0.440	JB
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Phenol, 4-(tetramethylbutyl)	N		0.180	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Naphthalenol	N		0.270	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.240	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Unknown	N		0.230	J
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B4-6-8	ACTD	6-8	9/27/2001	SO	SW8270C	Unknown	N		0.180	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	Unknown	N		0.280	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.460	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	C17H12	N		0.210	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.260	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	Alkane	N		0.450	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	9h-Fluorene Methyl	N		0.590	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		4.90	JB
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	Unknown	N		0.260	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	Unknown	N		0.260	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	Alkane	N		0.270	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.840	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	1,1'-Biphenyl, -Heptachloro(PCB)	N		0.270	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	Chrysene Methyl	N		0.630	J
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	Alkane	N		0.470	JB
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B5-0.5-2	ACTD	0.5-2	9/19/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.210	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		8.60	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		1.30	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Unknown	N		2.30	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		0.920	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		0.640	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		0.840	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Unknown	N		1.80	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		0.580	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		1.20	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		0.810	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		1.00	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Unknown	N		2.20	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	C8H7CL	N		0.560	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Benzenamine, Dichloro	N		0.700	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		0.950	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	C4 Alkyl Benzene	N		0.850	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Naphthalene Dimethyl	N		0.630	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Dibenzofuran, -Methyl-	N		0.750	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		0.660	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		0.880	J
231-B6-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Phenol, Nonyl-	N		0.620	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.460	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.310	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.950	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.500	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.840	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.940	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.40	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.260	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.450	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	N		1.00	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.280	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.420	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.790	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.880	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.630	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.240	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.20	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.350	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Phosphoric Acid, Tris(-Methylphen	N		0.570	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.510	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.290	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	N		0.360	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.250	J
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.250	JB
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
231-B6-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.340	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		2.60	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		6.60	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		3.60	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		10.0	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		2.20	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		9.00	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		2.20	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		3.60	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		2.70	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Trichlorobenzene	N		2.40	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		2.70	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		9.20	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		4.10	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Isomer Of C20H12	N		3.40	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		2.30	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		2.30	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Isomer Of C26H48	N		2.70	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		7.20	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		7.90	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	C14H12S	N		2.60	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		3.00	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		3.00	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		3.50	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		3.80	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		11.0	J
231-B7-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Unknown	N		5.50	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		10.0	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Unknown	N		4.60	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		8.70	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Unknown	N		4.60	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Unknown	N		4.50	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkyl Benzene	N		6.40	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		8.80	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Unknown	N		5.50	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkyl Benzene	N		4.20	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Phenol Nonyl	N		8.80	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Unknown	N		8.20	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		4.90	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		5.00	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		13.0	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		6.60	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Unknown	N		4.30	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		5.40	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkane	N		5.10	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Phenol, -(-Tetramethylbutyl)-	N		8.90	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Naphthalenecarboxylic Acid	N		6.20	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		8.10	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkyl Benzene	N		4.10	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Unknown	N		5.10	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N		164.	J
231-B8-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Alkyl Benzene	N		7.90	J
231-B8-8-10	ACTD	8-10	9/27/2001	SO	SW8270C	Alkane	N		39.0	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
231-B8-8-10	ACTD	8-10	9/27/2001	SO	SW8270C	9,10-Anthracenedione, 1-Amino-Chloro	N		23.0	J
231-B8-8-10	ACTD	8-10	9/27/2001	SO	SW8270C	9,10-Anthracenedione, 1-Amino-Chloro	N		16.0	J
231-B8-8-10	ACTD	8-10	9/27/2001	SO	SW8270C	Alkane	N		18.0	J
231-B8-8-10	ACTD	8-10	9/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B8-8-10	ACTD	8-10	9/27/2001	SO	SW8270C	Benzene, Tetrachloro-	N		38.0	J
231-B8-8-10	ACTD	8-10	9/27/2001	SO	SW8270C	Alkane	N		35.0	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Alkane	N		0.310	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Unknown	N		0.350	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Unknown	N		0.310	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	9,10-Anthracenedione, Diamino-	N		0.780	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Alkane	N		0.500	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Unknown	N		1.60	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Unknown	N		0.370	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.400	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Naphthalene Trimethyl	N		1.10	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Biphenyl	N		0.380	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Phenol, Nonyl-	N		2.40	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	C10H8O	N		3.60	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Unknown	N		0.290	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Unknown	N		0.410	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Unknown	N		2.00	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Alkane	N		1.50	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Alkane	N		2.30	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Phenol, 4-(tetramethylbutyl)	N		0.420	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Unknown	N		0.380	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Naphthalenol	N		2.10	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Nonylphenol	N		3.60	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Unknown	N		1.30	J
231-B9-0.5-2	ACTD	0.5-2	9/27/2001	SO	SW8270C	Phenol, Nonyl-	N		4.20	J
231-B9-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Octachloro(PCB)	N		6.40	J
231-B9-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Phenol, 4-(tetramethylbutyl)	N		1.40	J
231-B9-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		1.50	J
231-B9-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		2.00	J
231-B9-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.20	J
231-B9-0-0.5	ACTD	0-0.5	9/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Alkane	N		0.340	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1-Amino-4-Bromoanthraquinone	N		0.230	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.900	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.220	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.490	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.750	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.380	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.770	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.220	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.620	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.570	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.430	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.360	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.220	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.400	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.220	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.220	J
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Unknown	N		0.610	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Unknown	N		0.180	JB
240-1-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Unknown	N		0.180	JB
240-1-8-10	ACTD	8-10	10/1/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		2.40	JB
240-1-8-10	ACTD	8-10	10/1/2001	SO	SW8270C	Unknown	N		0.200	JB
240-1-8-10	ACTD	8-10	10/1/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
5K-B1-0-0.5	ACTD	0-0.5	10/1/2001	SO	SW8270C	Unknown	N		1.00	J
5K-B1-0-0.5	ACTD	0-0.5	10/1/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		0.440	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.440	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Phosphoric Acid, Tris(-Methylphenyl) Es	N		0.380	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		0.360	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.670	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.370	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Isomer Of C22H12	N		0.460	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		1.10	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.400	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Methyl Naphthalene	N		0.590	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.420	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	1-Amino-4-Bromoanthraquinone	N		1.90	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Phosphoric Acid, Tris(-Methylphenyl) Es	N		0.450	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.350	J
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.710	JB
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.420	JB
5K-B2-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Unknown	N		0.260	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Alkane	N		0.620	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Unknown	N		0.470	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Alkane	N		0.680	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Alkane	N		0.250	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Unknown	N		0.240	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Unknown	N		1.40	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Alkane	N		0.260	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Unknown	N		0.280	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Anthracene Methyl	N		0.370	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Unknown	N		0.560	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Unknown	N		0.540	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	System Artifact	N		0.240	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Unknown	N		0.600	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Anthracene Methyl	N		0.380	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.370	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Alkane	N		0.920	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Unknown	N		0.290	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Alkane	N		0.350	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Phenylnaphthalene	N		0.380	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Alkane	N		0.290	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	9,10-Anthracenedione, -Hydroxy-	N		0.450	J
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
5K-B2-8-10	ACTD	8-10	8/31/2001	SO	SW8270C	Unknown	N		0.820	JB
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Cycloalkane/Alkene	N		4.00	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.200	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.210	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.440	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Alkane	N		2.40	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.700	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Unknown	N		0.580	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.200	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.460	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.840	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.440	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Unknown	N		0.690	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.220	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.420	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1-Amino-4-Bromoanthraquinone	N		0.730	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.620	J
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Unknown	N		0.220	JB
5K-B3-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Unknown	N		0.230	JB
5K-B4-0-0.5	ACTD	0-0.5	10/1/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
5K-B4-0-0.5	ACTD	0-0.5	10/1/2001	SO	SW8270C	Benzenamine, Dichloro	N		1.30	J
5K-B4-0-0.5	ACTD	0-0.5	10/1/2001	SO	SW8270C	Benzenamine, Dichloro	N		3.70	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Unknown	N		20.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Alkane	N		9.20	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Anthracenamine	N		13.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		19.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Alkane	N		12.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Alkane	N		15.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Phenol, (tetramethylbutyl)-	N		21.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Alkane	N		28.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Alkane	N		9.20	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Naphthalene, Dichloro-	N		22.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Alkane	N		10.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Phenol Nonyl	N		13.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Alkane	N		10.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Alkane	N		10.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Alkane	N		17.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Unknown	N		9.30	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Alkane	N		9.30	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Unknown	N		11.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Unknown	N		30.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Unknown	N		19.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Isomer Of C15H12	N		15.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Alkane	N		30.0	J
5K-B4-4-6	ACTD	4-6	10/1/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		1.10	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		12.0	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Isomer Of C15H12	N		6.70	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		1.40	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		1.30	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		6.40	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		1.30	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		71.0	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		1.80	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	C8H6S	N		4.40	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		8.40	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		1.50	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		2.20	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	C14H8S2	N		18.0	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		22.0	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Naphthalene, Trichloro-	N		1.80	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	C20H12	N		3.80	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		2.20	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	1,1'-Biphenyl,Octachloro(PCB)	N		5.60	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		2.10	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		4.00	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		1.10	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Naphthalene, Dichloro-	N		9.40	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Naphthalene Trimethyl	N		1.00	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Naphthalene Trimethyl	N		1.00	J
5K-B5-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Naphthalene Trimethyl	N		1.10	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Naphthalene, Dichloro-	N		0.650	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Phenanthrene Dimethyl	N		0.780	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		0.510	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Cycloalkane/Alkene	N		11.0	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		0.540	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		0.710	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		1.70	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		0.500	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		7.90	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		0.600	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		0.910	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Isomer Of C20H12	N		2.70	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		1.00	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		4.20	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		95.0	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		0.580	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		1.60	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		0.620	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Benzenamine, Methyl-Nitro-	N		0.440	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Benzenamine, Dichloro	N		2.70	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Chloroaniline	N		0.520	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Naphthalenol	N		2.90	J
5K-B5-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.530	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.600	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.860	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		1.40	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.10	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		14.0	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Isomer Of C22H14	N		0.630	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	C22H12	N		1.30	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	1,1'-Biphenyl, -Heptachloro(PCB)	N		1.30	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Isomer Of C17H12	N		18.0	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		12.0	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		1.30	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		22.0	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	C14H10	N		0.790	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.580	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		1.30	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		7.10	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.50	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.620	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		3.20	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Naphthalene, Dichloro-	N		1.30	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		29.0	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.580	JB
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.700	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Naphthalene, Dichloro-	N		6.50	J
AB-1-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		3.50	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Alkane	N		4.40	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.50	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.780	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Unknown	N		1.50	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Alkane	N		0.780	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Alkane	N		1.80	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Unknown	N		0.700	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Alkane	N		1.70	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	C17H12O	N		2.10	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Unknown	N		1.00	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Unknown	N		1.00	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Alkane	N		0.450	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Dimethylbenzenamine	N		3.00	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		2.20	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Methyl Naphthalene	N		0.440	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Isomer Of C15H12	N		0.600	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.50	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	C14H8S2	N		2.90	JN
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Unknown	N		0.640	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Unknown	N		1.00	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Unknown	N		0.560	J
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
AB-2-0.5-2	ACTD	0.5-2	9/4/2001	SO	SW8270C	Unknown	N		1.00	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		8.30	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.200	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.210	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.440	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.780	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.250	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.580	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	C10H16	N		0.320	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.410	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.870	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		4.30	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Cyclohexane Alkyl	N		0.280	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.10	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.440	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.220	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		5.40	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.260	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.280	JB
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.600	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.230	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Benzene, Dichloro-Nitro-	N		0.270	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.520	J
AB-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.260	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	C20H12	N		0.530	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		0.190	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		0.310	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.180	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.190	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		0.410	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		0.190	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.420	JB
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		0.560	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.820	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		0.760	J
ADN-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		0.260	JN
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	N		6.80	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Unknown	N		4.90	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	N		3.00	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	N		1.70	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Unknown	N		2.40	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		2.20	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	N		3.40	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Cycloalkane/Alkene	N		1.70	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		4.20	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		2.70	JN
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	N		2.70	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Anthracene Methyl	N		4.90	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Isomer Of C15H12	N		4.40	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	N		4.80	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Benzenamine, Dichloro	N		2.90	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Indene	N		1.40	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Benzene Chloro-Dimethyl	N		2.00	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	N		2.50	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Unknown	N		3.80	J
ADN-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	N		5.10	J
ADN-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.490	JB
ADN-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADN-2-10-11	ACTD	10-11	9/27/2001	SO	SW8270C	Unknown	N		1.90	J
ADN-2-10-11	ACTD	10-11	9/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADN-2-10-11	ACTD	10-11	9/27/2001	SO	SW8270C	Unknown Acid	N		0.220	J
ADN-2-10-11	ACTD	10-11	9/27/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.220	JB
ADS-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		1.10	J
ADS-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		1.20	J
ADS-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		2.00	J
ADS-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		1.80	J
ADS-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-10-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Alkane	N		1.20	J
ADS-10-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Alkane	N		0.170	J
ADS-10-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.200	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=24.16)	N		0.290	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=23.69)	N		0.170	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Unknown (RT=20.26) TIC	N		0.160	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=25.31)	N		0.330	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=24.93)	N		0.610	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=23.25)	N		0.300	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		130.	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Unknown (RT=23.15)	N		0.180	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Unknown (RT=25.78)	N		0.470	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=23.78)	N		0.170	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.20	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Unknown (RT=24.69)	N		2.10	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=24.5)	N		0.180	J
ADS-101-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	system artifact (RT=2.7)	N		0.200	J
ADS-101-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		120.	J
ADS-101-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.10	J
ADS-101-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	system artifact (RT=2.71)	N		0.190	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	unknown (RT=20.28)	N		0.150	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	Dibenzopyrene (RT=23.95)	N		0.500	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	unknown (RT=23.74)	N		0.590	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	system artifact (RT=2.71)	N		0.170	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	unknown (RT=18.63)	N		0.170	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	Dibenzopyrene (RT=22.38)	N		0.450	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	Dibenzopyrene (RT=21.99)	N		0.750	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	unknown PAH substance (RT=21.43)	N		0.150	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	Unknown Phthalate (RT=23.64) TIC	N		0.670	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	unknown (RT=24.96)	N		0.500	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	unknown (RT=25.86)	N		0.180	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	unknown (RT=23.28)	N		0.290	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	Unknown (RT=25.23)	N		0.160	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.20	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	Unknown (RT=20.46)	N		0.250	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	Unknown (RT=19.59)	N		0.330	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		120.	J
ADS-102-0-1.5	ACTD	0-2	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.180	J
ADS-102-7-8	ACTD	4-8	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		130.	J
ADS-102-7-8	ACTD	4-8	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.260	J
ADS-102-7-8	ACTD	4-8	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.30	J
ADS-102-7-8	ACTD	4-8	12/5/2006	SO	SW8270C	system artifact (RT=8.06)	N		0.200	J
ADS-10-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Dimethylanthracene	N		0.270	J
ADS-10-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Alkane	N		0.300	J
ADS-10-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Alkane	N		0.190	J
ADS-10-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Azulene, -Ethyl-Dimethyl-	N		0.620	J
ADS-10-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Unknown	N		0.720	J
ADS-10-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Benzenamine, Dichloro	N		4.70	J
ADS-10-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Alkane	N		0.830	J
ADS-10-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-10-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Chloroaniline	N		0.200	J
ADS-10-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	C10H14O	N		0.320	J
ADS-11-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.220	J
ADS-11-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Alkane	N		0.240	J
ADS-11-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Isomer Of C15H12	N		0.150	J
ADS-11-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	C15H9N	N		0.410	J
ADS-11-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Unknown	N		0.450	J
ADS-11-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Isomer Of C20H12	N		1.90	J
ADS-11-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-12-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
ADS-12-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.280	J
ADS-12-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.220	J
ADS-12-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.560	J
ADS-12-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.540	J
ADS-12-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.180	J
ADS-12-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-12-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.190	JB
ADS-12-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.540	JNB
ADS-2-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-2-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.200	J
ADS-2-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Unknown	N		0.850	J
ADS-2-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.300	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.560	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.700	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.980	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		1.00	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.220	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.160	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	System Artifact	N		0.400	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Alkane	N		0.220	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Phenol, Nonyl-	N		1.10	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.350	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Phenol, (tetramethylbutyl)-	N		1.40	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Alkane	N		1.10	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.610	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.410	J
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-3-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		1.50	J
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.300	J
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		0.200	J
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.290	J
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Alkane	N		1.30	J
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Unknown	N		4.50	J
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Unknown	N		2.40	J
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Alkane	N		0.600	J
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Alkane	N		0.190	J
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Unknown	N		6.60	J
ADS-4-0-0.5	ACTD	0-2	7/18/2001	SO	SW8270C	Unknown	N		0.880	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Unknown	N		1.50	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Isomer Of C15H12	N		2.10	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Unknown	N		4.30	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Unknown	N		7.60	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Unknown	N		6.10	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Unknown	N		6.30	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Anthracene, Chloro-	N		4.70	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Isomer Of C15H12	N		1.90	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Alkane	N		8.00	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Alkane	N		3.00	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	C14H12	N		1.70	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		3.70	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Unknown	N		2.30	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Naphthalene Methyl	N		1.70	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Alkane	N		1.50	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Isomer Of C15H12	N		1.70	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Unknown	N		2.90	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Dimethylanthracene	N		2.10	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Unknown	N		3.20	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Alkane	N		2.00	J
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-4-12-14	ACTD	12-14	7/18/2001	SO	SW8270C	Unknown	N		2.50	J
ADS-5-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	N		0.210	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	C20H14O2	N		0.180	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	N		0.510	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.600	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Isomer Of C20H12	N		0.440	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.220	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.580	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Isomer Of C22H12	N		0.250	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.180	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	N		0.420	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	N		0.210	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	N		0.750	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Benzene, -Trichloro-	N		0.380	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Chloroaniline	N		0.250	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.160	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	C12H8O	N		0.420	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.230	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	N		0.340	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	N		0.160	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	N		1.30	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.220	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.340	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	N		0.160	J
ADS-5-4-6	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	N		0.220	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Alkane	N		1.40	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Unknown	N		0.370	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Alkane	N		0.220	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Unknown	N		0.440	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Alkane	N		0.380	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	C16H14	N		0.520	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Unknown	N		3.60	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Alkane	N		0.440	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Unknown	N		2.20	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Benzene Trichloro	N		1.30	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Benzene Tetrachloro	N		1.30	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Alkane	N		0.190	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Alkane	N		0.130	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Unknown	N		3.20	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Alkane	N		0.140	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Phenol, Nonyl-	N		0.160	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Benzenamine, Dichloro	N		0.160	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Alkane	N		0.180	J
ADS-6-0.5-2	ACTD	0.5-2	7/18/2001	SO	SW8270C	Unknown	N		0.420	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Alkane	N		3.30	J
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		8.80	J
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Alkane	N		1.50	J
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Alkane	N		1.30	J
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Alkane	N		6.00	J
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-6-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Alkane	N		0.850	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Isomer Of C15H12	N		1.50	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.60	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		2.60	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Isomer Of C15H12	N		1.50	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Phenol, Nonyl-	N		1.40	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.60	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.30	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		1.40	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		2.20	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Isomer Of C16H14	N		1.50	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		2.70	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		3.00	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	9h-Fluorene, -Dimethyl-	N		2.00	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		16.0	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		3.10	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		2.00	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		3.10	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		2.80	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		3.80	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.80	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		1.60	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		2.60	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.50	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.70	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Trimethyl Naphthalene	N		1.60	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.50	J
ADS-7-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Cyclohexane Alkyl	N		1.40	J
ADS-8-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Alkane	N		0.360	J
ADS-8-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-8-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	N		0.190	J
ADS-8-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		5.90	JB
ADS-8-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Isomer Of C16H14	N		0.530	J
ADS-8-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Alkyl Benzene	N		0.170	J
ADS-8-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Anthracene Methyl	N		0.230	JB
ADS-8-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Unknown	N		0.180	J
ADS-8-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.200	J
ADS-8-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Alkane	N		0.220	JB
ADS-8-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Dimethyl Naphthalene	N		0.270	J
ADS-8-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Benzene, Pentachloro-	N		0.170	J
ADS-8-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Unknown	N		0.200	J
ADS-8-4-6	ACTD	4-6	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ADS-9-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.220	J
ADS-9-0-0.5	ACTD	0-0.5	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8270C	Alkane	FD	EC-4	0.220	J
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8270C	Unknown	FD	EC-4	0.180	J
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8270C	Unknown	FD	EC-4	0.440	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8270C	Unknown	FD	EC-4	0.320	JB
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8270C	Cycloalkane/Alkene	FD	EC-4	0.200	JB
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8270C	Unknown	FD	EC-4	0.310	J
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8270C	System Artifact	FD	EC-4	0.180	J
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8270C	Unknown	FD	EC-4	1.70	JB
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8270C	Unknown	FD	EC-4	0.200	J
BLIND DUP	ACTD	0-0	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	EC-4		U
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.400	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	System Artifact	N		0.260	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Alkane	N		0.710	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	N		0.220	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.360	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	N		1.10	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	N		1.60	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	N		0.260	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	N		0.470	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	N		1.20	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	N		0.260	J
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-10-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown Acid	N		0.350	J
BSL-1-0-1	ACTD	0-1	9/20/2001	SO	SW8270C	Alkane	N		0.190	J
BSL-1-0-1	ACTD	0-1	9/20/2001	SO	SW8270C	Unknown	N		0.220	J
BSL-1-0-1	ACTD	0-1	9/20/2001	SO	SW8270C	Unknown	N		0.180	J
BSL-1-0-1	ACTD	0-1	9/20/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		3.70	JB
BSL-1-0-1	ACTD	0-1	9/20/2001	SO	SW8270C	Unknown	N		1.60	J
BSL-1-0-1	ACTD	0-1	9/20/2001	SO	SW8270C	Benzothiophene	N		0.170	J
BSL-1-0-1	ACTD	0-1	9/20/2001	SO	SW8270C	Alkane	N		0.320	J
BSL-1-0-1	ACTD	0-1	9/20/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-1-0-1	ACTD	0-1	9/20/2001	SO	SW8270C	Unknown	N		0.330	JB
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Alkane	N		0.550	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Alkane	N		0.240	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		1.00	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Alkane	N		0.270	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Hexachlorobutadiene	N		0.230	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		0.280	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Alkane	N		0.290	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		0.280	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		0.250	JB
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		0.360	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	C4 Alkyl Benzene	N		0.290	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		0.570	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		7.00	JB
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		1.20	J
BSL-11-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		0.260	J
BSL-12-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		6.00	JB
BSL-12-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Alkane	N		0.190	JB
BSL-12-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-12-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		0.350	J
BSL-12-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Alkene	N		0.160	JB
BSL-12-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		0.250	J
BSL-12-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.160	JB
BSL-1-4-6	ACTD	4-6	9/20/2001	SO	SW8270C	Unknown	N		0.440	JB
BSL-1-4-6	ACTD	4-6	9/20/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
BSL-2-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	N		0.280	J
BSL-2-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	N		0.230	J
BSL-2-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	N		0.480	J
BSL-2-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.500	J
BSL-2-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	N		1.90	J
BSL-2-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Alkane	N		0.540	J
BSL-2-0-1	ACTD	0-1	9/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Unknown	N		0.160	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	C14H12	N		0.170	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Alkane	N		0.460	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Isomer Of C22H12	N		0.180	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Phenol, (tetramethylbutyl)-	N		0.150	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Alkane	N		1.60	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Isomer Of C22H12	N		0.160	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Unknown	N		0.190	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Cycloalkane	N		0.770	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Unknown	N		0.220	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Unknown	N		0.330	JB
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Unknown	N		0.200	J
BSL-3-0-0.5	ACTD	0-0.5	9/20/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-4-0-1	ACTD	0-0.5	9/21/2001	SO	SW8270C	Alkane	N		0.250	J
BSL-4-0-1	ACTD	0-0.5	9/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-4-0-1	ACTD	0-0.5	9/21/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.320	J
BSL-4-4-6	ACTD	4-6	9/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-4-4-6	ACTD	4-6	9/21/2001	SO	SW8270C	Unknown	N		0.750	J
BSL-5-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Alkane	N		0.230	J
BSL-5-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-5-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.360	J
BSL-5-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Unknown	N		0.380	J
BSL-5-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Unknown	N		0.250	J
BSL-6-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		0.440	JB
BSL-6-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-6-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	System Artifact	N		0.280	J
BSL-6-1-2	ACTD	1-2	9/26/2001	SO	SW8270C	Unknown	N		0.310	J
BSL-6-1-2	ACTD	1-2	9/26/2001	SO	SW8270C	Unknown	N		0.430	JB
BSL-6-1-2	ACTD	1-2	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-6-1-2	ACTD	1-2	9/26/2001	SO	SW8270C	Unknown	N		0.300	J
BSL-7-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Alkane	N		0.220	J
BSL-7-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Unknown	N		0.220	J
BSL-7-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Unknown	N		0.220	J
BSL-7-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-7-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.570	J
BSL-8-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Alkane	N		0.320	J
BSL-8-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		0.380	JB
BSL-8-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-8-0-1	ACTD	0-1	9/26/2001	SO	SW8270C	Unknown	N		0.320	JB
BSL-9-.5-2	ACTD	0.5-2	9/21/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.420	J
BSL-9-.5-2	ACTD	0.5-2	9/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BSL-9-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Unknown	N		0.400	J
BSL-9-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Unknown	N		0.180	J
BSL-9-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Alkane	N		0.210	J
BSL-9-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Unknown	N		0.690	J
BSL-9-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.620	J
BSL-9-0-.5	ACTD	0-0.5	9/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.200	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Anthracene Methyl	N		0.260	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		2.70	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		0.220	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	9h-Fluorene, -Dimethyl-	N		0.470	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	9h-Fluorene Methyl	N		0.180	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.200	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.320	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Anthracene Methyl	N		0.290	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		0.480	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.780	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Isomer Of C20H12	N		0.200	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		0.700	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.230	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.330	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Dimethylbenzenamine	N		0.540	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	C20H12	N		0.180	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	C15H12	N		0.170	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		0.360	JB
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.350	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.360	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Anthracene Methyl	N		0.200	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	C14H12S	N		0.400	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		0.450	JB
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.180	J
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BT-B1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.180	J
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8270C	Alkane	N		0.670	J
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8270C	Alkane	N		0.180	J
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8270C	Unknown	N		0.280	J
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8270C	Unknown	N		0.780	J
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8270C	C14H8S2	N		0.190	J
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8270C	Alkane	N		1.70	J
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8270C	Unknown	N		0.400	JB
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8270C	Unknown	N		1.20	J
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.420	J
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BT-B2-0.5-2	ACTD	0.5-2	9/18/2001	SO	SW8270C	Unknown	N		0.500	JB
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		2.50	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		1.80	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		2.90	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		7.70	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		6.40	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		1.50	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Phenylnaphthalene	N		6.10	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		2.40	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.50	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		2.70	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		2.60	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Phenol, Nonyl-	N		2.80	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	System Artifact	N		2.70	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Phenol, -(tetramethylbutyl)-	N		4.00	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.60	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		6.80	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.70	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Phenanthrene Methyl	N		1.60	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		2.40	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.80	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		5.00	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		2.40	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		3.40	J
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BT-B2-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		3.10	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.00	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.70	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Naphthalenecarboxylic Acid	N		1.00	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Chrysene Methyl	N		1.20	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Phenol, Nonyl-	N		15.0	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		2.90	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		2.60	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.20	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.20	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		10.0	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		6.90	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.10	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		1.10	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.50	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		6.50	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	C22H12	N		1.60	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Phosphoric Acid, Tris(-Methylphenyl) Es	N		1.20	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		3.40	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.10	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Benzene Trichloro	N		2.00	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		3.00	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Benzene Tetrachloro	N		7.40	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Naphthalene Dimethyl	N		1.60	J
BT-B3-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.200	J
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.210	J
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.270	J
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.210	J
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8270C	Phenanthrene Dimethyl	N		0.200	J
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8270C	Dimethyldibenzo(b,d)thiophene	N		0.250	J
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8270C	Unknown	N		1.40	JB
BT-B4-0.5-2	ACTD	0.5-2	8/30/2001	SO	SW8270C	Alkane	N		0.210	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.890	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.860	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.840	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.30	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.920	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.810	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		0.950	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.690	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.720	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		1.40	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		2.10	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		0.780	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Unknown	N		1.80	J
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Alkane	N		1.50	JB
BT-B4-0-0.5	ACTD	0-0.5	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.220	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.180	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.490	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.170	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Benzenesulfonamide, -Methyl-	N		0.430	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.230	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.170	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.240	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.180	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.180	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Phenol, Nonyl-	N		0.180	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		0.560	J
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.670	JB
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		0.700	JB
BT-B5-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		0.370	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		0.200	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Alkane	N		0.850	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Alkane	N		0.450	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Unknown	N		0.280	JB
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Unknown	N		0.360	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Alkane	N		0.270	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Unknown	N		0.400	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Anthracene Methyl	N		0.300	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Unknown	N		0.180	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Dimethylbenzenamine	N		0.790	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Unknown	N		0.720	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	System Artifact	N		0.230	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	9,10-Anthracenedione-Diamino	N		0.270	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Unknown	N		0.260	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Unknown	N		0.220	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	System Artifact	N		1.40	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Tetrachlorobenzene	N		0.990	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	C22H12	N		0.390	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.210	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Unknown	N		0.220	JB
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Unknown Acid	N		0.280	J
BT-B6-0.5-2	ACTD	0.5-2	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.740	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.770	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.920	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	N		3.20	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.870	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Benzothiophene	N		1.10	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.00	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.20	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		1.70	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.960	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Dibenzofuran, -Methyl-	N		0.710	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.940	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.970	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	9,10-Anthracenedione Diamino	N		0.690	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.690	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.00	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.800	J
BT-B6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-1-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.180	J
CF-1-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.160	J
CF-1-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.460	JB
CF-1-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-1-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		0.160	J
CF-1-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	System Artifact	N		0.330	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		0.840	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		0.550	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		0.820	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		2.20	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		0.590	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		0.570	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Benzenamine, Dichloro	N		0.700	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.760	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		2.10	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	C10H14O2	N		0.620	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Naphthalene Dimethyl	N		0.810	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		0.560	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Unknown	N		0.580	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		1.60	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Unknown	N		0.930	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		1.50	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		1.60	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		1.00	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		0.600	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.690	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		1.30	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Dimethyl Naphthalene	N		0.880	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	N		0.880	J
CF-1-2-4	ACTD	2-4	8/31/2001	SO	SW8270C	Benzenamine, Methyl-Nitro-	N		1.10	J
CF-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Alkane	N		0.560	J
CF-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	9,10-Anthracenedione, -Hydroxy-	N		1.00	J
CF-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		5.00	J
CF-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		0.840	J
CF-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		0.670	J
CF-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Alkane	N		0.390	J
CF-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		1.70	JB
CF-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-3-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		2.20	JB
CF-3-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-3-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		2.00	JB
CF-3-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-4-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		0.900	J
CF-4-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-4-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		1.70	JB
CF-5-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-5-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		1.50	JB
CF-5-4-6	ACTD	4-6	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
CF-5-4-6	ACTD	4-6	8/28/2001	SO	SW8270C	Unknown	N		1.70	JB
CF-6-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-6-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		1.80	J
CF-6-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		1.50	JB
CF-7-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		1.60	J
CF-7-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-7-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		1.30	JB
CF-7-4-6	ACTD	4-6	8/28/2001	SO	SW8270C	Unknown	N		1.20	J
CF-7-4-6	ACTD	4-6	8/28/2001	SO	SW8270C	Unknown	N		1.40	J
CF-7-4-6	ACTD	4-6	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-7-4-6	ACTD	4-6	8/28/2001	SO	SW8270C	Unknown	N		1.50	JB
CF-7-4-6	ACTD	4-6	8/28/2001	SO	SW8270C	Unknown	N		0.950	J
CF-8-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		1.60	JB
CF-8-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-9-0.5-2	ACTD	0.5-2	8/31/2001	SO	SW8270C	Unknown	N		0.200	J
CF-9-0.5-2	ACTD	0.5-2	8/31/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-9-0.5-2	ACTD	0.5-2	8/31/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.400	JB
CF-9-0.5-2	ACTD	0.5-2	8/31/2001	SO	SW8270C	Alcohols	N		0.170	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	C17H12	N		0.500	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.170	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		0.160	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.270	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Isomer Of C22H12	N		0.160	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.270	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Dimethylbenzenamine	N		0.170	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.460	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.650	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.160	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.160	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.150	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.270	J
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Alkane	N		0.330	JB
CF-9-0-0.5	ACTD	0-0.5	8/31/2001	SO	SW8270C	Unknown	N		0.580	JB
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		3.90	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		11.0	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		2.10	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	9,10-Anthracenedione Diamino	N		1.50	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.40	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Phenanthrene Dimethyl	N		6.00	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	9,10-Anthracenedione, -Hydroxy-	N		1.20	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	9,10-Anthracenedione Diamino	N		8.70	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		1.20	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		2.60	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown C14H9NO2	N		5.90	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Benzene, -Trichloro-	N		1.10	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		6.00	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Alkane	N		5.60	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Alkane	N		4.50	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		7.80	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		1.30	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		1.20	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Naphthalene Trimethyl	N		1.30	J
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DC-B12-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Chloroaniline	N		4.20	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Unknown	N		0.370	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	C20H14O2	N		0.320	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Unknown	N		2.80	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		15.0	JB
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Unknown	N		0.390	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	System Artifact	N		3.40	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Unknown	N		1.70	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	C20H14O2	N		0.560	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Alkane	N		4.60	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Unknown	N		0.340	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Alkane	N		0.220	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		8.10	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Unknown	N		0.220	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Alkane	N		0.270	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.650	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Alkane	N		0.240	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.520	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Alkane	N		1.30	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Alkane	N		0.830	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.260	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Unknown	N		0.400	J
DC-B12-2-4	ACTD	2-4	10/3/2001	SO	SW8270C	Benzene, Chloro-	N		0.370	JB
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		0.360	JB
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	C20H12	N		1.00	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		1.10	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.540	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.530	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.440	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		1.20	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.270	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.420	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.810	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.290	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.380	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.610	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.850	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		0.320	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		0.270	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	C20H12	N		0.510	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		0.350	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		0.320	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Unknown	N		0.330	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.380	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.350	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.270	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Nonylphenol	N		2.20	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.450	JB
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.280	J
DC-SS1-0-0.5	ACTD	0-0.5	9/18/2001	SO	SW8270C	Alkane	N		0.400	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		5.50	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.00	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		2.70	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		3.50	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C20H12	N		3.00	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	9,10-Anthracenedione, 1-Amino-Chloro	N		1.70	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.80	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C17H12	N		2.20	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	N		4.50	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		4.70	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.60	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C22H12	N		5.80	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		18.0	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.60	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Naphthalene Ethyl	N		1.90	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.70	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Naphthalene Dimethyl	N		2.60	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C14H22O	N		2.10	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		1.90	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl, -Methyl-	N		2.00	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		1.90	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		2.10	J
DC-SS11-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		2.80	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		1.20	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	N		2.70	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.10	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.720	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.770	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.700	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.00	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		1.30	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	N		1.80	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.730	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	N		0.750	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		2.10	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.710	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		3.00	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.40	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Cycloalkane/Alkene	N		1.90	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.870	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.820	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		1.70	J
DC-SS13-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.900	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Pyrene, -Tetrachloro-	N		4.20	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Anthracene Methyl	N		0.820	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Phenanthrene Dimethyl	N		1.00	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.20	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.90	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.910	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C14H10	N		1.20	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	N		2.40	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.970	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		1.30	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C16H10S	N		0.960	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.940	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.90	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		1.70	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.820	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C12H8O	N		0.880	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.70	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Anthracene, Chloro-	N		0.840	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.40	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.80	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		1.50	J
DC-SS15-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Phosphoric Acid, Tris(-Methylphen	N		1.90	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		1.60	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.500	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		1.10	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.320	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.540	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.410	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C18H12	N		1.40	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.560	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		1.00	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.350	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.740	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.270	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.250	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		2.20	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Chrysene Methyl	N		0.410	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.500	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	N		2.30	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.420	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Naphthalene Dimethyl	N		0.290	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C10H14O	N		0.320	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C10H14O2	N		0.370	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Dibenzofuran, -Methyl-	N		0.400	J
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DC-SS17-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.410	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.490	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.850	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.800	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.180	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.230	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.820	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.980	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.280	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.200	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C22H12	N		0.450	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		1.50	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.230	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.470	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.160	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.210	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.220	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.320	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.200	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.220	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.170	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.340	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C20H12	N		0.480	J
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.320	JB
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DC-SS2-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.420	JB
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1h-Indene-Dihydro-Methyl-	N		0.540	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Isomer Of C17H12	N		0.250	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.280	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.350	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.350	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.510	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.540	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.310	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.480	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.460	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.220	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.220	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	9,10-Anthracenedione, 1-Amino-Chloro	N		0.340	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.450	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.190	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.300	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.230	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.250	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	N		1.00	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.260	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.220	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.220	J
DC-SS3-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Carbonyl Sulfide	N		0.580	JB
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.150	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.210	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.210	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.260	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.450	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.350	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.220	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.380	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.220	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.200	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.170	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.180	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.350	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.260	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.260	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.260	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.180	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.550	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.250	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.310	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.170	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.230	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		11.0	JB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.220	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.240	J
DC-SS6-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.250	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.190	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.170	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.260	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.500	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.250	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.960	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.240	JB
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.290	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.210	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.230	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.260	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.210	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.300	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Sulfur, Mol. (s8)	N		0.350	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.270	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	N		0.330	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		2.90	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.170	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.210	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.270	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.250	J
DC-SS7-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Butane	N		0.320	JB
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.910	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.310	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.280	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	N		0.320	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.160	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.370	JB
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.190	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Isomer Of C16H14	N		0.200	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.160	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.580	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Sulfur, Mol. (s8)	N		0.800	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.160	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.240	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.770	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	N		0.300	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.620	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.190	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.200	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.190	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.160	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	N		0.160	J
DC-SS9-0-0.5	ACTD	0-0.5	9/17/2001	SO	SW8270C	Butane	N		0.480	JB
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		0.190	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		0.200	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.250	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.200	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		1.00	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.190	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		0.170	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.270	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		0.540	JB
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		0.260	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.200	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		0.190	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Alkane	N		0.190	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	System Artifact	N		0.280	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		0.170	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Alkane	N		0.310	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.320	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		0.660	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.280	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.250	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Alkane	N		0.280	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.350	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		0.380	J
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DSP-1-0-0.5	ACTD	0-0.5	10/3/2001	SO	SW8270C	Unknown	N		0.600	JB
DSP-1-4-6	ACTD	4-6	11/19/2001	SO	SW8270C	Unknown	N		0.460	J
DSP-1-4-6	ACTD	4-6	11/19/2001	SO	SW8270C	Cycloalkane/Alkene	N		1.20	JB
DSP-1-4-6	ACTD	4-6	11/19/2001	SO	SW8270C	Unknown	N		1.60	JB
DSP-1-4-6	ACTD	4-6	11/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.160	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.240	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.340	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.160	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.410	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.220	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	C20H14O2	N		0.290	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.200	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.90	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.170	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		6.30	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.970	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.200	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.30	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.850	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.400	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.460	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Naphthalene Decahydro	N		1.20	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.640	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.230	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.220	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.580	JB
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		6.30	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.430	J
DSP-2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.50	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		2.10	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		2.90	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		4.90	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		3.40	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		2.10	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.20	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.20	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		2.40	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		4.40	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		1.80	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		1.40	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		3.00	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Phenol, Nonyl-	N		1.60	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.60	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	C22H12	N		1.40	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		2.50	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		2.40	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.80	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.20	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Phenol, P-Tert-Butyl-	N		1.40	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.30	J
DSP-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		3.60	J
DSP-3-2-4	ACTD	2-4	9/4/2001	SO	SW8270C	Alkene (TIC)	N		0.280	JB
DSP-3-2-4	ACTD	2-4	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.370	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.220	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	C16H10S	N		0.270	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.680	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.240	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.30	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.230	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.530	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.240	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.250	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.00	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.820	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.280	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.290	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.260	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.330	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	System Artifact	N		0.250	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.420	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.550	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.620	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.220	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		2.60	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	System Artifact	N		0.400	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		2.70	J
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.00	JB
DSP-4-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.360	J
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		0.270	J
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		0.260	J
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		0.330	J
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		0.750	J
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		0.810	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.270	JB
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Benzenamine, Dichloro	N		0.260	J
DSP-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.260	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Naphthalene Methyl	FD	LP-8-0-0.5	0.230	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	C22H12	FD	LP-8-0-0.5	0.870	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	C20H12	FD	LP-8-0-0.5	0.180	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	FD	LP-8-0-0.5	0.340	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	FD	LP-8-0-0.5	0.210	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	System Artifact	FD	LP-8-0-0.5	0.170	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	FD	LP-8-0-0.5	1.50	JB
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	FD	LP-8-0-0.5	0.250	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	FD	LP-8-0-0.5	0.360	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	FD	LP-8-0-0.5	0.160	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	FD	LP-8-0-0.5	0.160	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	FD	LP-8-0-0.5	0.500	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	FD	LP-8-0-0.5	0.280	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	FD	LP-8-0-0.5	1.70	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	LP-8-0-0.5		U
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	FD	LP-8-0-0.5	0.240	JB
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	FD	LP-8-0-0.5	0.240	J
DUP-01-010824	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	FD	LP-8-0-0.5	0.220	JB
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Phenol, Nonyl-	FD	CF-1-2-4	0.920	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Unknown	FD	CF-1-2-4	0.780	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	9h-Fluorene, -Dimethyl-	FD	CF-1-2-4	0.430	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	1.00	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	1.00	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Unknown	FD	CF-1-2-4	1.40	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	2.20	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	0.570	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Unknown	FD	CF-1-2-4	1.20	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	0.640	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	0.700	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Naphthalene Trimethyl	FD	CF-1-2-4	0.520	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Naphthalene 1-Methyl	FD	CF-1-2-4	1.20	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	1.20	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	0.580	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Benzenamine, Methyl-Nitro-	FD	CF-1-2-4	0.500	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	1.20	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	1.20	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Benzenamine, Dichloro	FD	CF-1-2-4	0.580	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Unknown	FD	CF-1-2-4	0.540	JB
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Naphthalene Trimethyl	FD	CF-1-2-4	0.500	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	CF-1-2-4		U
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	0.820	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	0.500	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Naphthalene Dimethyl	FD	CF-1-2-4	0.660	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Benzenamine, Dichloro	FD	CF-1-2-4	0.610	J
DUP-01-010831	ACTD	2-4	8/31/2001	SO	SW8270C	Alkane	FD	CF-1-2-4	0.900	J
DUP-01-010904	ACTD	0-0.5	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	HF-B2-0-0.5		U
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Unknown	FD	ADN-1-8-10	1.50	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	FD	ADN-1-8-10	2.50	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	FD	ADN-1-8-10	8.80	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Unknown	FD	ADN-1-8-10	4.40	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	FD	ADN-1-8-10	0.880	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	FD	ADN-1-8-10	3.20	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	FD	ADN-1-8-10	1.10	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	FD	ADN-1-8-10	1.50	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	FD	ADN-1-8-10	1.70	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	FD	ADN-1-8-10	1.00	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Naphthalene Dimethyl	FD	ADN-1-8-10	1.60	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	FD	ADN-1-8-10	0.860	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	C3 Alkyl Benzene	FD	ADN-1-8-10	0.880	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Naphthalene Dimethyl	FD	ADN-1-8-10	0.940	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	FD	ADN-1-8-10	4.70	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	FD	ADN-1-8-10	0.840	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Naphthalene Methyl	FD	ADN-1-8-10	6.10	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Quinoline, -Methyl-	FD	ADN-1-8-10	0.950	J
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	ADN-1-8-10		U
DUP-01-010905	ACTD	8-10	9/5/2001	SO	SW8270C	Unknown	FD	ADN-1-8-10	1.50	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	FD	SILO-B1-6-8	5.80	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Pyrene, Methyl-	FD	SILO-B1-6-8	4.60	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	C14H12S	FD	SILO-B1-6-8	5.00	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Unknown	FD	SILO-B1-6-8	5.60	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Isomer Of C15H12	FD	SILO-B1-6-8	3.90	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Phenol, -Tetramethylbutyl	FD	SILO-B1-6-8	4.70	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	C17H12	FD	SILO-B1-6-8	6.20	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Alkane	FD	SILO-B1-6-8	7.30	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	C14H12	FD	SILO-B1-6-8	4.80	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Unknown	FD	SILO-B1-6-8	4.30	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	SILO-B1-6-8		U
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Benzenamine, Dichloro	FD	SILO-B1-6-8	7.70	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Unknown	FD	SILO-B1-6-8	8.40	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Alkane	FD	SILO-B1-6-8	5.10	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Unknown	FD	SILO-B1-6-8	5.00	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Naphthalene Decahydro	FD	SILO-B1-6-8	5.20	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Unknown	FD	SILO-B1-6-8	6.50	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Alkane	FD	SILO-B1-6-8	4.60	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Cyclohexane Alkyl	FD	SILO-B1-6-8	6.30	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Naphthalene Dimethyl	FD	SILO-B1-6-8	6.30	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Alkane	FD	SILO-B1-6-8	4.60	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Alkane	FD	SILO-B1-6-8	21.0	J
DUP-01-010906	ACTD	0-8	9/6/2001	SO	SW8270C	Alkane	FD	SILO-B1-6-8	16.0	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	1.90	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	1.20	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	C20H12	FD	PCA-4-0-0.5	0.810	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	PCA-4-0-0.5	1.50	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	1.70	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	PCA-4-0-0.5	0.930	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	PCA-4-0-0.5	1.20	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	PCA-4-0-0.5	0.970	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	1.10	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	PCA-4-0-0.5	0.910	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	0.780	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	0.840	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Benzene, 1,2,4-Trichloro-	FD	PCA-4-0-0.5	1.20	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	PCA-4-0-0.5	1.20	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	1.80	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	1.40	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	PCA-4-0-0.5	1.50	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	7.80	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	1.40	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	2.30	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	1.30	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	PCA-4-0-0.5	1.30	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	PCA-4-0-0.5	3.70	J
DUP-01-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	PCA-4-0-0.5		U
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	FD	DC-SS18-0-0.5	0.240	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	9,10-Anthracenedione, Diamino-	FD	DC-SS18-0-0.5	0.230	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact	FD	DC-SS18-0-0.5	0.920	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	FD	DC-SS18-0-0.5	0.340	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	C17H12	FD	DC-SS18-0-0.5	0.170	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	9h-Fluorene Methyl	FD	DC-SS18-0-0.5	0.190	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Dimethylbenzenamine	FD	DC-SS18-0-0.5	1.00	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	FD	DC-SS18-0-0.5	0.320	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	FD	DC-SS18-0-0.5	0.160	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Tetrachlorobenzene	FD	DC-SS18-0-0.5	0.740	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	FD	DC-SS18-0-0.5	0.180	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	FD	DC-SS18-0-0.5	0.170	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	FD	DC-SS18-0-0.5	0.650	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	FD	DC-SS18-0-0.5	0.480	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	FD	DC-SS18-0-0.5	0.680	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	FD	DC-SS18-0-0.5	0.350	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	FD	DC-SS18-0-0.5	0.590	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	FD	DC-SS18-0-0.5	0.200	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	FD	DC-SS18-0-0.5	0.880	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	FD	DC-SS18-0-0.5	0.180	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	FD	DC-SS18-0-0.5	0.340	JB
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	9,10-Anthracenedione-Diamino	FD	DC-SS18-0-0.5	0.220	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	System Artifact/Aldol-Condensation	FD	DC-SS18-0-0.5	0.420	JB
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	DC-SS18-0-0.5		U
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Unknown	FD	DC-SS18-0-0.5	0.200	JB
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	FD	DC-SS18-0-0.5	0.160	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	FD	DC-SS18-0-0.5	0.160	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	FD	DC-SS18-0-0.5	0.180	J
DUP-01-010917	ACTD	0-0.5	9/17/2001	SO	SW8270C	Alkane	FD	DC-SS18-0-0.5	0.540	J
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	Unknown	FD	BSL-6-1-2	0.720	J
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	FD	BSL-6-1-2	0.280	J
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	C9H18O	FD	BSL-6-1-2	5.00	J
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	Unknown	FD	BSL-6-1-2	3.90	J
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	9,10-Anthracenedione, 1-Amino-Chloro	FD	BSL-6-1-2	0.400	J
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	Alkane	FD	BSL-6-1-2	0.500	J
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	Alkane	FD	BSL-6-1-2	0.290	J
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	Unknown	FD	BSL-6-1-2	0.700	J
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	Unknown	FD	BSL-6-1-2	0.360	JB
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	BSL-6-1-2		U
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	Unknown	FD	BSL-6-1-2	3.50	J
DUP-01-010926	ACTD	1-2	9/26/2001	SO	SW8270C	Unknown	FD	BSL-6-1-2	0.670	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Benzene, -Trichloro-	FD	ADS-5-4-6	0.240	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	FD	ADS-5-4-6	0.360	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	FD	ADS-5-4-6	0.200	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	FD	ADS-5-4-6	0.290	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	FD	ADS-5-4-6	0.160	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	FD	ADS-5-4-6	0.660	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	FD	ADS-5-4-6	0.500	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	FD	ADS-5-4-6	0.340	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	C12H8O	FD	ADS-5-4-6	0.550	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	FD	ADS-5-4-6	0.360	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	FD	ADS-5-4-6	0.510	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Cycloalkane/Alkene	FD	ADS-5-4-6	0.200	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	FD	ADS-5-4-6	0.170	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	FD	ADS-5-4-6	0.150	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	FD	ADS-5-4-6	0.190	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	FD	ADS-5-4-6	1.20	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	FD	ADS-5-4-6	0.330	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	FD	ADS-5-4-6	0.220	JB
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Unknown	FD	ADS-5-4-6	0.350	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	FD	ADS-5-4-6	0.160	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	FD	ADS-5-4-6	0.320	J
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	ADS-5-4-6		U
DUP-01-010927	ACTD	4-6	9/27/2001	SO	SW8270C	Alkane	FD	ADS-5-4-6	0.160	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Alkane	FD	BT-B5-0-0.5	0.410	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Alkane	FD	BT-B5-0-0.5	0.280	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Alkane	FD	BT-B5-0-0.5	0.200	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	FD	BT-B5-0-0.5	0.290	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Phenol, 4-(tetramethylbutyl)	FD	BT-B5-0-0.5	0.410	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Alkane	FD	BT-B5-0-0.5	0.170	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	FD	BT-B5-0-0.5	0.190	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	FD	BT-B5-0-0.5	0.290	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	FD	BT-B5-0-0.5	0.190	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	FD	BT-B5-0-0.5	0.270	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Phenol, Nonyl-	FD	BT-B5-0-0.5	0.220	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Naphthalene, Dichloro-	FD	BT-B5-0-0.5	0.190	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Unknown	FD	BT-B5-0-0.5	0.240	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Phenol, Nonyl-	FD	BT-B5-0-0.5	0.170	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Alkane	FD	BT-B5-0-0.5	0.200	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	FD	BT-B5-0-0.5	0.280	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	C3 Alkyl Benzene	FD	BT-B5-0-0.5	0.490	JB
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Unknown	FD	BT-B5-0-0.5	0.570	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Unknown	FD	BT-B5-0-0.5	0.400	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Unknown	FD	BT-B5-0-0.5	0.290	J
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	BT-B5-0-0.5		U
DUP-01-021001	ACTD	0-0	10/2/2001	SO	SW8270C	System Artifact	FD	BT-B5-0-0.5	0.420	JB
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	FD	230-B7 1.5-2	0.710	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	FD	230-B7 1.5-2	1.40	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	FD	230-B7 1.5-2	1.10	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Dimethylanthracene	FD	230-B7 1.5-2	1.80	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Isomer Of C15H12	FD	230-B7 1.5-2	2.60	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	FD	230-B7 1.5-2	0.660	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	FD	230-B7 1.5-2	1.00	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	FD	230-B7 1.5-2	1.30	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	FD	230-B7 1.5-2	1.60	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	FD	230-B7 1.5-2	0.700	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	FD	230-B7 1.5-2	1.60	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Anthracene Methyl	FD	230-B7 1.5-2	4.00	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	FD	230-B7 1.5-2	1.50	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Naphthalene Phenyl	FD	230-B7 1.5-2	1.30	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Cycloalkane/Alkene	FD	230-B7 1.5-2	0.660	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	FD	230-B7 1.5-2	1.00	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	FD	230-B7 1.5-2	3.10	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	FD	230-B7 1.5-2	1.00	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Alkane	FD	230-B7 1.5-2	0.740	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	System Artifact	FD	230-B7 1.5-2	2.30	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	FD	230-B7 1.5-2	0.720	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	FD	230-B7 1.5-2	1.80	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Unknown	FD	230-B7 1.5-2	1.80	J
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	230-B7 1.5-2		U
DUP-01-08 2201	ACTD	1.5-2	8/22/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	FD	230-B7 1.5-2	2.40	JB
DUP-01-121001	ACTD	0-0	10/12/2001	SO	SW8270C	Alkane	FD	RR-11 0-.5	0.380	JB
DUP-01-121001	ACTD	0-0	10/12/2001	SO	SW8270C	Unknown	FD	RR-11 0-.5	0.470	JB
DUP-01-121001	ACTD	0-0	10/12/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	RR-11 0-.5		U
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Unknown	FD	HB-3A	0.550	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Alkane	FD	HB-3A	0.750	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	9h-Fluorene Methyl	FD	HB-3A	0.530	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Cycloalkane/Alkene	FD	HB-3A	0.710	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Alkane	FD	HB-3A	1.20	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Unknown	FD	HB-3A	0.810	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Unknown	FD	HB-3A	0.580	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	C17H12	FD	HB-3A	0.500	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Unknown	FD	HB-3A	0.410	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	FD	HB-3A	0.560	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Unknown	FD	HB-3A	0.870	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Alkane	FD	HB-3A	0.420	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Alkane	FD	HB-3A	0.470	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Naphthalene Trimethyl	FD	HB-3A	0.420	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Alkane	FD	HB-3A	0.590	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Unknown	FD	HB-3A	1.50	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Alkane	FD	HB-3A	0.450	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Unknown	FD	HB-3A	0.460	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Total TIC, Semi-volatile	FD	HB-3A		U
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Biphenyl	FD	HB-3A	0.530	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Unknown	FD	HB-3A	0.480	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Unknown	FD	HB-3A	2.30	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	C3 Alkyl Benzene	FD	HB-3A	3.10	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	System Artifact/Aldol-Condensation	FD	HB-3A	1.60	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Unknown	FD	HB-3A	2.40	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	System Artifact/Aldol-Condensation	FD	HB-3A	71.0	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	System Artifact/Aldol-Condensation	FD	HB-3A	0.580	J
DUP-01-170402	ACTD	0-0	4/17/2002	SO	SW8270C	Unknown	FD	HB-3A	0.540	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	231-B7-0-.5	6.00	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	231-B7-0-.5	2.00	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	231-B7-0-.5	4.90	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	231-B7-0-.5	1.80	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	1h-Indene-Dihydro-Ethyl	FD	231-B7-0-.5	2.40	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	231-B7-0-.5	2.80	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	231-B7-0-.5	1.70	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Phosphoric Acid, Tris(-Methylphen	FD	231-B7-0-.5	1.60	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	231-B7-0-.5	2.40	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	231-B7-0-.5	3.80	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	231-B7-0-.5	1.60	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkene	FD	231-B7-0-.5	1.80	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	231-B7-0-.5	1.90	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	231-B7-0-.5	3.80	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	231-B7-0-.5	2.20	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	231-B7-0-.5	5.80	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Chrysene Methyl	FD	231-B7-0-.5	1.70	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	231-B7-0-.5	7.30	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	231-B7-0-.5	6.10	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Isomer Of C20H12	FD	231-B7-0-.5	3.00	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	FD	231-B7-0-.5	3.20	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	231-B7-0-.5	2.90	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	FD	231-B7-0-.5	3.90	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	FD	231-B7-0-.5	2.90	J
DUP-02-010913	ACTD	0-0.5	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	231-B7-0-.5		U
DUP-02-010921	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	FD	BSL-10-0-1	0.470	J
DUP-02-010921	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	FD	BSL-10-0-1	0.310	J
DUP-02-010921	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown	FD	BSL-10-0-1	0.680	J
DUP-02-010921	ACTD	0-1	9/21/2001	SO	SW8270C	Unknown Acid	FD	BSL-10-0-1	0.310	J
DUP-02-010921	ACTD	0-1	9/21/2001	SO	SW8270C	Indane	FD	BSL-10-0-1	0.460	J
DUP-02-010921	ACTD	0-1	9/21/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	BSL-10-0-1		U
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	FD	5K-B5-4-6	0.420	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	1,1'-Biphenyl, Dimethyl-	FD	5K-B5-4-6	0.520	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	FD	5K-B5-4-6	130.	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	FD	5K-B5-4-6	0.430	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	FD	5K-B5-4-6	1.00	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	FD	5K-B5-4-6	0.710	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	FD	5K-B5-4-6	14.0	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	FD	5K-B5-4-6	1.80	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	FD	5K-B5-4-6	2.10	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	FD	5K-B5-4-6	0.960	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	FD	5K-B5-4-6	0.820	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	FD	5K-B5-4-6	1.50	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Isomer Of C20H12	FD	5K-B5-4-6	3.30	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	FD	5K-B5-4-6	1.90	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	9h-Fluorene Methyl	FD	5K-B5-4-6	0.860	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	FD	5K-B5-4-6	0.930	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	FD	5K-B5-4-6	1.20	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	FD	5K-B5-4-6	1.10	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Naphthalene, Dichloro-	FD	5K-B5-4-6	1.20	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	FD	5K-B5-4-6	0.540	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Benzenamine, Dichloro	FD	5K-B5-4-6	0.380	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	5K-B5-4-6		U
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Naphthalenol	FD	5K-B5-4-6	3.30	J
DUP-02-010926	ACTD	4-6	9/26/2001	SO	SW8270C	Benzenamine, Dichloro	FD	5K-B5-4-6	2.70	J
DUP060807	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.28)	FD	TP-106-A	0.150	J
DUP060807	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.35)	FD	TP-106-A	0.160	J
DUP060807	ACTD	0-0	6/8/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	FD	TP-106-A	0.140	J
DUP060807	ACTD	0-0	6/8/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	FD	TP-106-A	18.0	J
DUP060807	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=25.16)	FD	TP-106-A	0.320	J
DUP060807	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.03)	FD	TP-106-A	0.190	J
DUP060807	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.44)	FD	TP-106-A	0.170	J
DUP-1-010828	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	FD	CF-6-0-0.5	1.60	J
DUP-1-010828	ACTD	0-0.5	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	CF-6-0-0.5		U
DUP-1-010828	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	FD	CF-6-0-0.5	1.60	JB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DUP-1-010921	ACTD	0-0.5	9/21/2001	SO	SW8270C	System Artifact	FD	BSL-7-0-.5	0.680	J
DUP-1-010921	ACTD	0-0.5	9/21/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	BSL-7-0-.5		U
DUP-1-010921	ACTD	0-0.5	9/21/2001	SO	SW8270C	Alkane	FD	BSL-7-0-.5	0.280	J
DUP-1-010921	ACTD	0-0.5	9/21/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	FD	BSL-7-0-.5	0.500	J
DUP110606	ACTD	15-17	11/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	FD	WWT-101-15-17	180.	J
DUP112006	ACTD	16-18	11/20/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	FD	MW-6D-16-18	0.390	J
DUP112006	ACTD	16-18	11/20/2006	SO	SW8270C	Unknown (RT=27.53)	FD	MW-6D-16-18	0.760	J
DUP112006	ACTD	16-18	11/20/2006	SO	SW8270C	System Artifact (RT=22.61)	FD	MW-6D-16-18	0.280	J
DUP112006	ACTD	16-18	11/20/2006	SO	SW8270C	System Artifact (RT=4.01)	FD	MW-6D-16-18	0.480	J
DUP112006	ACTD	16-18	11/20/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	FD	MW-6D-16-18	94.0	J
DUP112006	ACTD	16-18	11/20/2006	SO	SW8270C	System Artifact (RT=11.55)	FD	MW-6D-16-18	0.730	J
DUP112106	ACTD	10-12	11/21/2006	SO	SW8270C	System Artifact (RT=11.53)	FD	MW-25D-10-12	0.380	J
DUP112106	ACTD	10-12	11/21/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	FD	MW-25D-10-12	0.660	J
DUP112106	ACTD	10-12	11/21/2006	SO	SW8270C	Unknown (RT=27.49)	FD	MW-25D-10-12	0.430	J
DUP112106	ACTD	10-12	11/21/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	FD	MW-25D-10-12	3.20	J
DUP112106	ACTD	10-12	11/21/2006	SO	SW8270C	System Artifact (RT=4.03)	FD	MW-25D-10-12	0.630	J
DUP-120506	ACTD	0-4	12/5/2006	SO	SW8270C	Unknown (RT=22.2)	FD	LHP-105-0-1	0.830	J
DUP-120506	ACTD	0-4	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	FD	LHP-105-0-1	0.820	J
DUP-120506	ACTD	0-4	12/5/2006	SO	SW8270C	unknown (RT=24.29)	FD	LHP-105-0-1	0.910	J
DUP-120506	ACTD	0-4	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	FD	LHP-105-0-1	3.50	J
DUP-120506	ACTD	0-4	12/5/2006	SO	SW8270C	system artifact (RT=8.06)	FD	LHP-105-0-1	0.430	J
DUP-120506	ACTD	0-4	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	FD	LHP-105-0-1	350.	J
DUP-120506	ACTD	0-4	12/5/2006	SO	SW8270C	system artifact (RT=2.71)	FD	LHP-105-0-1	2.40	J
DUP-120506	ACTD	0-4	12/5/2006	SO	SW8270C	unknown (RT=24.76)	FD	LHP-105-0-1	1.40	J
DUP-120506	ACTD	0-4	12/5/2006	SO	SW8270C	-Naphthalenol (RT=12.51)	FD	LHP-105-0-1	0.590	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=23.43)	FD	LHP-128-0-1	2.10	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=22.88)	FD	LHP-128-0-1	4.60	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=22.31)	FD	LHP-128-0-1	6.90	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=17.29)	FD	LHP-128-0-1	1.80	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	cycloalkane/alkene (RT=16.07)	FD	LHP-128-0-1	3.80	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=16.27)	FD	LHP-128-0-1	4.80	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=16.36)	FD	LHP-128-0-1	2.10	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	unknown (RT=16.48)	FD	LHP-128-0-1	1.80	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=13.66)	FD	LHP-128-0-1	4.70	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	Naphthalene trimethyl (RT=17.16)	FD	LHP-128-0-1	1.80	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	unknown (RT=15.81)	FD	LHP-128-0-1	2.60	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	Naphthalene trimethyl (RT=17.22)	FD	LHP-128-0-1	1.80	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=16.77)	FD	LHP-128-0-1	6.50	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	unknown (RT=17.37)	FD	LHP-128-0-1	3.10	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	Naphthalene trimethyl (RT=17.41)	FD	LHP-128-0-1	2.00	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	Naphthalene trimethyl (RT=17.62)	FD	LHP-128-0-1	1.60	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	Naphthalene trimethyl (RT=17.78)	FD	LHP-128-0-1	1.70	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	Cycloalkane/Alkene (RT=14.4)	FD	LHP-128-0-1	2.30	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=18.83)	FD	LHP-128-0-1	1.70	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=18.88)	FD	LHP-128-0-1	1.40	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	unknown (RT=22.22)	FD	LHP-128-0-1	2.00	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	FD	LHP-128-0-1	39.0	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	Alkane (RT=15.35)	FD	LHP-128-0-1	7.20	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	FD	LHP-128-0-1	1.70	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	Alkane (RT=14.95)	FD	LHP-128-0-1	4.30	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=13.17)	FD	LHP-128-0-1	2.50	J
DUP-120606	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=17.89)	FD	LHP-128-0-1	5.60	J
DUPE071801	ACTD	0-0.5	7/18/2001	SO	SW8270C	Unknown	FD	ADS-2-0-0.5	0.220	J
DUPE071801	ACTD	0-0.5	7/18/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	FD	ADS-2-0-0.5	0.150	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
DUPE071801	ACTD	0-0.5	7/18/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	ADS-2-0-0.5		U
DUPE071801	ACTD	0-0.5	7/18/2001	SO	SW8270C	Alkene	FD	ADS-2-0-0.5	0.470	J
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.260	J
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.170	J
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.260	J
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		2.60	JB
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.180	J
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	C8H7CL	N		0.250	J
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	System Artifact	N		0.190	J
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.480	J
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.170	J
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.180	J
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.350	JB
EC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
EC-2	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.190	J
EC-2	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.380	J
EC-2	ACTD	0-1	8/21/2001	SO	SW8270C	System Artifact	N		0.170	J
EC-2	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.340	JB
EC-2	ACTD	0-1	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
EC-2	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.450	J
EC-2	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		2.20	JB
EC-2	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.280	JB
EC-2	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.160	J
EC-3	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.390	J
EC-3	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.160	J
EC-3	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.200	J
EC-3	ACTD	0-1	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
EC-3	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.340	J
EC-3	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		2.10	JB
EC-3	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		1.60	J
EC-3	ACTD	0-1	8/21/2001	SO	SW8270C	System Artifact	N		0.210	J
EC-3	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.290	JB
EC-3	ACTD	0-1	8/21/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.270	J
EC-4	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.260	J
EC-4	ACTD	0-1	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
EC-4	ACTD	0-1	8/21/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.270	JB
EC-4	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		2.10	JB
EC-4	ACTD	0-1	8/21/2001	SO	SW8270C	System Artifact	N		0.220	J
EC-4	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.370	JB
EC-5	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.220	J
EC-5	ACTD	0-1	8/21/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.150	J
EC-5	ACTD	0-1	8/21/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		2.20	J
EC-5	ACTD	0-1	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
EC-5	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.350	JB
EC-5	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.320	J
EC-5	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.310	JB
EC-5	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		1.30	J
EC-5	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		2.30	JB
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.270	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.540	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.510	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.620	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Isomer Of C15H12	N		0.290	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Phenol, Nonyl-	N		0.220	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.190	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.200	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Anthracene Methyl	N		0.450	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.760	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.220	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.460	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.240	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.390	JB
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	System Artifact	N		0.380	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.210	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.220	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		6.20	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.200	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.180	J
EC-6	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		2.60	JB
EC-7	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.190	J
EC-7	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.450	J
EC-7	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.200	J
EC-7	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.270	J
EC-7	ACTD	0-1	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
EC-7	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		2.80	JB
EC-7	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		1.90	J
EC-7	ACTD	0-1	8/21/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.340	JB
EC-7	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.940	J
EC-7	ACTD	0-1	8/21/2001	SO	SW8270C	System Artifact	N		0.290	J
EC-7	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.480	JB
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Isomer Of C22H14	N		0.190	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	C10H18	N		0.420	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.290	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.160	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.180	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.180	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.180	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.830	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.200	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.350	JB
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.170	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.300	JB
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	System Artifact	N		0.230	J
EC-8	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		2.40	JB
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.280	J
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.300	J
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.200	J
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.230	J
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.180	J
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.480	J
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.190	J
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.450	JB
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		10.0	J
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.270	JB
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	System Artifact	N		0.270	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
EC-9	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		2.40	JB
ESR-1-0-1	ACTD	0-0.5	9/4/2001	SO	SW8270C	Alkane	N		0.480	J
ESR-1-0-1	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.390	JB
ESR-1-0-1	ACTD	0-0.5	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ESR-1-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Alkane	N		0.240	J
ESR-1-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown	N		0.250	J
ESR-1-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	System Artifact	N		0.230	J
ESR-1-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown	N		0.350	J
ESR-1-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown	N		0.620	JB
ESR-1-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown	N		0.380	J
ESR-1-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ESR-1-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Naphthalene Decahydro	N		0.210	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	Propane, Ethoxy-Methyl-	N		160.	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		2.90	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	Phenol, -ethyl- (RT=7.71)	N		1.30	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	Phenol tetrachloro (RT=11.99)	N		0.310	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	unknown (RT=14.12)	N		0.180	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	system artifact (RT=3.45)	N		0.270	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	Benzotriazole (RT=11.03)	N		0.370	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	unknown (RT=9.62)	N		0.280	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	unknown (RT=21.8)	N		5.40	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	unknown (RT=22.06)	N		0.960	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	unknown (RT=23.72)	N		0.260	J
HB-101A	ACTD	17-17	3/5/2007	SO	SW8270C	Phenol, -ethyl--methyl- (RT=8.68)	N		0.360	J
HB-102A	ACTD	0-0	3/13/2007	SO	SW8270C	system artifact (RT=3.88)	N		3.20	J
HB-102A	ACTD	0-0	3/13/2007	SO	SW8270C	unknown phthalate (RT=22.12)	N		0.590	J
HB-102A	ACTD	0-0	3/13/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		230.	J
HB-102A	ACTD	0-0	3/13/2007	SO	SW8270C	system artifact (RT=5.63)	N		0.500	J
HB-102B	ACTD	0-0	3/14/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		70.0	J
HB-102B	ACTD	0-0	3/14/2007	SO	SW8270C	9,10-Anthracenedione, -amino- (RT=20.2)	N		0.190	J
HB-102B	ACTD	0-0	3/14/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.40	J
HB-102B	ACTD	0-0	3/14/2007	SO	SW8270C	Unknown (RT=23.08)	N		0.250	J
HB-102C	ACTD	0-0	3/14/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		160.	J
HB-102C	ACTD	0-0	3/14/2007	SO	SW8270C	system artifact (RT=21.64)	N		0.160	J
HB-102C	ACTD	0-0	3/14/2007	SO	SW8270C	system artifact (RT=7.84)	N		0.160	J
H-B-103A	ACTD	17-17	2/20/2007	SO	SW8270C	Phenol nonyl (RT=14.27)	N		0.230	J
H-B-103A	ACTD	17-17	2/20/2007	SO	SW8270C	Phenol, -(-trimethylpentyl)- (RT=13.66)	N		0.240	J
H-B-103A	ACTD	17-17	2/20/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		190.	J
H-B-103A	ACTD	17-17	2/20/2007	SO	SW8270C	Phenol nonyl (RT=14.21)	N		0.330	J
H-B-103A	ACTD	17-17	2/20/2007	SO	SW8270C	Dibenzothiophene (RT=14.73)	N		0.220	JN
H-B-103A	ACTD	17-17	2/20/2007	SO	SW8270C	Phenol, -(-tetramethylbutyl)- (RT=14.11)	N		0.210	J
H-B-103A	ACTD	17-17	2/20/2007	SO	SW8270C	Sulfur, mol. (S8) (RT=17.56)	N		0.320	JN
H-B-103A	ACTD	17-17	2/20/2007	SO	SW8270C	unknown (RT=16.41)	N		0.240	J
H-B-103A	ACTD	17-17	2/20/2007	SO	SW8270C	system artifact (RT=3.93)	N		0.930	J
H-B-104A	ACTD	17-17	2/23/2007	SO	SW8270C	system artifact (RT=3.92)	N		0.540	J
H-B-104B	ACTD	17-17	2/23/2007	SO	SW8270C	system artifact (RT=3.92)	N		0.680	J
H-B-104B	ACTD	17-17	2/23/2007	SO	SW8270C	Sulfur, mol. (S8) (RT=17.53)	N		0.640	JN
H-B-104B	ACTD	17-17	2/23/2007	SO	SW8270C	system artifact (RT=7.67)	N		0.280	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	unknown PAH substance (RT=16.18)	N		4.20	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	unknown PAH substance (RT=20.31)	N		1.50	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	Naphthalene, -phenyl- (RT=16.84)	N		2.10	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	Biphenyl methyl (RT=12.97)	N		1.60	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	unknown PAH substance (RT=18.83)	N		1.70	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	unknown PAH substance (RT=16.43)	N		2.30	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	unknown PAH substance (RT=16.11)	N		3.40	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	unknown PAH substance (RT=15.49)	N		1.10	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	unknown PAH substance (RT=16.38)	N		7.70	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	Sulfur, mol. (S8) (RT=17.53)	N		2.30	JN
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	Naphthalene, 1-methyl- (RT=9.37)	N		5.60	JN
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	unknown PAH substance (RT=13.81)	N		2.20	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	Dibenzofuran, -methyl- (RT=13.33)	N		4.20	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	Dibenzothiophene (RT=14.69)	N		4.40	JN
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	Quinoline (RT=8.46)	N		1.50	JN
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	9H-Fluorene, -methyl- (RT=14.04)	N		1.90	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	unknown PAH substance (RT=16.26)	N		1.70	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	Dibenzofuran, -methyl- (RT=13.19)	N		1.10	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	Naphthalene dimethyl (RT=10.74)	N		2.10	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	Unknown (RT=14.4)	N		1.10	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	unknown PAH substance (RT=18.94)	N		1.40	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	9H-Fluorene, -methyl- (RT=14.25)	N		1.10	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	Naphthalene dimethyl (RT=10.54)	N		2.10	J
H-B-104C	ACTD	17-17	2/23/2007	SO	SW8270C	unknown (RT=14.58)	N		2.00	J
H-B-104D	ACTD	17-17	2/27/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		120.	J
H-B-104D	ACTD	17-17	2/27/2007	SO	SW8270C	Sulfur, mol. (S8) (RT=18.27)	N		0.350	JN
H-B-104D	ACTD	17-17	2/27/2007	SO	SW8270C	system artifact (RT=3.12)	N		1.80	J
H-B-104D	ACTD	17-17	2/27/2007	SO	SW8270C	System Artifact (RT=4.27)	N		0.400	J
H-B-104E	ACTD	17-17	2/27/2007	SO	SW8270C	Dibenzothiophene (RT=15.38)	N		0.160	JN
H-B-104E	ACTD	17-17	2/27/2007	SO	SW8270C	system artifact (RT=3.14)	N		1.90	J
H-B-104E	ACTD	17-17	2/27/2007	SO	SW8270C	unknown (RT=26.44)	N		0.590	J
H-B-104E	ACTD	17-17	2/27/2007	SO	SW8270C	unknown (RT=18.97)	N		0.170	J
H-B-104E	ACTD	17-17	2/27/2007	SO	SW8270C	System Artifact (RT=4.27)	N		0.400	J
H-B-104E	ACTD	17-17	2/27/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		120.	J
H-B-104E	ACTD	17-17	2/27/2007	SO	SW8270C	4H-Cyclopenta[def]phenanthrene (RT=17.09	N		0.230	JN
H-B-105C	ACTD	17-17	2/8/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		160.	J
H-B-105C	ACTD	17-17	2/8/2007	SO	SW8270C	system artifact (RT=3.93)	N		0.850	J
H-B-105D	ACTD	17-17	2/8/2007	SO	SW8270C	system artifact (RT=3.93)	N		1.00	J
H-B-105D	ACTD	17-17	2/8/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		190.	J
H-B-105D	ACTD	17-17	2/8/2007	SO	SW8270C	system artifact (RT=7.68)	N		0.550	J
H-B-105E	ACTD	0-0	2/8/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		190.	J
H-B-105E	ACTD	0-0	2/8/2007	SO	SW8270C	system artifact (RT=3.92)	N		0.960	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	C10H18	N		1.60	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Anthracene, Chloro-	N		0.730	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Unknown	N		1.60	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.740	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Unknown	N		3.20	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.610	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	C10H8O	N		0.800	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Unknown	N		0.790	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.570	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Isomer Of C20H12	N		7.20	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Unknown	N		1.20	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		54.0	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Unknown	N		0.700	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Unknown	N		0.660	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	System Artifact	N		3.10	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Unknown	N		0.770	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Alkane	N		1.00	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Unknown	N		0.960	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Unknown	N		16.0	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	Unknown	N		0.540	J
HB-1A	ACTD	.75-6.7	4/18/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		1.70	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Alkane	N		0.830	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Alkane	N		0.710	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Unknown	N		1.30	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Alkane	N		1.10	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Unknown	N		0.710	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Cycloalkane/Alkene	N		1.20	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Unknown	N		0.850	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.900	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Alkane	N		1.90	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Unknown	N		2.30	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Unknown	N		0.860	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	9h-Fluorene Methyl	N		0.880	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Alkane	N		1.00	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Naphthalene Trimethyl	N		0.630	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Unknown	N		1.30	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	C17H12	N		0.840	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Unknown	N		4.10	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		1.80	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Unknown	N		4.10	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		81.0	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Biphenyl	N		0.780	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	C3 Alkyl Benzene	N		3.40	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Unknown	N		0.810	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.650	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Unknown	N		0.940	J
HB-3A	ACTD	.25-5.2	4/17/2002	SO	SW8270C	Unknown	N		0.760	J
HB-3B	ACTD	4.5-4.5	4/17/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.240	J
HB-3B	ACTD	4.5-4.5	4/17/2002	SO	SW8270C	Cycloalkane/Alkene	N		1.30	J
HB-3B	ACTD	4.5-4.5	4/17/2002	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.730	J
HB-3B	ACTD	4.5-4.5	4/17/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HB-3B	ACTD	4.5-4.5	4/17/2002	SO	SW8270C	Benzene, Chloro-	N		37.0	J
HB-3C	ACTD	4.5-4.5	4/18/2002	SO	SW8270C	Cycloalkane/Alkene	N		1.20	J
HB-3C	ACTD	4.5-4.5	4/18/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.230	J
HB-3C	ACTD	4.5-4.5	4/18/2002	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.660	J
HB-3C	ACTD	4.5-4.5	4/18/2002	SO	SW8270C	Benzene, Chloro-	N		34.0	J
HB-3C	ACTD	4.5-4.5	4/18/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		1.30	J
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.680	J
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.240	J
HB-3D	ACTD	4.5-4.5	4/18/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		35.0	J
HB-4A	ACTD	.33-5.3	4/19/2002	SO	SW8270C	Alkane	N		0.170	J
HB-4A	ACTD	.33-5.3	4/19/2002	SO	SW8270C	Cycloalkane/Alkene	N		0.400	J
HB-4A	ACTD	.33-5.3	4/19/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HB-4A	ACTD	.33-5.3	4/19/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		1.10	J
HB-4A	ACTD	.33-5.3	4/19/2002	SO	SW8270C	Butane	N		0.630	J
HB-4A	ACTD	.33-5.3	4/19/2002	SO	SW8270C	Chloroaniline	N		0.220	J
HB-4A	ACTD	.33-5.3	4/19/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		35.0	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Phenol, Nonyl-	N		0.640	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	C17H12	N		0.300	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	C11H14O2	N		0.350	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.480	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Unknown	N		0.420	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Alkane	N		0.320	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Anthracene Methyl	N		0.430	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Unknown	N		0.390	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Unknown	N		0.270	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Alkane	N		0.660	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Phenol, -Tetramethylbutyl	N		0.450	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Unknown	N		1.30	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Anthracene Methyl	N		0.270	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Phenanthrene Methyl	N		0.430	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.700	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.930	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Phenol, Nonyl-	N		0.720	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Unknown	N		0.370	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Alkane	N		0.310	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	C20H14O2	N		0.360	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Alkane	N		0.420	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Alkane	N		0.560	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Unknown	N		1.60	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Unknown	N		0.480	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		29.0	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.990	J
HB-5A	ACTD	3-3	4/22/2002	SO	SW8270C	Unknown	N		0.540	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	Alkane	N		0.170	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	Alkane	N		0.330	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	Naphthalene Methyl	N		0.180	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.210	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	Alkane	N		0.240	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	Butane	N		0.670	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	System Artifact	N		0.230	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	Unknown	N		0.220	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		38.0	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	Unknown	N		0.180	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	Unknown	N		0.290	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		1.20	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	Unknown	N		0.380	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	Unknown	N		0.430	J
HB-7A	ACTD	5-5	4/19/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.330	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Alkane	N		0.430	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Alkane	N		0.330	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Phenol, (tetramethylbutyl)-	N		0.300	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		0.480	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Phenol, Nonyl-	N		0.330	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Alkane	N		0.920	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		0.320	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.500	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		0.300	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Alkane	N		0.280	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		0.340	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		1.40	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		2.80	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		0.520	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Alkane	N		0.350	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		0.310	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Benzene, 1,2-Dichloro-	N		0.550	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Alkane	N		0.520	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		0.310	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Butane	N		0.790	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		0.780	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		0.510	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		0.330	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Alkane	N		0.320	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		39.0	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.300	J
HB-8A	ACTD	3-3	4/23/2002	SO	SW8270C	Unknown	N		0.910	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Alkane	N		0.350	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Unknown	N		0.680	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Unknown	N		0.200	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Alkane	N		0.170	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Unknown	N		0.260	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Unknown	N		0.570	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Unknown	N		0.590	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Alkane	N		0.340	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Unknown	N		0.310	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Alkane	N		0.170	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Alkane	N		0.200	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Unknown	N		0.440	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Unknown	N		0.480	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Unknown	N		0.560	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Alkane	N		0.160	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Chloroaniline	N		0.300	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Unknown	N		0.180	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		1.40	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Carbonyl Sulfide	N		0.790	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	Unknown	N		0.240	J
HB-8B	ACTD	.83-4.8	4/23/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		38.0	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Phenol, (tetramethylbutyl)-	N		2.20	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	9,10-Anthracenedione, -Hydroxy-	N		5.90	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		5.60	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Unknown	N		6.50	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Naphthalene Methyl	N		1.30	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Phenol, (tetramethylbutyl)-	N		9.40	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Anthracene Methyl	N		8.40	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		18.0	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		8.70	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Alkane	N		1.20	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		1.80	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Alkane	N		6.00	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.30	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Alkane	N		4.90	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		1.80	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Unknown	N		1.40	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	9,10-Anthracenedione, -Hydroxy-	N		1.40	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Alkane	N		2.30	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Phenol, Nonyl-	N		2.60	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Unknown	N		2.90	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Biphenyl	N		1.90	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		26.0	J
HB-8C	ACTD	5.5-5.5	4/23/2002	SO	SW8270C	Alkane	N		1.30	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	9,10-Anthracenedione, Amino-	N		3.20	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Alkane	N		12.0	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Unknown	N		5.10	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Anthracene Methyl	N		7.90	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		3.40	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Alkane	N		3.20	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		2.60	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	9h-Fluorene Methyl	N		6.00	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Unknown	N		4.80	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Alkane	N		11.0	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Unknown	N		3.60	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		6.90	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Unknown	N		4.90	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Pyrene, Methyl-	N		13.0	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Alkane	N		3.20	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Phenol, Nonyl-	N		3.90	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Anthracene Methyl	N		7.60	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Phenanthrene Methyl	N		3.50	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Anthracene Methyl	N		2.80	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Phenanthrene Dimethyl	N		3.80	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		6.10	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		4.30	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		6.80	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Phenol, (tetramethylbutyl)-	N		5.80	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		29.0	J
HB-9A	ACTD	.75-4.7	4/24/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
HF-B1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.180	J
HF-B1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		1.10	J
HF-B1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.300	JB
HF-B1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.160	J
HF-B1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.190	J
HF-B1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Propane, Ethoxy-Methyl-	N		0.260	JB
HF-B1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.170	J
HF-B1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
HF-B1-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.280	JB
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		1.10	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		1.60	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		2.60	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		0.770	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Cyclohexane Alkyl	N		0.990	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Benzenamine, Dichloro	N		1.70	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		1.10	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		0.790	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	C4 Alkyl Benzene	N		0.870	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.870	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		1.10	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Naphthalene Dimethyl	N		1.40	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.760	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		2.30	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.750	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.900	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		1.20	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		1.30	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Naphthalene Dimethyl	N		1.40	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkene	N		0.760	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	C3 Alkyl Benzene	N		1.00	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Unknown	N		0.870	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Naphthalene Trimethyl	N		1.20	J
HF-B1-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Unknown	N		1.60	J
HF-B2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.160	J
HF-B2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.920	J
HF-B2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		1.10	J
HF-B2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.610	J
HF-B2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.280	JB
HF-B2-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
HF-B2-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown	N		0.200	J
HF-B2-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown C17H12	N		0.170	J
HF-B2-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown	N		0.350	J
HF-B2-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Isomer Of C15H12	N		0.220	J
HF-B2-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
HF-B2-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown	N		0.280	JB
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		1.30	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.630	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		5.10	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	System Artifact	N		0.470	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Phenol, Nonyl-	N		0.380	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		3.40	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	C17H12	N		1.30	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Methanone, -Naphthalenylphenyl-	N		4.80	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.340	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Anthracene Methyl	N		0.550	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Anthracene Methyl	N		0.600	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	C9H18O	N		1.60	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.360	JN
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Benzofuran, -Dihydro-Methyl-Phenyl	N		4.50	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.660	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Alkane	N		0.370	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		0.580	JB
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.540	JB
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Naphthalene, Chloro-	N		0.850	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Naphthalene, Dichloro-	N		3.10	J
HF-B3-0-.5	ACTD	0-0.5	10/2/2001	SO	SW8270C	Unknown	N		3.70	J
HF-B3-8-10	ACTD	8-10	10/2/2001	SO	SW8270C	Unknown	N		0.420	J
HF-B3-8-10	ACTD	8-10	10/2/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.150	J
HF-B3-8-10	ACTD	8-10	10/2/2001	SO	SW8270C	Unknown	N		0.620	J
HF-B3-8-10	ACTD	8-10	10/2/2001	SO	SW8270C	Unknown	N		0.760	JB
HF-B3-8-10	ACTD	8-10	10/2/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
HF-B3-8-10	ACTD	8-10	10/2/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.720	JB
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Alkane	N		0.170	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Unknown	N		0.250	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Unknown	N		0.170	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Alkane	N		0.180	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Alkane	N		0.170	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Alkane	N		0.170	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Unknown	N		0.170	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Alkane	N		0.450	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Unknown	N		0.170	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Isomer Of C15H12	N		0.180	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Chloroaniline	N		0.390	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		23.0	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Unknown	N		0.510	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	System Artifact	N		0.650	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Unknown	N		0.210	J
IB-1-0-2	ACTD	0-2	4/8/2002	SO	SW8270C	Unknown	N		0.170	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		0.580	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		0.350	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		0.470	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		0.220	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		0.270	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Hexachlorobutadiene	N		0.440	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Chloroaniline	N		0.280	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		0.630	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		25.0	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		0.290	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		0.170	J
IB-1-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		1.20	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	C17H12	N		1.20	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Unknown	N		0.230	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Alkane	N		0.230	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Pyrene Methyl	N		0.220	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Unknown	N		0.360	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.460	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.360	JN
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Dibenzofuran, -Methyl-	N		0.370	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.300	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Chrysene Methyl	N		0.260	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Unknown	N		0.230	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	C17H12	N		0.330	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Alkane	N		0.240	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Alkane	N		1.30	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Pyrene Methyl	N		0.790	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Naphthalene Dimethyl	N		0.270	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Octachloro-(PCB)	N		0.310	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Benzo[b]naphthothiophene	N		0.320	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	C20H12	N		1.20	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.330	JN
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Alkane	N		0.300	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Naphthalene, Dichloro-	N		0.840	J N
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Unknown	N		0.900	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Naphthalene 1-Methyl	N		0.760	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		25.0	J
IB-2-12-14	ACTD	12-14	4/8/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		0.340	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		0.510	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.420	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		2.00	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	C17H12	N		0.520	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Isomer Of C15H12	N		1.60	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		0.370	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		1.40	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		1.00	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.430	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Pyrene Methyl	N		0.420	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Phenanthrene Methyl	N		0.420	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	C16H14	N		1.50	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		0.460	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	C14H12S	N		1.20	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		1.60	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.420	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Isomer Of C15H12	N		0.900	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	9h-Fluorene, -Dimethyl-	N		0.460	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Dibenzofuran, -Methyl-	N		0.440	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.960	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		1.10	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		24.0	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	System Artifact	N		0.680	J
IB-2-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Naphthalene 1-Methyl	N		1.30	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Phenol, Nonyl-	N		0.670	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		3.60	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	C16H14	N		3.20	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		0.590	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		2.00	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.90	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		1.00	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		0.570	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Isomer Of C17H12	N		0.630	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		1.60	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		3.30	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		4.60	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		3.20	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	9h-Fluorene Methyl	N		2.60	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Isomer Of C15H12	N		3.50	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		0.700	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		0.670	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	C14H12S	N		2.90	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		1.90	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Alkane	N		1.40	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		0.680	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		1.20	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	System Artifact	N		0.640	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		0.680	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		26.0	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Cycloalkane/Alkene	N		0.800	J
IB-3-4-6	ACTD	4-6	4/8/2002	SO	SW8270C	Unknown	N		0.830	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		6.80	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Unknown	N		4.20	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Alkane	N		33.0	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Unknown	N		8.90	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Alkane	N		3.40	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Naphthalene, Dichloro-	N		3.50	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Unknown	N		6.70	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Alkane	N		3.80	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Unknown	N		4.30	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Alkane	N		3.30	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	C22H12	N		3.10	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Unknown	N		4.40	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Unknown	N		17.0	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Unknown	N		11.0	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Anthracene Methyl	N		4.90	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	C17H12	N		3.70	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		3.00	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Isomer Of C16H14	N		7.10	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Unknown	N		3.20	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		8.40	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Unknown	N		25.0	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Unknown	N		17.0	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Total TIC, Semi-volatile	N			U
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	Unknown	N		3.60	J
IB-3-8-10	ACTD	8-10	4/8/2002	SO	SW8270C	System Artifact/Aldol-Condensation	N		24.0	J
LB-101-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		48.0	J
LB-101-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	system artifact (RT=4.18)	N		0.500	J
LB-101-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.440	J
LB-101-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	system artifact (RT=11.72)	N		0.170	J
LB-101-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		7.30	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	-Dibenzopyrene (RT=23.77)	N		0.630	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	-Dibenzopyrene (RT=24.18)	N		1.60	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	Unknown (RT=23.33)	N		0.850	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	-Dibenzopyrene (RT=22.99)	N		1.50	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	Unknown (RT=22.86)	N		0.180	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	Unknown (RT=22.2)	N		0.150	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	unknown (RT=24.73)	N		0.190	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	-Dibenzopyrene (RT=22.69)	N		2.60	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	-Dibenzopyrene (RT=24.41)	N		1.30	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	unknown PAH substance (RT=23.46)	N		0.200	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		1.60	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.400	J
LB-101-1-3	ACTD	1-3	12/6/2006	SO	SW8270C	-Dibenzopyrene (RT=24.12)	N		1.80	J
LB-102-0-1	ACTD	0-3	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		1.60	J
LB-102-0-1	ACTD	0-3	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.300	J
LB-102-0-1	ACTD	0-3	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		45.0	J
LB-102-0-1	ACTD	0-3	12/6/2006	SO	SW8270C	system artifact (RT=4.18)	N		1.30	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	Biphenyl pentachloro-(PCB) (RT=22.81)	N		0.450	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	Biphenyl pentachloro-(PCB) (RT=21.98)	N		0.410	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	unknown (RT=22.14)	N		0.290	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=24.62)	N		0.870	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=21.27)	N		0.460	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=23.06)	N		0.940	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=24.47)	N		0.490	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	Phenanthrene tetramethyl (RT=22.62)	N		0.700	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=21.49)	N		0.240	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		47.0	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=22.49)	N		1.10	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=19.65)	N		0.370	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	system artifact (RT=4.19)	N		0.410	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=23.6)	N		0.520	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=24.75)	N		0.700	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=21.86)	N		0.330	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=21.91)	N		0.440	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=25.1)	N		0.260	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=24.12)	N		0.690	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		7.50	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	Alkane (RT=23.54)	N		0.270	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.410	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	Unknown (RT=23.38)	N		0.330	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=22.96)	N		0.390	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	alkane (RT=23.93)	N		0.600	J
LB-102-1-3	ACTD	3-7	12/6/2006	SO	SW8270C	Unknown (RT=24.97)	N		0.660	J
LB-103-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		130.	J
LB-103-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.350	J
LB-103-5-7	ACTD	5-7	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		63.0	J
LB-103-5-7	ACTD	5-7	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.970	J
LB-103-5-7	ACTD	5-7	12/6/2006	SO	SW8270C	system artifact (RT=4.19)	N		0.380	J
LB-103-5-7	ACTD	5-7	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.620	J
LB-103-5-7	ACTD	5-7	12/6/2006	SO	SW8270C	system artifact (RT=11.7)	N		0.420	J
LHP-101-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		97.0	J
LHP-101-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		10.0	J
LHP-101-5-8	ACTD	4-8	12/4/2006	SO	SW8270C	C20H14O2	N		2.70	J
LHP-101-5-8	ACTD	4-8	12/4/2006	SO	SW8270C	Chloroaniline (RT=10.66)	N		1.70	J
LHP-101-5-8	ACTD	4-8	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		1.20	J
LHP-101-5-8	ACTD	4-8	12/4/2006	SO	SW8270C	system artifact (RT=11.78)	N		0.650	J
LHP-101-5-8	ACTD	4-8	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		39.0	J
LHP-101-5-8	ACTD	4-8	12/4/2006	SO	SW8270C	system artifact (RT=4.2)	N		1.80	J
LHP-101-5-8	ACTD	4-8	12/4/2006	SO	SW8270C	Benzenamine, -dichloro- (RT=14.31)	N		1.70	J
LHP-101-5-8	ACTD	4-8	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		150.	J
LHP-102-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=24.76)	N		0.160	J
LHP-102-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.40	J
LHP-102-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.230	J
LHP-102-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	system artifact (RT=2.71)	N		0.230	J
LHP-102-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		140.	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Naphthalene trimethyl (RT=12.82)	N		0.300	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	unknown (RT=12.28)	N		0.490	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Chrysene, -methyl- (RT=21.87)	N		0.290	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	unknown (RT=11.91)	N		0.430	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	unknown (RT=13.43)	N		0.270	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	cycloalkane/alkene (RT=11.53)	N		0.290	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Pyrene, -methyl- (RT=19.87)	N		0.290	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	unknown (RT=18.2)	N		0.280	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	unknown (RT=14.45)	N		0.410	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Phenol, (-tetramethylbutyl) (RT=13.48)	N		1.30	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Naphthalene trimethyl (RT=12.63)	N		0.310	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	unknown (RT=17.41)	N		0.490	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Unknown (RT=16.93)	N		0.260	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		180.	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Decahydro--pentamethylna (RT=11.32)	N		0.440	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Phenol, -tert-butyl- (RT=9.52)	N		0.580	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Benzenamine, -dichloro- (RT=10.05)	N		1.00	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.70	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Azulene, -ethyl--dimethyl- (RT=14.26)	N		0.480	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Unknown (RT=11.79)	N		0.330	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Naphthalene dimethyl (RT=11.05)	N		0.340	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	unknown (RT=24.73)	N		0.430	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Unknown (RT=23.29)	N		0.390	J
LHP-102-7-9	ACTD	7-9	12/5/2006	SO	SW8270C	Sulfur (RT=18.03)	N		0.420	J
LHP-103-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=24.74)	N		2.10	J
LHP-103-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		190.	J
LHP-103-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		2.00	J
LHP-103-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	system artifact (RT=25.3)	N		1.60	J
LHP-103-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	Unknown (RT=22.71)	N		0.230	J
LHP-103-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.600	J
LHP-103-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		130.	J
LHP-103-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	alkane (RT=17.53)	N		0.260	J
LHP-103-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	system artifact (RT=2.71)	N		0.180	J
LHP-103-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.800	J
LHP-104-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		95.0	J
LHP-104-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Unknown (RT=25.36)	N		0.180	J
LHP-104-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Alkane (RT=24.19)	N		0.230	J
LHP-104-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.960	J
LHP-104-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=24.29)	N		0.160	J
LHP-104-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.220	J
LHP-104-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=24.76)	N		0.290	J
LHP-104-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	alkane (RT=23.26)	N		0.160	J
LHP-104-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	system artifact (RT=8.06)	N		0.150	J
LHP-104-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	system artifact (RT=2.71)	N		0.370	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	Unknown (RT=15.06)	N		0.210	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	Unknown (RT=14.99)	N		0.260	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	Benzenamine,-dichloro- (RT=10.35)	N		0.490	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.160	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	Unknown (RT=14.56)	N		0.170	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	Unknown (RT=22.73)	N		0.260	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	Phenol, -tert-butyl- (RT=13.5)	N		0.910	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	unknown (RT=14.73)	N		0.500	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	Sulfur (RT=15.56)	N		0.160	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	Phenol, -tert-butyl- (RT=14.16)	N		0.240	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	Unknown (RT=14.81)	N		0.260	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	Benzenamine, -dichloro- (RT=10.07)	N		2.30	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	Naphthalene trimethyl (RT=12.84)	N		0.170	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.170	J
LHP-104-7-9	ACTD	4-8	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		140.	J
LHP-105-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.40	J
LHP-105-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Dibenzopyrene (RT=21.99)	N		0.990	J
LHP-105-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Unknown (RT=22.2)	N		1.40	J
LHP-105-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		140.	J
LHP-105-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	system artifact (RT=24.19)	N		0.710	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LHP-105-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=24.29)	N		0.850	J
LHP-105-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=24.76)	N		1.40	J
LHP-105-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=23.96)	N		0.820	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.190	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	Unknown (RT=23.05)	N		0.240	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	system artifact (RT=8.06)	N		0.270	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.210	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	Benzenamine, -methyl-nitro- (RT=12.43)	N		0.220	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	Naphthalenol (RT=12.52)	N		0.210	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	Mercaptobenzothiazole (RT=17.3)	N		0.610	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		120.	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	unknown PAH substance (RT=23.31)	N		0.250	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	unknown (RT=22.22)	N		9.50	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	Unknown (RT=22.73)	N		0.180	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	unknown (RT=23.83)	N		0.640	J
LHP-105-1-3	ACTD	1-3	12/5/2006	SO	SW8270C	unknown (RT=23.73)	N		0.180	J
LHP-106-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=24.97)	N		0.800	J
LHP-106-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=25.61)	N		1.20	J
LHP-106-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		120.	J
LHP-106-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		2.80	J
LHP-106-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=27.07)	N		0.810	J
LHP-106-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=23.54)	N		0.770	J
LHP-106-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=22.75)	N		0.730	J
LHP-106-1-3	ACTD	1-3	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		360.	J
LHP-106-1-3	ACTD	1-3	12/4/2006	SO	SW8270C	system artifact (RT=4.23)	N		2.60	J
LHP-106-1-3	ACTD	1-3	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		12.0	J
LHP-106-1-3	ACTD	1-3	12/4/2006	SO	SW8270C	system artifact (RT=11.75)	N		1.50	J
LHP-106-1-3	ACTD	1-3	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		2.70	J
LHP-107-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.240	J
LHP-107-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.30	J
LHP-107-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown PAH substance (RT=25.27)	N		0.170	J
LHP-107-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Unknown (RT=23.29)	N		0.580	J
LHP-107-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown PAH substance (RT=24.87)	N		0.210	J
LHP-107-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	system artifact (RT=2.7)	N		0.180	J
LHP-107-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Unknown (RT=23.05)	N		0.150	J
LHP-107-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown PAH substance (RT=25.68)	N		0.160	J
LHP-107-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		140.	J
LHP-107-5-7	ACTD	4-8	12/5/2006	SO	SW8270C	Sulfur (RT=12.3)	N		0.220	J
LHP-107-5-7	ACTD	4-8	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		150.	J
LHP-107-5-7	ACTD	4-8	12/5/2006	SO	SW8270C	Sulfur (RT=15.56)	N		0.160	J
LHP-107-5-7	ACTD	4-8	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.50	J
LHP-107-5-7	ACTD	4-8	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.190	J
LHP-107-5-7	ACTD	4-8	12/5/2006	SO	SW8270C	Benzenamine, -dichloro- (RT=10.08)	N		0.430	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		50.0	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=20.32)	N		0.290	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=22.16)	N		0.240	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=21.91)	N		0.220	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=23.41)	N		0.850	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=18.8)	N		0.290	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=23.94)	N		0.990	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=22.85)	N		0.850	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=18.74)	N		0.280	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.440	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=24.45)	N		0.660	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	unknown PAH substance (RT=22.96)	N		0.380	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=25.42)	N		0.490	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=22.49)	N		0.510	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	unknown PAH substance (RT=26.06)	N		0.260	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=24.94)	N		0.900	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=17.8)	N		0.250	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	unknown (RT=27.5)	N		0.720	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=22.27)	N		1.30	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	system artifact (RT=4.18)	N		2.90	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=26.33)	N		0.510	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	unknown PAH substance (RT=22.64)	N		1.00	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=21.01)	N		0.360	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=21.86)	N		0.320	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		2.10	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	unknown (RT=27.01)	N		0.610	J
LHP-108-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=25.87)	N		0.360	J
LHP-108-3-7	ACTD	3-7	12/6/2006	SO	SW8270C	system artifact (RT=4.19)	N		0.370	J
LHP-108-3-7	ACTD	3-7	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		60.0	J
LHP-108-3-7	ACTD	3-7	12/6/2006	SO	SW8270C	system artifact (RT=11.7)	N		0.460	J
LHP-108-3-7	ACTD	3-7	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.690	J
LHP-108-3-7	ACTD	3-7	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		2.80	J
LHP-108-3-7	ACTD	3-7	12/6/2006	SO	SW8270C	Unknown (RT=27)	N		0.180	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=22.27)	N		0.340	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=23.4)	N		0.210	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	system artifact (RT=4.18)	N		2.50	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=18.79)	N		0.180	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.550	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		54.0	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=23.94)	N		0.260	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=20.32)	N		0.170	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact (RT=11.71)	N		0.200	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=17.8)	N		0.210	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=18.74)	N		0.270	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	alkane (RT=22.85)	N		0.300	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		2.40	J
LHP-109-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	Biphenyl pentachloro-(PCB) (RT=22.48)	N		0.270	J
LHP-109-7-9	ACTD	7-9	12/6/2006	SO	SW8270C	Sulfur (RT=12.49)	N		0.240	J
LHP-109-7-9	ACTD	7-9	12/6/2006	SO	SW8270C	Sulfur (RT=18.23)	N		0.330	J
LHP-109-7-9	ACTD	7-9	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.510	J
LHP-109-7-9	ACTD	7-9	12/6/2006	SO	SW8270C	unknown (RT=24.95)	N		0.370	J
LHP-109-7-9	ACTD	7-9	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		2.00	J
LHP-109-7-9	ACTD	7-9	12/6/2006	SO	SW8270C	unknown (RT=24.34)	N		0.190	J
LHP-110-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=27.64)	N		2.00	J
LHP-110-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		120.	J
LHP-111-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact (RT=4.21)	N		0.420	J
LHP-111-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		42.0	J
LHP-111-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=11.77)	N		0.230	J
LHP-111-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		1.50	J
LHP-111-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.340	J
LHP-112-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		40.0	J
LHP-112-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=27.07)	N		0.330	J
LHP-112-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact (RT=4.22)	N		0.540	J
LHP-112-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.330	J
LHP-112-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown PAH substance (RT=26.11)	N		0.310	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LHP-112-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown PAH substance (RT=22.7)	N		0.250	J
LHP-112-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=11.77)	N		0.210	J
LHP-112-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=20.75)	N		0.250	J
LHP-112-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=27.57)	N		0.250	J
LHP-112-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		12.0	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=24.98)	N		0.210	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=22.75)	N		0.170	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=19.33)	N		0.240	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=26.06)	N		0.230	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		53.0	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=23.33)	N		0.150	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=23.54)	N		0.140	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=19.28)	N		0.260	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=21.96)	N		0.170	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=19.41)	N		0.200	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=19.01)	N		0.150	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		1.50	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact (RT=4.22)	N		0.400	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.280	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=27.55)	N		0.220	J
LHP-113-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=27.87)	N		0.240	J
LHP-114-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	alkane (RT=26.86)	N		0.230	J
LHP-114-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		11.0	J
LHP-114-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=21.64)	N		0.180	J
LHP-114-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		46.0	J
LHP-114-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact (RT=4.22)	N		0.500	J
LHP-114-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=11.77)	N		0.230	J
LHP-114-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.420	J
LHP-115-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		44.0	J
LHP-115-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=27.57)	N		0.170	J
LHP-115-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=11.77)	N		0.220	J
LHP-115-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.370	J
LHP-115-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact (RT=4.21)	N		0.430	J
LHP-115-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		1.70	J
LHP-116-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		1.80	J
LHP-116-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.390	J
LHP-116-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=4.2)	N		0.440	J
LHP-116-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=11.77)	N		0.250	J
LHP-117-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown PAH substance (RT=24.36)	N		0.230	J
LHP-117-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=11.77)	N		0.240	J
LHP-117-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		45.0	J
LHP-117-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=26.06)	N		0.810	J
LHP-117-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		9.50	J
LHP-117-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=24.98)	N		0.210	J
LHP-117-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=28.19)	N		0.160	J
LHP-117-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=27.85)	N		0.900	J
LHP-117-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=25.97)	N		0.550	J
LHP-117-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact (RT=4.22)	N		0.390	J
LHP-117-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.380	J
LHP-118-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		130.	J
LHP-118-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=22.75)	N		0.900	J
LHP-118-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		3.20	J
LHP-119-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.610	J
LHP-119-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=4.23)	N		0.310	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LHP-119-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		2.60	J
LHP-119-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=28.19)	N		0.300	J
LHP-119-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		68.0	J
LHP-119-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=11.75)	N		0.350	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=28.15)	N		0.190	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		2.50	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	alkane (RT=18.82)	N		0.220	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.620	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=20.72)	N		0.230	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	alkane (RT=25.89)	N		0.210	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	alkane (RT=22.87)	N		0.190	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	alkane (RT=17.83)	N		0.190	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=27.53)	N		0.330	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		64.0	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	alkane (RT=22.29)	N		0.190	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	alkane (RT=26.84)	N		0.340	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact (RT=4.22)	N		0.400	J
LHP-120-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	alkane (RT=24.96)	N		0.230	J
LHP-121-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		5.00	J
LHP-121-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact (RT=11.71)	N		0.280	J
LHP-121-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.470	J
LHP-121-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		54.0	J
LHP-121-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	system artifact (RT=4.2)	N		0.230	J
LHP-122-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.510	J
LHP-122-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		7.30	J
LHP-122-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	unknown (RT=27.5)	N		0.490	J
LHP-122-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		50.0	J
LHP-122-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	system artifact (RT=4.18)	N		2.20	J
LHP-122-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact (RT=11.71)	N		0.190	J
LHP-123-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown PAH substance (RT=22.68)	N		0.180	J
LHP-123-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=27.08)	N		0.210	J
LHP-123-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	alkane (RT=22.32)	N		0.160	J
LHP-123-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.450	J
LHP-123-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	system artifact (RT=4.23)	N		0.550	J
LHP-123-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=27.58)	N		0.280	J
LHP-123-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		20.0	J
LHP-124-.5-2	ACTD	0.5-2	10/27/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		85.0	J
LHP-124-.5-2	ACTD	0.5-2	10/27/2006	SO	SW8270C	Unknown (RT=16.94)	N		0.170	J
LHP-124-.5-2	ACTD	0.5-2	10/27/2006	SO	SW8270C	Unknown PAH Substance (RT=19.53)	N		0.180	J
LHP-124-10-12	ACTD	10-12	10/31/2006	SO	SW8270C	Unknown (RT=27.78)	N		1.20	J
LHP-124-10-12	ACTD	10-12	10/31/2006	SO	SW8270C	Unknown (RT=29.3)	N		0.490	J
LHP-124-10-12	ACTD	10-12	10/31/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		83.0	J
LHP-124-10-12	ACTD	10-12	10/31/2006	SO	SW8270C	System Artifact (RT=4.15)	N		0.310	J
LHP-124-10-12	ACTD	10-12	10/31/2006	SO	SW8270C	Unknown (RT=28.76)	N		0.330	J
LHP-124-10-12	ACTD	10-12	10/31/2006	SO	SW8270C	System Artifact (RT=11.71)	N		0.400	J
LHP-124-2-4	ACTD	2-4	10/27/2006	SO	SW8270C	Unknown	N		0.390	J
LHP-124-2-4	ACTD	2-4	10/27/2006	SO	SW8270C	Unknown (RT=10.89)	N		0.160	J
LHP-124-2-4	ACTD	2-4	10/27/2006	SO	SW8270C	Unknown (RT=12.84)	N		0.180	J
LHP-124-2-4	ACTD	2-4	10/27/2006	SO	SW8270C	Unknown (RT=10.66)	N		0.310	J
LHP-124-2-4	ACTD	2-4	10/27/2006	SO	SW8270C	Unknown (RT=10.43)	N		0.200	J
LHP-124-2-4	ACTD	2-4	10/27/2006	SO	SW8270C	Unknown (RT=22.71)	N		0.900	J
LHP-124-2-4	ACTD	2-4	10/27/2006	SO	SW8270C	Unknown PAH Substance (RT=16.76)	N		0.170	J
LHP-124-2-4	ACTD	2-4	10/27/2006	SO	SW8270C	Unknown PAH Substance (RT=19.89)	N		0.190	J
LHP-124-2-4	ACTD	2-4	10/27/2006	SO	SW8270C	1h-Indene, Octahydro-Hexamethyl- (RT=11.	N		0.370	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LHP-124-2-4	ACTD	2-4	10/27/2006	SO	SW8270C	Unknown PAH Substance (RT=19.53)	N		0.380	J
LHP-124-2-4	ACTD	2-4	10/27/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		110.	J
LHP-124-28-30	ACTD	28-30	10/31/2006	SO	SW8270C	System Artifact (RT=4.13)	N		0.200	J
LHP-124-28-30	ACTD	28-30	10/31/2006	SO	SW8270C	System Artifact (RT=11.69)	N		0.380	J
LHP-124-28-30	ACTD	28-30	10/31/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		70.0	J
LHP-125-.5-2	ACTD	0.5-2	10/27/2006	SO	SW8270C	Unknown (RT=19.53)	N		0.210	J
LHP-125-.5-2	ACTD	0.5-2	10/27/2006	SO	SW8270C	Unknown (RT=22.19)	N		0.380	J
LHP-125-.5-2	ACTD	0.5-2	10/27/2006	SO	SW8270C	Unknown (RT=16.93)	N		0.180	J
LHP-125-.5-2	ACTD	0.5-2	10/27/2006	SO	SW8270C	Unknown PAH Substance (RT=19.71)	N		0.180	J
LHP-125-.5-2	ACTD	0.5-2	10/27/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		100.	J
LHP-125-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=25.59)	N		0.260	J
LHP-125-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		60.0	J
LHP-125-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	System Artifact (RT=4.14)	N		0.190	J
LHP-125-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=26.03)	N		0.440	J
LHP-125-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=25.07)	N		1.00	J
LHP-125-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=28.72)	N		0.230	J
LHP-125-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=27.34)	N		0.200	J
LHP-125-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=29.13)	N		0.180	J
LHP-125-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	System Artifact (RT=11.68)	N		0.380	J
LHP-125-12-14	ACTD	12-14	11/1/2006	SO	SW8270C	System Artifact (RT=11.68)	N		0.300	J
LHP-125-12-14	ACTD	12-14	11/1/2006	SO	SW8270C	Unknown (RT=25.16)	N		0.500	J
LHP-125-12-14	ACTD	12-14	11/1/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		57.0	J
LHP-125-12-14	ACTD	12-14	11/1/2006	SO	SW8270C	System Artifact (RT=4.15)	N		0.210	J
LHP-125-4-6	ACTD	4-6	10/27/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		110.	J
LHP-125-4-6	ACTD	4-6	10/27/2006	SO	SW8270C	Alkane (RT=21.73)	N		0.180	J
LHP-125-4-6	ACTD	4-6	10/27/2006	SO	SW8270C	System Artifact (RT=8.08)	N		0.160	J
LHP-125-4-6	ACTD	4-6	10/27/2006	SO	SW8270C	Alkane (RT=22.25)	N		0.170	J
LHP-126-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=23.35)	N		0.820	J
LHP-126-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		1.00	J
LHP-126-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	System Artifact (RT=11.68)	N		2.30	J
LHP-126-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=23.29)	N		0.650	J
LHP-126-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=29.25)	N		1.20	J
LHP-126-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=25.11)	N		0.860	J
LHP-126-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		330.	J
LHP-126-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	System Artifact (RT=4.14)	N		1.30	J
LHP-126-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=28.73)	N		3.20	J
LHP-126-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=28.89)	N		0.760	J
LHP-126-10.5-12	ACTD	10.5-12	11/1/2006	SO	SW8270C	Unknown (RT=29.14)	N		1.10	J
LHP-126-14-16	ACTD	14-16	11/1/2006	SO	SW8270C	System Artifact (RT=11.68)	N		0.300	J
LHP-126-14-16	ACTD	14-16	11/1/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		60.0	J
LHP-126-14-16	ACTD	14-16	11/1/2006	SO	SW8270C	System Artifact (RT=4.15)	N		0.200	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		59.0	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	Alkane (RT=18.89)	N		0.180	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	Alkane (RT=22.95)	N		0.590	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	Alkane (RT=23.51)	N		0.970	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	Alkane (RT=24.04)	N		0.280	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	Alkane (RT=21.11)	N		0.420	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	Unknown PAH Substance (RT=20.79)	N		0.220	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	Alkane (RT=20.42)	N		0.180	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	System Artifact (RT=4.22)	N		0.550	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	Alkane (RT=24.56)	N		1.70	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.300	J
LHP-126-2-4	ACTD	2-4	10/26/2006	SO	SW8270C	Alkane (RT=25.98)	N		1.40	J
LHP-126-8-10	ACTD	9-10	10/26/2006	SO	SW8270C	Alkane (RT=25.05)	N		0.630	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LHP-126-8-10	ACTD	9-10	10/26/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.180	J
LHP-126-8-10	ACTD	9-10	10/26/2006	SO	SW8270C	Alkane (RT=22.95)	N		0.500	J
LHP-126-8-10	ACTD	9-10	10/26/2006	SO	SW8270C	Alkane (RT=21.11)	N		0.310	J
LHP-126-8-10	ACTD	9-10	10/26/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.200	J
LHP-126-8-10	ACTD	9-10	10/26/2006	SO	SW8270C	System Artifact (RT=4.21)	N		0.600	J
LHP-126-8-10	ACTD	9-10	10/26/2006	SO	SW8270C	Alkane (RT=24.04)	N		0.340	J
LHP-126-8-10	ACTD	9-10	10/26/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		66.0	J
LHP-126-8-10	ACTD	9-10	10/26/2006	SO	SW8270C	Unknown (RT=21.96)	N		0.390	J
LHP-126-8-10	ACTD	9-10	10/26/2006	SO	SW8270C	System Artifact (RT=11.8)	N		0.280	J
LHP-126-8-10	ACTD	9-10	10/26/2006	SO	SW8270C	Alkane (RT=24.56)	N		0.990	J
LHP-127-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.430	J
LHP-127-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		55.0	J
LHP-127-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	unknown (RT=24.62)	N		0.390	J
LHP-127-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	system artifact (RT=4.16)	N		3.20	J
LHP-127-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	Unknown (RT=26.65)	N		1.30	J
LHP-127-0-1	ACTD	0-1	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		2.10	J
LHP-127-3-5	ACTD	3-5	12/6/2006	SO	SW8270C	Unknown (RT=27.49)	N		0.190	J
LHP-127-3-5	ACTD	3-5	12/6/2006	SO	SW8270C	System Artifact (RT=11.69)	N		0.420	J
LHP-127-3-5	ACTD	3-5	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		55.0	J
LHP-127-3-5	ACTD	3-5	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.590	J
LHP-127-3-5	ACTD	3-5	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		8.60	J
LHP-127-3-5	ACTD	3-5	12/6/2006	SO	SW8270C	system artifact (RT=4.19)	N		0.330	J
LHP-127-3-5	ACTD	3-5	12/6/2006	SO	SW8270C	Unknown (RT=25.38)	N		0.250	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=18.83)	N		1.80	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	Naphthalene trimethyl (RT=17.63)	N		1.70	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	Naphthalene trimethyl (RT=17.79)	N		1.70	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=22.88)	N		4.10	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	Naphthalene, -propenyl)- (RT=17.96)	N		2.50	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=17.9)	N		5.60	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=22.32)	N		6.40	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		2.00	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=15.36)	N		5.70	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=13.66)	N		4.90	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	unknown (RT=15.82)	N		2.00	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=23.43)	N		2.00	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		58.0	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	cycloalkane/alkene (RT=16.08)	N		3.00	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=13.18)	N		2.60	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=17.3)	N		1.70	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=16.37)	N		1.70	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	Cycloalkane/Alkene (RT=14.41)	N		1.80	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	unknown (RT=22.24)	N		2.00	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	Unknown (RT=17.38)	N		3.00	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	Naphthalene trimethyl (RT=17.17)	N		1.70	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	Alkane (RT=16.78)	N		5.30	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	Naphthalene trimethyl (RT=17.23)	N		1.90	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	Alkane (RT=14.96)	N		3.50	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	unknown (RT=16.48)	N		1.80	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	Naphthalene trimethyl (RT=17.41)	N		1.90	J
LHP-128-0-1	ACTD	0-4	12/6/2006	SO	SW8270C	alkane (RT=16.28)	N		3.70	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	Benzene, -dichloro- (RT=8.75)	N		0.570	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	alkane (RT=22.26)	N		0.210	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	alkane (RT=23.4)	N		0.260	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		62.0	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	system artifact (RT=4.18)	N		0.410	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.640	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	Benzenamine, -dichloro- (RT=14.23)	N		2.80	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		0.310	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	unknown (RT=11.7)	N		0.570	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	unknown (RT=21.35)	N		1.30	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	Chloroaniline (RT=10.58)	N		0.340	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		1.70	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	unknown (RT=16.87)	N		0.190	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	unknown (RT=25.3)	N		0.290	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	alkane (RT=25.4)	N		0.240	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	Phenol, -(-tetramethylbutyl)- (RT=17.93)	N		1.10	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	Naphthalene dimethyl (RT=15.47)	N		0.250	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	unknown (RT=28.64)	N		0.410	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	Benzenamine, -dichloro- (RT=14.57)	N		1.00	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	alkane (RT=18.79)	N		0.300	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	alkane (RT=18.74)	N		0.190	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	alkane (RT=22.84)	N		0.190	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	unknown (RT=22.62)	N		0.320	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	unknown (RT=21.86)	N		1.10	J
LHP-128-7-8	ACTD	17-17	12/6/2006	SO	SW8270C	unknown (RT=21.49)	N		0.230	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.170	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.220	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.270	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	C20H14O2	N		0.220	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.220	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		2.50	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	C14H8S2	N		0.620	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.350	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.220	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.360	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	C20H12	N		0.180	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		1.00	JB
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.230	J
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Benzene, Chloroethenyl-	N		0.320	JB
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.170	JB
LP-1-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.620	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		0.580	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		0.240	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Cycloalkane	N		0.600	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	System Artifact	N		0.230	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		0.480	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Isomer Of C26H48	N		0.220	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Isomer Of C15H12	N		0.270	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		0.340	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		0.220	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		0.230	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		1.40	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		0.280	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		0.370	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	C14H8S2	N		0.320	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		0.370	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		0.460	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Benzene, 1,2,4-Trichloro-	N		0.240	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Isomer Of C22H12	N		0.270	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Carbon Dioxide	N		0.220	JB
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		0.330	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Acetaldehyde	N		0.230	JB
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		0.220	JB
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		0.260	J
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		0.480	JB
LP-10-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		1.40	JB
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		3.30	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.260	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		2.20	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.250	JB
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		1.70	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		1.10	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.370	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.850	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.460	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	9,10-Anthracenedione, 1-Amino-Chloro	N		0.730	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	C14H8S2	N		0.650	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.480	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.230	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.620	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.300	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Phosphoric Acid, Tris(-Methylphen	N		0.370	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C26H48	N		0.370	JB
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		5.70	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.470	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Octachloro(PCB)	N		0.320	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.440	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.560	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.370	J
LP-10-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-101-11-13	ACTD	11-13	11/2/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		83.0	J
LP-101-11-13	ACTD	11-13	11/2/2006	SO	SW8270C	Unknown (RT=24.23)	N		0.950	J
LP-101-11-13	ACTD	11-13	11/2/2006	SO	SW8270C	System Artifact (RT=4.14)	N		0.370	J
LP-101-11-13	ACTD	11-13	11/2/2006	SO	SW8270C	System Artifact (RT=11.69)	N		0.400	J
LP-101-14-16	ACTD	14-16	11/2/2006	SO	SW8270C	System Artifact (RT=4.15)	N		0.360	J
LP-101-14-16	ACTD	14-16	11/2/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		67.0	J
LP-101-14-16	ACTD	14-16	11/2/2006	SO	SW8270C	System Artifact (RT=11.68)	N		0.390	J
LP-101-14-16	ACTD	14-16	11/2/2006	SO	SW8270C	Unknown (RT=25.18)	N		0.450	J
LP-101-26-28	ACTD	26-28	11/2/2006	SO	SW8270C	Unknown (RT=25.16)	N		0.290	J
LP-101-26-28	ACTD	26-28	11/2/2006	SO	SW8270C	System Artifact (RT=11.68)	N		0.240	J
LP-101-26-28	ACTD	26-28	11/2/2006	SO	SW8270C	System Artifact (RT=4.15)	N		0.190	J
LP-101-26-28	ACTD	26-28	11/2/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		48.0	J
LP-101-50-52	ACTD	50-52	11/2/2006	SO	SW8270C	System Artifact (RT=11.68)	N		0.220	J
LP-101-50-52	ACTD	50-52	11/2/2006	SO	SW8270C	System Artifact (RT=4.14)	N		0.160	J
LP-101-50-52	ACTD	50-52	11/2/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		44.0	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.920	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		6.70	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.680	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C22H12	N		1.00	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		4.90	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		1.20	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C20H12	N		2.30	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.670	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		2.10	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.620	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.680	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.780	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.810	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		1.50	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.660	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.670	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		2.30	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.600	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		2.00	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.790	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.530	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C26H48	N		1.10	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	System Artifact	N		1.10	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.860	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.660	J
LP-11-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		1.10	JB
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.530	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.380	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.540	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Benzo[b]thiophene, Methyl-	N		0.610	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.270	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.320	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.270	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.730	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.370	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.380	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.320	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.260	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.840	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.690	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.340	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.320	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.330	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Benzothiophene	N		0.380	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.350	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.280	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.610	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		1.60	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.330	J
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.220	JB
LP-12-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.330	J
LP-12-4-6	ACTD	4-6	8/27/2001	SO	SW8270C	Unknown	N		0.200	J
LP-12-4-6	ACTD	4-6	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-12-4-6	ACTD	4-6	8/27/2001	SO	SW8270C	Unknown	N		1.10	JB
LP-12-4-6	ACTD	4-6	8/27/2001	SO	SW8270C	Unknown	N		0.190	JB
LP-12-4-6	ACTD	4-6	8/27/2001	SO	SW8270C	Alkane	N		0.200	JB
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.240	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.180	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.750	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.350	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.300	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.400	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	1,1'-Biphenyl, '-Hexachloro(PCB)	N		0.410	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.360	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.500	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.500	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		1.10	JB
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.180	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.300	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.180	J
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.210	JB
LP-13-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		1.00	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.390	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.460	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.580	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Dichlorobenzene	N		0.260	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Unknown	N		2.30	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.490	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.480	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.820	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.610	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.270	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.900	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Unknown	N		0.450	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.540	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.540	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.410	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		1.30	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	C14H8S2	N		0.320	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.420	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Alkane	N		0.330	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Unknown	N		0.470	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	System Artifact	N		0.360	JB
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Unknown	N		0.270	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Unknown	N		0.270	JB
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Propane, Ethoxy-Methyl-	N		1.40	JB
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Unknown	N		1.80	J
LP-14-0.5-2	ACTD	0.5-2	8/24/2001	SO	SW8270C	Unknown	N		0.820	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Isomer Of C15H12	N		3.00	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		2.80	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	1,1'-Biphenyl, Dimethyl-	N		1.70	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		3.70	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		4.30	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Azulene, -Ethyl-Dimethyl-	N		1.80	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		4.00	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Azulene, -Ethyl-Dimethyl-	N		2.30	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Phenanthrene, Trimethyl-	N		2.20	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		3.80	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		3.10	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		3.90	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		2.90	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		5.00	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		4.40	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		4.80	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		4.50	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		6.20	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Naphthalene Trimethyl	N		2.60	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		3.20	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		1.90	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		2.70	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown C13H12	N		1.70	J
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		1.90	JB
LP-14-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Naphthalene Trimethyl	N		2.40	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	1,1'-Biphenyl, '-Hexachloro(PCB)	N		0.200	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Naphthalene Tetrahydro-Methyl	N		0.170	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.500	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.390	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.250	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.210	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.180	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.180	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.160	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.160	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Propane, Ethoxy-Methyl-	N		1.60	JB
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.220	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.380	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.270	JB
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.450	J
LP-15-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	System Artifact	N		0.520	JB
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		4.20	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		2.90	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		2.10	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		2.30	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		3.40	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		3.70	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		3.30	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		2.10	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		3.10	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		2.40	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Isomer Of C22H12	N		3.50	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		2.20	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		3.30	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		6.80	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		2.40	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		4.50	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		2.70	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		2.40	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Isomer Of C20H12	N		2.20	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		2.30	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Unknown	N		2.90	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		2.40	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Alkane	N		3.00	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Benzene, 1,2,4-Trichloro-	N		3.10	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Cyclohexane Alkyl	N		2.20	J
LP-16-0.5-2	ACTD	0.5-2	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.430	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.440	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		1.10	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.520	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C20H12	N		1.60	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		1.70	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.520	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.530	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		1.00	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.390	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.380	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.590	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C20H12	N		0.510	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.770	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.440	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.380	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		1.20	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.470	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.400	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	C20H12	N		0.630	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.540	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.480	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		1.40	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.540	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.380	J
LP-16-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		1.00	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Alkane	N		0.440	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	C14H12S	N		0.470	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		3.40	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Alkane	N		1.20	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.420	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		4.30	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Alkane	N		0.430	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		13.0	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		0.690	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Alkane	N		0.440	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		1.10	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Alkane	N		0.440	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	C14H8S2	N		0.920	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.370	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		0.570	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		2.40	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.480	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Naphthalene, Dichloro-	N		0.390	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Pyrene, -Tetrachloro-	N		0.360	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.510	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		1.30	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		2.50	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Alkane	N		0.420	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		17.0	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Alkane	N		4.50	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Alkane	N		0.380	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Unknown	N		1.30	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Naphthalene, Dichloro-	N		0.410	J
LP-2-0.5-2	ACTD	0.5-2	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		0.510	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	C14H8S2	N		44.0	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	C9H18O	N		0.630	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Alkane	N		6.80	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		22.0	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Isomer Of C22H12	N		3.40	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Alkane	N		1.70	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		2.70	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		3.00	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Alkyl Benzene	N		0.540	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Phenol, (tetramethylbutyl)-	N		1.00	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Naphthalene, Dichloro-	N		0.540	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Naphthalene, Dichloro-	N		10.0	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Alkane	N		3.40	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		14.0	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		0.560	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		0.600	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		6.20	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		13.0	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Alkane	N		0.570	J
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Unknown	N		1.40	JB
LP-2-0-0.5	ACTD	0-0.5	8/28/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.290	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.360	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	C14H8S2	N		0.280	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C20H12	N		0.400	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.310	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.240	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	C17H12O	N		0.270	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.240	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.250	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.240	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.260	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.220	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.320	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.460	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.250	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.400	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.250	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C17H12	N		0.250	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Cycloalkane	N		0.260	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.430	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.250	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.480	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.270	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.240	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.360	J
LP-3-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Unknown	N		0.300	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Alkane	N		0.210	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Alkane	N		0.520	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Alkane	N		0.240	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Alkane	N		0.320	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Unknown	N		0.220	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Unknown	N		4.40	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Unknown	N		0.790	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	1h-Indene-Dihydro-Methyl	N		0.430	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	1-Amino-4-Bromoanthraquinone	N		2.00	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Alkane	N		0.280	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Alkane	N		0.250	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.220	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Unknown	N		0.240	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Unknown	N		0.430	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Unknown	N		0.810	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.230	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Alkane	N		2.00	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Unknown	N		0.300	JB
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Unknown	N		0.620	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Unknown	N		3.80	J
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.240	JB
LP-4 .5-2	ACTD	0.5-2	8/21/2001	SO	SW8270C	Unknown	N		0.980	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	C10H18	N		0.260	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.320	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		0.180	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.190	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Carbon Dioxide	N		0.210	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		0.170	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		0.180	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		1.80	JB
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.280	JB
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	System Artifact	N		0.300	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.220	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.330	JB
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.340	J
LP-4 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.320	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Carbon Dioxide	N		0.240	JB
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.260	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.330	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		1.10	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.360	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.540	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.220	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.350	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.300	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.730	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.420	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.900	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.230	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Octachloro-(PCB)	N		0.230	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.260	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.20	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.260	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.630	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.200	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C22H14	N		0.320	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.620	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.480	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.320	JB
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.310	J
LP-5-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Benzene, Chloroethenyl-	N		0.390	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.440	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.630	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.450	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	1,1'-Biphenyl,Octachloro(PCB)	N		0.480	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.540	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.390	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.980	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.560	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C20H12	N		1.50	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.520	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		1.30	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C22H12	N		0.600	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.660	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.520	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Benzothiophene	N		0.540	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Anthracene, Chloro-	N		0.750	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C22H12	N		0.640	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.510	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Isomer Of C20H12	N		0.680	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.520	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.810	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		0.560	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Unknown	N		1.10	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		0.540	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Alkane	N		1.10	J
LP-6-0-0.5	ACTD	0-0.5	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-6-4-6	ACTD	4-6	8/27/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-6-4-6	ACTD	4-6	8/27/2001	SO	SW8270C	Unknown	N		1.40	JB
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		3.20	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.790	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Naphthalene, Dichloro-	N		0.220	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.440	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.280	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.690	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.660	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.500	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		1.10	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Anthracene, Chloro-	N		2.00	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.250	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.340	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.300	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		2.40	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.350	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		2.10	JB
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.350	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.500	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		1.20	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		1.10	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Naphthalene, Dichloro-	N		0.360	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		2.30	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.300	J
LP-7-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		1.20	J
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	C4H9CLO2	N		0.250	J
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	C22H12	N		1.00	J
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	System Artifact	N		0.160	J
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.280	J
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.270	JB
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkyne	N		0.240	J
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.180	J
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		1.70	JB
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.460	JB
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.480	J
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		1.60	J
LP-8-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.370	J
LP-8-10-12	ACTD	10-12	8/24/2001	SO	SW8270C	Alkane	N		1.20	J
LP-8-10-12	ACTD	10-12	8/24/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.480	J
LP-8-10-12	ACTD	10-12	8/24/2001	SO	SW8270C	System Artifact	N		0.260	J
LP-8-10-12	ACTD	10-12	8/24/2001	SO	SW8270C	Unknown	N		0.500	J
LP-8-10-12	ACTD	10-12	8/24/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-8-10-12	ACTD	10-12	8/24/2001	SO	SW8270C	Unknown	N		0.630	JB
LP-8-10-12	ACTD	10-12	8/24/2001	SO	SW8270C	Unknown	N		0.360	JB
LP-8-10-12	ACTD	10-12	8/24/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		2.00	JB
LP-8-10-12	ACTD	10-12	8/24/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.250	J
LP-9-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.820	J
LP-9-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Alkane	N		0.770	J
LP-9-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
LP-9-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.850	J
LP-9-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		0.800	J
LP-9-0-0.5	ACTD	0-0.5	8/24/2001	SO	SW8270C	Unknown	N		1.90	JB
MW-11D-12-14	ACTD	12-14	12/14/2006	SO	SW8270C	Naphthalene, -dichloro- (RT=13.02)	N		0.490	J
MW-11D-12-14	ACTD	12-14	12/14/2006	SO	SW8270C	Benzothienobenzothiophene (RT=20.3)	N		0.490	J
MW-11D-12-14	ACTD	12-14	12/14/2006	SO	SW8270C	Methanone, -naphthalenylphenyl- (RT=19.0	N		0.830	J
MW-11D-12-14	ACTD	12-14	12/14/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		240.	J
MW-11D-12-14	ACTD	12-14	12/14/2006	SO	SW8270C	unknown (RT=18.65)	N		2.10	J
MW-11D-12-14	ACTD	12-14	12/14/2006	SO	SW8270C	9H-Fluorene, -phenyl- (RT=19.61)	N		0.790	J
MW-11D-12-14	ACTD	12-14	12/14/2006	SO	SW8270C	system artifact (RT=2.73)	N		0.240	J
MW-11D-12-14	ACTD	12-14	12/14/2006	SO	SW8270C	unknown (RT=25.88)	N		0.420	J
MW-11D-12-14	ACTD	12-14	12/14/2006	SO	SW8270C	Butadiene, -hexachloro (RT=8.18)	N		0.300	J
MW-11D-12-14	ACTD	12-14	12/14/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		2.20	J
MW-11D-12-14	ACTD	12-14	12/14/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.470	J
MW-11D-14-16	ACTD	14-16	12/14/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.360	J
MW-11D-14-16	ACTD	14-16	12/14/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		160.	J
MW-11D-14-16	ACTD	14-16	12/14/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.60	J
MW-11D-14-16	ACTD	14-16	12/14/2006	SO	SW8270C	system artifact (RT=2.75)	N		0.170	J
MW-11D-16-18	ACTD	16-18	12/14/2006	SO	SW8270C	system artifact (RT=23.34)	N		0.230	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
MW-11D-16-18	ACTD	16-18	12/14/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		170.	J
MW-11D-16-18	ACTD	16-18	12/14/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.820	J
MW-11D-16-18	ACTD	16-18	12/14/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.610	J
MW-14D-13-15	ACTD	13-15	11/14/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		74.0	J
MW-14D-13-15	ACTD	13-15	11/14/2006	SO	SW8270C	system artifact (RT=11.57)	N		0.300	J
MW-14D-13-15	ACTD	13-15	11/14/2006	SO	SW8270C	System Artifact (RT=4.06)	N		0.180	J
MW-14D-17-19	ACTD	17-19	11/14/2006	SO	SW8270C	System Artifact (RT=3.91)	N		0.160	J
MW-14D-17-19	ACTD	17-19	11/14/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		1.00	J
MW-16D-13-15	ACTD	13-15	11/17/2006	SO	SW8270C	Unknown Acid (RT=2.96)	N		1.50	J
MW-16D-13-15	ACTD	13-15	11/17/2006	SO	SW8270C	Unknown Acid (RT=14.18)	N		0.450	J
MW-16D-13-15	ACTD	13-15	11/17/2006	SO	SW8270C	Unknown Acid (RT=4.37)	N		0.520	J
MW-16D-13-15	ACTD	13-15	11/17/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.270	J
MW-16D-13-15	ACTD	13-15	11/17/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		80.0	J
MW-16D-13-15	ACTD	13-15	11/17/2006	SO	SW8270C	Unknown Acid (RT=12.7)	N		0.200	J
MW-16D-13-15	ACTD	13-15	11/17/2006	SO	SW8270C	System Artifact (RT=11.54)	N		0.510	J
MW-16D-17-19	ACTD	17-19	11/20/2006	SO	SW8270C	System Artifact (RT=11.55)	N		0.330	J
MW-16D-17-19	ACTD	17-19	11/20/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.220	J
MW-16D-17-19	ACTD	17-19	11/20/2006	SO	SW8270C	System Artifact (RT=4.02)	N		0.280	J
MW-16D-17-19	ACTD	17-19	11/20/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		48.0	J
MW-16D-17-19	ACTD	17-19	11/20/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.230	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Unknown (RT=14.4)	N		0.210	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Unknown (RT=15.23)	N		0.300	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=14.98)	N		1.20	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Phenol, (-methylpropyl)- (RT=16.14)	N		0.430	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Unknown (RT=14.57)	N		1.20	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Phenol, -(-tetramethylbutyl) (RT=14.65)	N		2.40	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Phenol, nonyl- (RT=14.75)	N		3.00	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Benzenamine,dichloro- (RT=10.15)	N		24.0	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		2.60	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Nonylphenol (RT=15.17)	N		1.70	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Unknown (RT=14.18)	N		0.560	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Phenol, (-phenylethyl)- (RT=16.02)	N		0.310	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Nonylphenol (RT=14.83)	N		1.00	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Unknown (RT=16.98)	N		0.310	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Sulfur, mol. (S8) (RT=18.15)	N		1.60	JN
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Nonyl Phenol (RT=15.08) TIC	N		1.80	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Benzene, dichloro- (RT=5.91)	N		0.240	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Chloroaniline (RT=7.27)	N		11.0	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Unknown (RT=8.94)	N		0.330	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Naphthalene, 1-methyl- (RT=9.89)	N		0.220	JN
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Phenol, -(tetramethylbutyl) (RT=15.26)	N		1.60	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Unknown (RT=11.56)	N		0.230	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Benzenamine,dichloro- (RT=10.42)	N		11.0	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Unknown (RT=11.12)	N		0.420	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Benzenamine,dichloro- (RT=11.43)	N		1.90	J
MW-17D-15-17	ACTD	15-17	11/10/2006	SO	SW8270C	Phenol, -(-tetramethylbutyl) (RT=13.53)	N		1.50	J
MW-17D-17-19	ACTD	17-19	11/10/2006	SO	SW8270C	System Artifact (RT=3.22)	N		3.20	J
MW-17D-17-19	ACTD	17-19	11/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		79.0	J
MW-18D-13-15	ACTD	13-15	11/13/2006	SO	SW8270C	Unknown (RT=25.21)	N		0.330	J
MW-18D-13-15	ACTD	13-15	11/13/2006	SO	SW8270C	system artifact (RT=11.58)	N		0.330	J
MW-18D-13-15	ACTD	13-15	11/13/2006	SO	SW8270C	unknown (RT=28.99)	N		0.380	J
MW-18D-13-15	ACTD	13-15	11/13/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		78.0	J
MW-18D-13-15	ACTD	13-15	11/13/2006	SO	SW8270C	System Artifact (RT=4.06)	N		0.200	J
MW-18D-17-19	ACTD	17-19	11/13/2006	SO	SW8270C	unknown (RT=24.64)	N		0.890	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
MW-18D-17-19	ACTD	17-19	11/13/2006	SO	SW8270C	System Artifact (RT=4.06)	N		0.200	J
MW-18D-17-19	ACTD	17-19	11/13/2006	SO	SW8270C	system artifact (RT=11.57)	N		0.300	J
MW-18D-17-19	ACTD	17-19	11/13/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		72.0	J
MW-20D-12-14	ACTD	12-14	11/9/2006	SO	SW8270C	Sulfur (RT=16.26)	N		0.330	J
MW-20D-12-14	ACTD	12-14	11/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		150.	J
MW-20D-12-14	ACTD	12-14	11/9/2006	SO	SW8270C	Unknown Acid (RT=3.26)	N		1.10	J
MW-20D-12-14	ACTD	12-14	11/9/2006	SO	SW8270C	Sulfur (RT=12.97)	N		0.410	J
MW-20D-12-14	ACTD	12-14	11/9/2006	SO	SW8270C	Unknown (RT=26.74)	N		0.180	J
MW-20D-32-34	ACTD	32-32.9	11/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		3.90	J
MW-20D-36-38	ACTD	36-38	11/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		2.50	J
MW-20D-36-38	ACTD	36-38	11/10/2006	SO	SW8270C	Unknown (RT=22.73)	N		0.250	J
MW-21D-13-15	ACTD	13-13.7	11/16/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.440	J
MW-21D-13-15	ACTD	13-13.7	11/16/2006	SO	SW8270C	System Artifact (RT=11.56)	N		0.580	J
MW-21D-13-15	ACTD	13-13.7	11/16/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		93.0	J
MW-21D-13-15	ACTD	13-13.7	11/16/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.850	J
MW-21D-15-17	ACTD	15-17	11/16/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.220	J
MW-21D-15-17	ACTD	15-17	11/16/2006	SO	SW8270C	Unknown (RT=16.91)	N		0.510	J
MW-21D-15-17	ACTD	15-17	11/16/2006	SO	SW8270C	Unknown (RT=24.81)	N		0.500	J
MW-21D-15-17	ACTD	15-17	11/16/2006	SO	SW8270C	Unknown (RT=27.57)	N		0.650	J
MW-21D-15-17	ACTD	15-17	11/16/2006	SO	SW8270C	System Artifact (RT=4.06)	N		0.260	J
MW-21D-15-17	ACTD	15-17	11/16/2006	SO	SW8270C	System Artifact (RT=11.54)	N		0.560	J
MW-21D-15-17	ACTD	15-17	11/16/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.660	J
MW-21D-15-17	ACTD	15-17	11/16/2006	SO	SW8270C	Unknown (RT=25.87)	N		0.530	J
MW-21D-15-17	ACTD	15-17	11/16/2006	SO	SW8270C	Unknown (RT=23.15)	N		0.190	J
MW-21D-15-17	ACTD	15-17	11/16/2006	SO	SW8270C	Unknown (RT=25.59)	N		0.190	J
MW-21D-15-17	ACTD	15-17	11/16/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		84.0	J
MW-23D-15-17	ACTD	15-16	11/15/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		1.00	J
MW-23D-15-17	ACTD	15-16	11/15/2006	SO	SW8270C	Unknown Acid (RT=19.37)	N		0.210	J
MW-23D-15-17	ACTD	15-16	11/15/2006	SO	SW8270C	Unknown (RT=27.73)	N		0.180	J
MW-23D-15-17	ACTD	15-16	11/15/2006	SO	SW8270C	Unknown (RT=18.28)	N		0.460	J
MW-23D-15-17	ACTD	15-16	11/15/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		0.250	J
MW-23D-15-17	ACTD	15-16	11/15/2006	SO	SW8270C	Unknown (RT=24.17)	N		0.460	J
MW-23D-15-17	ACTD	15-16	11/15/2006	SO	SW8270C	Unknown (RT=19.26)	N		0.300	J
MW-23D-15-17	ACTD	15-16	11/15/2006	SO	SW8270C	Unknown Acid (RT=12.38)	N		0.340	J
MW-23D-37-39	ACTD	37-37.9	11/15/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		72.0	J
MW-23D-37-39	ACTD	37-37.9	11/15/2006	SO	SW8270C	System Artifact (RT=11.56)	N		0.390	J
MW-23D-37-39	ACTD	37-37.9	11/15/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.540	J
MW-23D-37-39	ACTD	37-37.9	11/15/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.600	J
MW-23D-37-39	ACTD	37-37.9	11/15/2006	SO	SW8270C	System Artifact (RT=4.03)	N		0.290	J
MW-25D-10-12	ACTD	10-12	11/21/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.510	J
MW-25D-10-12	ACTD	10-12	11/21/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		2.60	J
MW-25D-10-12	ACTD	10-12	11/21/2006	SO	SW8270C	System Artifact (RT=11.53)	N		0.390	J
MW-25D-10-12	ACTD	10-12	11/21/2006	SO	SW8270C	Unknown (RT=27.49)	N		0.510	J
MW-25D-10-12	ACTD	10-12	11/21/2006	SO	SW8270C	System Artifact (RT=4.05)	N		0.530	J
MW-25D-33-35	ACTD	33-35	12/18/2006	SO	SW8270C	system artifact (RT=2.7)	N		0.240	J
MW-25D-33-35	ACTD	33-35	12/18/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		110.	J
MW-25D-33-35	ACTD	33-35	12/18/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.770	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=22.18)	N		5.50	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=18.35)	N		6.50	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Nonylphenol (RT=20.96)	N		18.0	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Alkane (RT=21.82)	N		7.60	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=21.68)	N		12.0	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=21.42)	N		4.80	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=21.06)	N		5.30	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=22.04)	N		6.00	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=20.79)	N		6.20	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Nonylphenol (RT=20.48)	N		7.00	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=20.24)	N		12.0	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=22.43)	N		5.30	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=21.46)	N		14.0	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=20.68)	N		5.00	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=20.83)	N		5.70	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=19.62)	N		8.20	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=23.55)	N		9.30	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		51.0	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Phenol, Nonyl- (RT=18.79)	N		35.0	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=21.36)	N		16.0	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=20.32)	N		7.10	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Alkane (RT=25.07)	N		5.80	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Alkane (RT=24.58)	N		5.30	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown PAH Substance (RT=24.48)	N		27.0	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Alkane (RT=24.08)	N		5.70	J
MW-26S-8-10	ACTD	8-10	10/26/2006	SO	SW8270C	Unknown (RT=23.4)	N		4.90	J
MW-6D-0-2	ACTD	0-2	11/8/2006	SO	SW8270C	Unknown (RT=27.06)	N		0.210	J
MW-6D-0-2	ACTD	0-2	11/8/2006	SO	SW8270C	System Artifact (RT=11.69)	N		0.260	J
MW-6D-0-2	ACTD	0-2	11/8/2006	SO	SW8270C	System Artifact (RT=4.14)	N		0.250	J
MW-6D-0-2	ACTD	0-2	11/8/2006	SO	SW8270C	Alkane (RT=19.67)	N		0.170	J
MW-6D-0-2	ACTD	0-2	11/8/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		50.0	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=23.57)	N		1.40	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown (RT=28.94)	N		1.30	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Alkane (RT=23.99)	N		0.380	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=23.5)	N		0.900	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=23.93)	N		7.50	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	System Artifact (RT=4.17)	N		0.770	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=25.6)	N		1.90	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=23.23)	N		2.20	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown (RT=29.31)	N		1.70	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=23.86)	N		3.10	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown (RT=29.15)	N		2.60	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=24.28)	N		11.0	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=25.84)	N		3.30	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=25.55)	N		1.80	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=25.46)	N		0.930	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		120.	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=25.71)	N		4.30	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=25.4)	N		0.490	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=25.78)	N		5.50	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown (RT=28.78)	N		7.00	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=25.91)	N		2.40	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=25.96)	N		1.10	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=26.03)	N		0.940	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown Phthalate (RT=25.67)	N		3.40	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	System Artifact (RT=11.71)	N		0.490	J
MW-6D-12-14	ACTD	12-14	11/8/2006	SO	SW8270C	Unknown (RT=28.36)	N		0.670	J
MW-6D-16-18	ACTD	16-18	11/20/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		83.0	J
MW-6D-16-18	ACTD	16-18	11/20/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.370	J
MW-6D-16-18	ACTD	16-18	11/20/2006	SO	SW8270C	System Artifact (RT=11.55)	N		0.660	J
MW-6D-16-18	ACTD	16-18	11/20/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.350	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
MW-6D-16-18	ACTD	16-18	11/20/2006	SO	SW8270C	Unknown (RT=27.52)	N		0.490	J
MW-6D-16-18	ACTD	16-18	11/20/2006	SO	SW8270C	Unknown (RT=28.45)	N		0.560	J
MW-6D-16-18	ACTD	16-18	11/20/2006	SO	SW8270C	alkane (RT=25.77)	N		0.440	J
MW-6D-16-18	ACTD	16-18	11/20/2006	SO	SW8270C	System Artifact (RT=4.02)	N		0.400	J
MW-6D-30-32	ACTD	30-32	11/21/2006	SO	SW8270C	System Artifact (RT=4.03)	N		0.450	J
MW-6D-30-32	ACTD	30-32	11/21/2006	SO	SW8270C	System Artifact (RT=11.53)	N		0.220	J
MW-6D-30-32	ACTD	30-32	11/21/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.450	J
MW-6D-30-32	ACTD	30-32	11/21/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		1.50	J
PCA-1-0-.5	ACTD	0-2	7/17/2001	SO	SW8270C	Alkane	N		0.900	J
PCA-1-0-.5	ACTD	0-2	7/17/2001	SO	SW8270C	Unknown	N		0.970	J
PCA-1-0-.5	ACTD	0-2	7/17/2001	SO	SW8270C	Unknown	N		0.730	J
PCA-1-0-.5	ACTD	0-2	7/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
PCA-1-4-6	ACTD	4-6	7/17/2001	SO	SW8270C	Alkane	N		1.10	J
PCA-1-4-6	ACTD	4-6	7/17/2001	SO	SW8270C	Anthracene Methyl	N		0.280	J
PCA-1-4-6	ACTD	4-6	7/17/2001	SO	SW8270C	Unknown	N		0.340	J
PCA-1-4-6	ACTD	4-6	7/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.740	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		0.680	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		3.40	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.40	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Cycloalkane	N		1.00	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.680	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	C22H12	N		3.30	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	C20H12	N		4.70	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.30	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.840	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Dimethylbenzenamine	N		0.800	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		0.940	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Isomer Of C20H12	N		1.90	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.810	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		4.30	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.50	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Dibenzofuran, -Methyl-	N		5.00	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.40	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	1h-Indene-Dihydro-Dimethyl	N		4.10	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.00	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Phosphoric Acid, Tris(-Methylphen	N		1.80	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		2.10	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		1.30	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.830	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		0.810	J
PCA-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.60	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.30	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.540	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.460	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.850	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.590	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.630	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.700	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	C14H10	N		0.520	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.30	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.460	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.10	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Dimethyldibenzo(b,d)thiophene	N		0.590	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.20	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Isomer Of C22H14	N		1.10	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		2.90	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.790	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.70	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.740	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.420	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	9,10-Anthracenedione-Diamino	N		0.680	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	C20H12	N		0.700	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.00	J
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.890	JN
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.490	JB
PCA-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Alkane	N		0.320	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Unknown	N		0.340	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Unknown	N		0.200	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Alkane	N		0.330	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Alkane	N		0.190	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Alkane	N		0.540	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Unknown	N		0.480	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	C20H14O2	N		0.280	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Unknown	N		0.260	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Alkane	N		0.230	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Carbon Dioxide	N		0.240	JB
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Alkane	N		0.360	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Unknown	N		0.560	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	C19H14	N		0.180	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.360	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Alkane	N		0.360	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Alkane	N		0.400	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	C22H12	N		0.450	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Unknown	N		0.280	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Naphthalene 1-Methyl	N		0.230	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Naphthalene 1-Methyl	N		0.220	J
PCA-3-4-6	ACTD	4-6	9/13/2001	SO	SW8270C	Naphthalene Dimethyl	N		0.250	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.830	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		3.30	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.20	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.10	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.40	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		2.60	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.60	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.70	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		3.00	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.00	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.790	J
PCA-4-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		1.80	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.780	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		0.920	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		1.30	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		0.530	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		0.660	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.780	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Phenanthrene Trimethyl	N		0.530	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		0.510	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		0.750	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.510	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.680	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	C3 Alkyl Benzene	N		1.70	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.460	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		1.70	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		0.730	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		0.460	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.510	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.650	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		1.80	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.960	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		0.780	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Unknown	N		0.750	J
PCA-4-4-6	ACTD	4-6	9/26/2001	SO	SW8270C	Alkane	N		1.20	J
PCA-5-0.5-2	ACTD	0.5-2	9/7/2001	SO	SW8270C	Unknown	N		0.170	J
PCA-5-0.5-2	ACTD	0.5-2	9/7/2001	SO	SW8270C	Unknown	N		0.180	J
PCA-5-0.5-2	ACTD	0.5-2	9/7/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.190	JB
PCA-5-0.5-2	ACTD	0.5-2	9/7/2001	SO	SW8270C	Butane	N		0.220	J
PCA-5-0.5-2	ACTD	0.5-2	9/7/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
PCA-5-0.5-2	ACTD	0.5-2	9/7/2001	SO	SW8270C	Unknown	N		0.180	JB
PCA-5-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	C9H18O	N		0.650	J
PCA-5-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
PCA-5-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.20	JB
PCA-5-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.610	JB
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.160	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	C22H12	N		0.140	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.150	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.220	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.150	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.200	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.340	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.150	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.210	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.180	JB
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.170	JB
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.250	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.230	J
PCA-6-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Butane	N		0.160	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		1.00	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Cyclohexane Alkyl	N		0.710	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.740	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Cycloalkane	N		0.520	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.440	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl, -Heptachloro(PCB)	N		0.710	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.670	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.460	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.560	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.810	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.550	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.20	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	System Artifact	N		0.760	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.580	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.680	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.960	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.630	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Isomer Of C20H12	N		0.830	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.590	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.560	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		1.40	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Isomer Of C20H12	N		1.30	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.770	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.740	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.660	J
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	C4 Alkyl Benzene	N		2.80	JB
RR-1 0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	Unknown	N		5.70	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		2.30	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	Alkane	N		2.30	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		3.60	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	Alkane	N		2.40	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		3.30	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	Unknown	N		2.40	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	Alkane	N		2.30	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		3.70	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	Unknown	N		2.40	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		3.80	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	Unknown	N		2.70	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	Unknown	N		2.50	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		2.90	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	Alkane	N		4.60	J
RR-1 14-16	ACTD	14-16	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-10 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	C20H12	N		0.370	J
RR-10 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Unknown	N		0.660	J
RR-10 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Unknown	N		0.690	J
RR-10 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.510	JB
RR-10 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-10 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.430	JB
RR-11 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Alkane	N		0.600	J
RR-11 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Unknown	N		0.440	JB
RR-11 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Unknown	N		0.330	JB
RR-11 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-12 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Unknown	N		0.420	JB
RR-12 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.520	JB
RR-12 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		2.40	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.10	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.970	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.70	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.10	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.70	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.880	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.60	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.70	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		3.60	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Isomer Of C20H12	N		1.50	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.850	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.40	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.30	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		2.30	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.80	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.10	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.30	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.70	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Isomer Of C20H12	N		1.20	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		4.30	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.40	J
RR-2-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Unknown	N		0.140	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Alkane	N		0.160	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Alkane	N		0.150	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	C20H12	N		0.180	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.110	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Unknown	N		0.170	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Unknown	N		0.110	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Unknown	N		0.160	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Alkane	N		0.200	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Unknown	N		0.120	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Unknown	N		0.150	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Unknown	N		0.200	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Benzenesulfonamide, -Methyl-	N		0.200	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Alkane	N		0.180	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Unknown	N		0.150	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Unknown	N		0.120	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Azulene, -Ethyl-Dimethyl-	N		0.180	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Chrysene Methyl	N		0.160	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.240	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Unknown	N		0.140	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.140	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Alkane	N		0.170	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Unknown	N		0.110	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Alkane	N		0.210	J
RR-2-8-10	ACTD	8-10	9/13/2001	SO	SW8270C	Alkane	N		0.240	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Cycloalkane/Alkene	N		3.90	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.10	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.750	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.570	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Isomer Of C20H12	N		1.90	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Cycloalkane/Alkene	N		1.30	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.580	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		1.10	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.870	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.620	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Isomer Of C20H12	N		0.810	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.670	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Anthracene Methyl	N		0.580	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		3.70	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.940	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.760	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.780	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Trichlorobenzene	N		0.530	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		3.30	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		2.60	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	C17H12	N		0.950	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.840	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	1h-Indene-Dihydro-Methyl-	N		0.540	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.720	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		1.90	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.750	J
RR-3-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.570	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.620	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.270	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.390	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.410	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	System Artifact	N		0.400	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		11.0	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		1.10	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	C9H18O	N		2.20	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		1.60	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		9.60	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.330	JB
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.520	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.370	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.390	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.370	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.280	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.290	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		4.20	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.330	JB
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.260	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		4.40	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		1.50	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		3.80	J
RR-4-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		6.40	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Unknown	N		0.300	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	C20H14O2	N		0.270	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Unknown	N		0.320	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Unknown	N		0.210	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Unknown	N		0.320	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Unknown	N		0.290	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	C18H12	N		0.260	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Alkane	N		0.360	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Unknown	N		0.240	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Unknown	N		0.180	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Unknown	N		0.260	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Alkane	N		0.190	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Alkane	N		0.540	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	C22H12	N		0.260	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.160	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Alkane	N		0.840	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Naphthalene Tetrahydro-Methyl	N		0.200	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Alkane	N		0.300	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Unknown	N		0.270	JB
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Alkane	N		0.200	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Unknown	N		0.270	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	C22H12	N		0.310	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Alkane	N		0.200	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.170	J
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-4-6-8	ACTD	6-8	9/13/2001	SO	SW8270C	Unknown	N		0.200	JB
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Phenanthrene Methyl	N		0.250	J
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.570	J
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.240	JB
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.540	J
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Propane, Ethoxy-Methyl-	N		0.160	JB
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.220	JB
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.530	J
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.220	J
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	C4 Alkyl Benzene	N		0.550	J
RR-5-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.620	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.480	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		2.30	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.210	JB
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	System Artifact	N		0.140	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.200	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Phenanthrene Methyl	N		0.290	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.220	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.240	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.340	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.260	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Indane	N		1.00	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.190	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.160	JB
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.370	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Propane, Ethoxy-Methyl-	N		0.380	JB
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.910	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.560	J
RR-6-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Anthracene, Chloro-	N		1.20	J
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Unknown	N		0.170	JB
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		0.400	J
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Alkane	N		0.220	J
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Unknown	N		0.210	J
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Unknown	N		0.380	JB
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Unknown	N		0.260	JB
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Unknown	N		0.210	J
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Naphthalene, Dichloro-	N		0.310	J
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Unknown	N		0.170	JB
RR-6-8-10	ACTD	8-10	9/10/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.160	JB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.50	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.730	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Naphthalene, Dichloro-	N		0.710	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		2.20	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.560	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		1.20	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.840	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.620	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		2.10	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.560	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		2.30	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.680	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Anthracene Methyl	N		1.10	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.730	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.730	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.840	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.820	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkene	N		0.450	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.460	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.480	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		0.670	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		0.560	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Unknown	N		1.50	J
RR-7-0-0.5	ACTD	0-0.5	9/10/2001	SO	SW8270C	Alkane	N		1.20	J
RR-8-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.580	J
RR-8-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Unknown	N		0.330	J
RR-8-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Alkane	N		0.180	J
RR-8-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.400	J
RR-8-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Unknown	N		0.250	JB
RR-8-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-8-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Alkane	N		0.410	J
RR-8-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Unknown	N		0.180	JB
RR-8-0-0.5	ACTD	0-0.5	9/26/2001	SO	SW8270C	Unknown	N		0.260	JB
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Alkane	N		3.00	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Unknown	N		1.80	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	C4H9CLO2	N		2.60	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	9h-Fluorene, -Dimethyl-	N		1.90	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Benzenesulfonamide, -Methyl-	N		3.60	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Alkane	N		3.90	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Alkane	N		3.20	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Alkane	N		2.80	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Unknown	N		6.60	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Unknown	N		2.40	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Naphthalenol	N		7.70	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Unknown	N		2.80	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Benzenamine, Dichloro	N		2.90	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Unknown	N		3.00	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Alkane	N		2.40	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Alkane	N		3.30	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Unknown	N		1.80	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Benzene, Dichloro-Nitro-	N		2.50	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Alkane	N		2.30	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Unknown	N		1.80	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Alkane	N		2.00	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Cycloalkane/Alkene	N		2.40	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Alkane	N		2.40	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Alkane	N		1.80	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Unknown	N		1.80	J
RR-8-6-8	ACTD	6-8	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-9 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Unknown	N		0.320	J
RR-9 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Unknown	N		0.280	J
RR-9 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
RR-9 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Unknown	N		0.380	JB
RR-9 0-.5	ACTD	0-0.5	10/12/2001	SO	SW8270C	Unknown	N		0.510	JB
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.00	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		1.00	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.940	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.650	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.550	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.640	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Isomer Of C20H12	N		0.470	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Benzenesulfonamide, -Methyl-	N		0.480	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		0.620	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		2.40	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		1.30	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.610	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		2.10	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Benzenesulfonamide, -Methyl-	N		1.30	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		1.00	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		4.30	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.720	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Alkane	N		0.640	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		0.450	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	System Artifact	N		1.60	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		1.10	J
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SC-1	ACTD	0-1	8/21/2001	SO	SW8270C	Unknown	N		3.40	JB
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Alkane	N		0.460	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Alkane	N		0.220	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		0.320	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		0.240	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.200	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		0.570	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		0.200	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Isomer Of C20H12	N		0.200	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Alkane	N		0.470	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		0.380	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		1.90	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		0.440	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Alkane	N		0.380	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.270	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Alkane	N		0.250	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Isomer Of C22H12	N		0.280	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		0.990	JB
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		0.230	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		0.210	JB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	System Artifact	N		0.290	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	System Artifact	N		0.320	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Alkane	N		0.470	J
SC-2	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		0.590	J
SC-3	ACTD	0-1	8/22/2001	SO	SW8270C	Alkane	N		0.260	J
SC-3	ACTD	0-1	8/22/2001	SO	SW8270C	Isomer Of C20H12	N		0.300	J
SC-3	ACTD	0-1	8/22/2001	SO	SW8270C	Alkane	N		0.220	J
SC-3	ACTD	0-1	8/22/2001	SO	SW8270C	Alkane	N		0.160	J
SC-3	ACTD	0-1	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SC-3	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		1.10	JB
SC-3	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		0.230	JB
SC-3	ACTD	0-1	8/22/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.180	JB
SC-3	ACTD	0-1	8/22/2001	SO	SW8270C	Unknown	N		0.200	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Unknown	N		0.770	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.280	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.650	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.10	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.840	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.210	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.200	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	9,10-Anthracenedione, -Hydroxy-	N		0.230	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.620	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.220	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.410	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.680	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.180	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.430	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.260	JB
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.180	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.380	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.340	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.270	JB
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.360	J
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SILO-B1-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.340	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Benzofuran Methyl	N		0.780	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Alkane	N		0.920	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Alkane	N		0.790	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Alkane	N		1.70	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	System Artifact	N		2.20	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Indene	N		4.80	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Alkane	N		3.00	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.650	JB
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Naphthalene Decahydro	N		3.30	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	C3 Alkyl Benzene	N		1.30	JB
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Unknown	N		2.20	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Unknown	N		3.50	J
SILO-B1-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Alkane	N		2.10	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		1.70	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.970	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.40	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.40	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		2.90	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	System Artifact	N		0.970	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		2.60	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.20	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.10	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.50	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.20	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.20	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.870	J
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SILO-B2-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		0.770	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	System Artifact	N		1.30	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Unknown	N		0.920	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Unknown	N		11.0	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Unknown	N		1.90	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.20	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	System Artifact	N		0.960	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		1.70	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	C20H14O2	N		14.0	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	System Artifact	N		2.70	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Phosphoric Acid, Tris(-Methylphenyl) Es	N		1.90	JN
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Benzene, -Trichloro-	N		1.80	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	System Artifact	N		2.20	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.860	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Naphthalenol	N		1.30	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Unknown	N		94.0	J
SILO-B3-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SILO-B3-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SILO-B3-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Benzene, (-Chloroethenyl)-	N		0.300	JB
SILO-B3-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.390	JB
SILO-B3-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.360	JB
SILO-B3-6-8	ACTD	6-8	9/6/2001	SO	SW8270C	Unknown	N		0.210	J
SILO-B4-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Alkane	N		2.20	JB
SILO-B4-0-0.5	ACTD	0-0.5	9/6/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Pyrene Methyl	N		1.40	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		2.80	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		2.30	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		3.70	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Phenol, -(2-Phenylethenyl)-, (e)-	N		1.70	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		1.30	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		3.10	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		2.60	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		1.00	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		1.30	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		2.30	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		0.850	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		1.50	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		0.990	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		1.90	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	C10H16O	N		0.980	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		24.0	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		3.60	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	C4 Alkyl Benzene	N		12.0	J
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		2.80	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SPR-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Benzenamine, Methyl-Nitro-	N		1.50	J
SPR-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	N		0.350	J
SPR-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Alkane	N		2.00	J
SPR-1-8-10	ACTD	8-10	9/5/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.460	JB
SPR-2A-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Unknown	N		0.160	J
SPR-2A-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Unknown	N		0.530	J
SPR-2A-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Unknown	N		0.170	J
SPR-2A-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Alkane	N		0.300	J
SPR-2A-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		0.380	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		1.90	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		0.340	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		0.640	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	C17H12O	N		0.470	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		2.00	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		0.940	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.250	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		0.250	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Unknown	N		2.20	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Unknown	N		0.530	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Unknown	N		20.0	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	C8H7CL	N		0.260	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Naphthalene Dimethyl	N		0.340	J
SPR-2A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Benzenamine, Dichloro	N		0.690	J
SPR-2B-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.160	J
SPR-2B-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		1.60	J
SPR-2B-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.270	J
SPR-2B-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Alkane	N		1.20	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Unknown	N		1.10	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	C14H12S	N		1.80	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	9h-Fluorene, -Dimethyl-	N		2.60	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.670	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Unknown	N		0.660	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Alkane	N		3.10	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Alkane	N		3.60	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Isomer Of C17H12	N		8.20	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Alkane	N		1.30	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Unknown	N		3.70	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	C16H14	N		3.20	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Isomer Of C15H12	N		2.00	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Unknown	N		0.900	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Unknown	N		1.40	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Unknown	N		1.00	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Unknown	N		2.50	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Alkane	N		0.550	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Unknown	N		1.40	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Alkane	N		0.810	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Alkane	N		3.10	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Benzenamine, Dichloro	N		12.0	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Alkane	N		2.30	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Isomer Of C8H7CL	N		0.610	J
SPR-2B-10-12	ACTD	10-12	7/19/2001	SO	SW8270C	Unknown	N		8.10	J
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl, '-Hexachloro(PCB)	N		0.250	J
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.540	J
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl, -Heptachloro(PCB)	N		0.420	J
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl, -Heptachloro(PCB)	N		0.290	J
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl, -Hexachloro(PCB)	N		0.420	J
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.280	J
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		2.10	J
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Butane	N		1.80	JB
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.330	JB
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		0.860	J
SPR-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Phenol, Nonyl-	N		0.590	J
SPR-3 4-6	ACTD	4-6	8/21/2001	SO	SW8270C	Alkane	N		0.410	J
SPR-3 4-6	ACTD	4-6	8/21/2001	SO	SW8270C	Unknown	N		0.690	J
SPR-3 4-6	ACTD	4-6	8/21/2001	SO	SW8270C	Unknown	N		0.450	JB
SPR-3 4-6	ACTD	4-6	8/21/2001	SO	SW8270C	Butane	N		2.40	JB
SPR-3 4-6	ACTD	4-6	8/21/2001	SO	SW8270C	Unknown	N		0.880	J
SPR-3 4-6	ACTD	4-6	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-4A-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.200	J
SPR-4A-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Unknown	N		0.260	J
SPR-4A-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-4A-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Unknown	N		0.520	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Unknown	N		1.40	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.30	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Unknown	N		1.10	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.500	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		0.510	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	1,3-Dichlorobenzene	N		1.90	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		0.490	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		4.10	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Naphthalene Phenyl	N		0.600	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	1,1'-Biphenyl, -Heptachloro(PCB)	N		1.20	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		2.10	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		0.400	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	C14H8S2	N		0.350	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		0.430	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Alkane	N		0.510	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Chloroaniline	N		2.80	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Naphthalene Ethyl	N		28.0	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Benzene, Dichloro-Nitro-	N		0.870	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Unknown	N		7.50	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Unknown	N		0.610	J
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-4A-8-10	ACTD	8-10	7/19/2001	SO	SW8270C	C4 Alkyl Benzene	N		1.70	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	C4H9CLO2	N		0.670	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.420	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.320	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Carbon Dioxide	N		0.340	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.180	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	C20H12	N		0.240	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.270	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Phenol, -(-Tetramethylbutyl)-	N		1.00	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.260	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		6.30	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.530	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.420	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		38.0	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.620	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Naphthalene Dimethyl	N		0.910	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.360	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Chloroaniline	N		1.50	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		1.50	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Benzenamine, Dichloro	N		0.260	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.700	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Alkane	N		0.260	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Unknown	N		0.290	J
SPR-4B-0-0.5	ACTD	0-0.5	8/22/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		0.390	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.280	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		4.70	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		1.40	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.580	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		0.220	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		0.210	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	System Artifact	N		0.210	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.290	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		2.10	JB
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		1.20	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		24.0	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		0.960	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	C10H14O2	N		0.420	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.480	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Benzenamine, Dichloro	N		0.340	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		0.410	J
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.420	JB
SPR-4B-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		0.380	J
SPR-4C-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.920	J
SPR-4C-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.780	J
SPR-4C-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.10	J
SPR-4C-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-4C-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Unknown	N		1.80	JB
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.290	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		0.360	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Naphthalene, Dichloro-	N		2.20	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		10.0	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		1.10	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		0.460	JB
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.380	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.530	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.520	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		1.50	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Benzene, Chloroethenyl-	N		0.380	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	System Artifact	N		0.380	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		0.330	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.290	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.470	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		1.00	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.300	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.700	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.300	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		0.640	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Unknown	N		0.350	J
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		1.40	JB
SPR-4C-4-6	ACTD	4-6	8/23/2001	SO	SW8270C	Alkane	N		1.60	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	1,1'-Biphenyl, -Heptachloro(PCB)	N		4.60	JN
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Isomer Of C20H12	N		58.0	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		4.40	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Isomer Of C17H12	N		7.90	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		11.0	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		5.10	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		6.70	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	System Artifact	N		15.0	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	C15H9N	N		6.10	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Isomer Of C17H12	N		8.70	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Isomer Of C15H12	N		5.70	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		14.0	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		7.90	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		7.10	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Isomer Of C15H12	N		12.0	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	C17H10O	N		6.10	JN
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Isomer Of C15H12	N		9.40	J
SPR-5-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Unknown	N		0.640	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Unknown	N		0.260	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Unknown	N		0.640	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Isomer Of C20H12	N		1.20	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Carbon Dioxide	N		0.210	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.400	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Unknown	N		0.270	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Isomer Of C15H12	N		0.180	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Alkane	N		4.40	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Alkane	N		0.550	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Unknown	N		0.240	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.900	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Unknown	N		0.300	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Unknown	N		0.210	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Alkane	N		0.340	J
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.430	JB
SPR-5-2-4	ACTD	2-4	9/5/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.360	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Unknown	N		2.00	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	1,1'-Biphenyl, -Hexachloro(PCB)	N		0.370	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Unknown	N		0.250	JB
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Isomer Of C15H12	N		0.210	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.560	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	9h-Fluorene, -Dimethyl-	N		0.220	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	C22H12	N		0.220	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Unknown	N		0.240	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.210	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Unknown	N		3.90	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	C14H8S2	N		0.190	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	1h-Indene-Dihydro-Dimethyl	N		4.00	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.680	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.430	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.190	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Alkane	N		0.750	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Dibenzofuran, -Methyl-	N		0.180	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Unknown	N		0.480	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	C16H14	N		0.170	J
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-6-0.5-2	ACTD	0.5-2	9/13/2001	SO	SW8270C	Carbon Dioxide	N		0.350	JB
SPR-6-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.280	JB
SPR-6-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.300	J
SPR-6-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.220	J
SPR-6-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Alkane	N		0.180	J
SPR-6-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SPR-6-0-0.5	ACTD	0-0.5	9/13/2001	SO	SW8270C	Unknown	N		0.330	JB
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.150	J
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	C20H12	N		0.190	J
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Isomer Of C20H12	N		0.280	J
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.230	J
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.170	J
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.160	J
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Methyl Naphthalene	N		0.350	J
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.150	J
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	System Artifact	N		0.170	J
SR-1-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		0.230	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.240	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.350	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Isomer Of C20H12	N		0.340	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		0.400	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		0.270	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.290	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.210	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.180	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		0.220	J
SR-2-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ST-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ST-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		3.80	J
ST-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	C20H12	N		3.00	J
ST-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		5.70	J
ST-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Alkane	N		29.0	J
ST-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		1.30	J
ST-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		1.50	J
ST-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Unknown	N		4.60	J
ST-2-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ST-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.510	JB
ST-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.470	J
ST-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.170	J
ST-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ST-3-0-0.5	ACTD	0-0.5	9/4/2001	SO	SW8270C	Unknown	N		0.370	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Alkane	N		1.00	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.390	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Alkane	N		0.620	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Alkane	N		0.540	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	1,1'-Biphenyl, -Heptachloro(PCB)	N		0.340	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.550	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Alkane	N		0.450	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	C17H12	N		0.530	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Anthracene Methyl	N		1.40	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Phenanthrene Methyl	N		1.10	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Isomer Of C17H12	N		0.490	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Isomer Of C15H12	N		0.870	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	C11H14O2	N		0.330	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Pyrene, Methyl-	N		0.400	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown	N		0.460	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.610	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Alkane	N		0.470	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Anthracene Methyl	N		1.10	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Anthracene Methyl	N		1.20	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Anthracene Methyl	N		0.380	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.10	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown	N		0.860	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown	N		1.60	J
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
ST-3-4-6	ACTD	4-6	9/4/2001	SO	SW8270C	Unknown	N		0.360	JB
TES-1-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	system artifact (RT=4.38)	N		2.60	J
TES-1-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=24.16)	N		1.40	J
TES-1-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		190.	J
TES-2-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		120.	J
TES-2-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=27.07)	N		3.50	J
TES-2-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		1.90	J
TES-2-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=27.56)	N		2.70	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=25.97)	N		1.60	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=25.78)	N		2.70	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=24.99)	N		7.90	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=28.17)	N		1.50	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=27.08)	N		1.00	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=26.06)	N		11.0	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=22.04)	N		0.910	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		0.900	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown PAH substance (RT=24.36)	N		8.20	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	Unknown (RT=23.15)	N		0.910	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=27.86)	N		9.30	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	unknown (RT=17.88)	N		2.40	J
TES-3-0-1	ACTD	0-1	12/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		11.0	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Unknown (RT=22.2)	N		0.370	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=23.97)	N		1.50	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=23.71)	N		1.20	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		100.	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	alkane (RT=6.74)	N		0.180	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	C3 alkyl benzene (RT=5.2)	N		0.210	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	alkane (RT=5.27)	N		0.220	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=21.86)	N		0.680	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Unknown (RT=23.55)	N		0.560	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	system artifact (RT=2.71)	N		1.60	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Naphthalene trimethyl (RT=13.32)	N		0.180	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Sulfur (RT=12.27)	N		0.850	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=21.63)	N		0.440	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	Naphthalene dimethyl (RT=11.06)	N		0.170	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	unknown (RT=24.79)	N		1.30	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.950	J
TES-4-0-1	ACTD	0-1	12/5/2006	SO	SW8270C	C3 alkyl benzene (RT=4.74)	N		0.240	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Isomer Of C22H12	N		0.660	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		2.00	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		0.910	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Carbon Dioxide	N		0.790	JB
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.630	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	1,1'-Biphenyl, -Hexachloro(PCB)	N		0.560	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.680	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		0.940	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.530	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		1.60	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		0.480	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Dimethyl-1,2,3,4-Tetrahydronaphthale	N		0.600	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		1.70	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Benzene, -Tetrachloro-	N		0.470	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		1.50	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		1.80	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		3.10	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		0.500	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	C3 Alkyl Benzene	N		1.50	JB
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		0.570	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Naphthalene Dimethyl	N		0.690	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Benzenamine, Dichloro	N		0.530	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		0.560	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.630	J
TLN-1 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Naphthalene Methyl	N		0.610	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.250	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.220	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.240	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.610	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		1.20	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		1.40	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.180	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Isomer Of C22H12	N		0.510	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.420	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.700	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.260	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.200	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.200	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.350	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		4.20	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		1.50	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	System Artifact	N		0.180	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.500	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.180	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.300	JN
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	C3 Alkyl Benzene	N		1.20	JB
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.200	J
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.240	JB
TLN-1 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.320	J
TLN-2-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Alkane	N		0.160	J
TLN-2-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	9h-Fluorene Methyl	N		0.200	J
TLN-2-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Alkane	N		0.590	J
TLN-2-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		3.90	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		3.80	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		8.00	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		2.70	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		2.70	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		2.90	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		11.0	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		4.60	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	9,10-Anthracenedione, Diamino-	N		1.70	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		2.80	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		6.80	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Dibenzofuran, -Methyl-	N		2.00	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		2.70	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Alkane	N		6.60	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		2.40	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Dimethyl Naphthalene	N		2.40	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Unknown	N		3.70	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Dimethyl Naphthalene	N		3.90	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Dimethyl Naphthalene	N		2.10	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Methyl Naphthalene	N		15.0	J
TLN-3-0-.5	ACTD	0-0.5	7/17/2001	SO	SW8270C	Dimethyl Naphthalene	N		3.90	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Phenol, Nonyl-	N		0.450	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Unknown	N		0.390	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Alkane	N		0.700	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Alkane	N		0.560	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	1,1'-Biphenyl, Dimethyl-	N		0.350	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Isomer Of C15H12	N		0.310	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	C14H12S	N		0.420	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Unknown	N		1.40	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Isomer Of C15H12	N		0.430	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.420	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Alkane	N		0.500	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Alkane	N		2.10	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Phenol, -Tetramethylbutyl	N		0.410	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Isomer Of C16H14	N		0.550	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Alkane	N		0.540	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Alkane	N		0.890	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Alkane	N		0.520	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Alkane	N		0.380	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.650	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Unknown	N		6.90	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	C8H7CL	N		1.20	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Unknown	N		0.460	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Alkane	N		0.460	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Alkane	N		1.00	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Unknown	N		5.20	J
TLN-3-2-4	ACTD	2-4	7/17/2001	SO	SW8270C	Alkane	N		0.390	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	1,1'-Biphenyl, -Heptachloro(PCB)	N		0.420	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.180	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.250	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	System Artifact	N		0.510	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	C20H12	N		0.250	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.250	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.630	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.190	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Benzothiophene	N		0.290	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.240	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Chloroaniline	N		0.250	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.230	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.140	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	System Artifact	N		0.230	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.220	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.560	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.240	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	C22H12	N		0.780	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.360	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.190	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	C3 Alkyl Benzene	N		1.00	JB
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.370	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.200	J
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.450	JB
TLN-4 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.190	JB
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	C22H12	FD	TLN-4 0-.5	1.20	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	0.260	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	FD	TLN-4 0-.5	0.300	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	FD	TLN-4 0-.5	0.630	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	FD	TLN-4 0-.5	0.370	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	System Artifact	FD	TLN-4 0-.5	0.300	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Naphthalene Methyl	FD	TLN-4 0-.5	0.380	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	0.290	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	0.510	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	1.60	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Cycloalkane/Alkene	FD	TLN-4 0-.5	0.300	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	System Artifact	FD	TLN-4 0-.5	0.380	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	9,10-Anthracenedione Diamino	FD	TLN-4 0-.5	0.340	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	1.10	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	0.340	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	FD	TLN-4 0-.5	0.400	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	FD	TLN-4 0-.5	0.440	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	C8H6S	FD	TLN-4 0-.5	0.470	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	0.280	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	0.570	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Total TIC, Semi-volatile	FD	TLN-4 0-.5		U
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	0.450	JB
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Cycloalkane/Alkene	FD	TLN-4 0-.5	1.30	JB
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	0.240	JB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	2.00	J
TLN-4 0-.5 DUP	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	FD	TLN-4 0-.5	0.740	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		0.280	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.630	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.350	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		0.300	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.340	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	C20H12	N		0.710	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.430	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.550	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		0.250	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.320	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		0.300	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.260	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.330	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.500	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.300	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Anthracene Methyl	N		0.360	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	C8H6S	N		0.500	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	System Artifact	N		0.270	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Alkane	N		0.400	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.350	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	C20H14O2	N		0.300	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.480	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.340	J
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		1.20	JB
TLN-5 .5-2	ACTD	0.5-2	8/20/2001	SO	SW8270C	Unknown	N		0.320	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.380	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.320	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.840	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.400	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.370	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.640	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.760	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.530	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Isomer Of C20H12	N		0.610	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.270	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.570	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	9,10-Anthracenedione-Diamino	N		0.440	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.320	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.420	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.400	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.390	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.430	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.320	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.320	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		0.800	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.350	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Isomer Of C22H12	N		1.10	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	1-Amino-4-Bromoanthraquinone	N		0.280	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.310	J
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLN-5 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		1.30	JB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
TLN-5-4-6	ACTD	4-6	8/30/2001	SO	SW8270C	Alkane	N		0.180	J
TLN-5-4-6	ACTD	4-6	8/30/2001	SO	SW8270C	Dimethylbenzenamine	N		0.330	J
TLN-5-4-6	ACTD	4-6	8/30/2001	SO	SW8270C	System Artifact	N		0.150	J
TLN-5-4-6	ACTD	4-6	8/30/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.200	J
TLN-5-4-6	ACTD	4-6	8/30/2001	SO	SW8270C	Benzene, Chloroethenyl-	N		0.240	J
TLN-5-4-6	ACTD	4-6	8/30/2001	SO	SW8270C	Alkane	N		0.180	JB
TLN-5-4-6	ACTD	4-6	8/30/2001	SO	SW8270C	Unknown	N		0.780	JB
TLN-5-4-6	ACTD	4-6	8/30/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.380	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.240	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.980	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	C20H14O2	N		0.700	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.360	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.740	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.590	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.220	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.480	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.220	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.590	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.370	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.250	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.330	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.620	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.380	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.230	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.310	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.330	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Isomer Of C20H12	N		0.580	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.450	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Alkane	N		0.220	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.240	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.260	JB
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Unknown	N		0.300	J
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.850	JB
TLN-6 0-.5	ACTD	0-0.5	8/20/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-10 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.320	J
TLS-10 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	C3 Alkyl Benzene	N		1.60	JB
TLS-10 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Cycloalkane/Alkene	N		0.320	JB
TLS-10 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	Unknown	N		0.800	J
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	Unknown	N		3.40	J
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.340	J
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	Alkane	N		0.380	J
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	Unknown	N		0.310	J
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	Alkane	N		0.390	J
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	Butane	N		2.90	JB
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	Unknown	N		0.420	JB
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	Unknown C10H8O	N		0.360	J
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	Unknown	N		0.500	J
TLS-10 8-10	ACTD	8-10	8/21/2001	SO	SW8270C	Alkane	N		0.300	J
TLS-1-0-0.5	ACTD	0-0.5	9/5/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		2.90	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	System Artifact	N		0.680	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		9.20	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	C20H14O2	N		11.0	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	C20H14O2	N		3.70	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Benzene, -Trichloro-	N		8.50	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		12.0	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		1.90	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		1.10	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		77.0	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.390	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Isomer Of C20H12	N		15.0	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.70	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.10	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		18.0	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		56.0	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.880	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		1.40	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		20.0	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.90	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.70	J
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-11-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.500	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.20	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		1.90	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.890	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.10	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.40	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.50	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.40	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		11.0	JB
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		4.10	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		2.10	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.980	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.820	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.910	J
TLS-2-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.10	J
TLS-2-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Alkane	N		0.240	J
TLS-2-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	System Artifact	N		0.280	JB
TLS-2-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		11.0	J
TLS-2-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-2-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.560	J
TLS-2-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Benzene, Chloro-	N		0.300	JB
TLS-2-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Unknown	N		0.340	J
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.380	J
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Penten-2-One,-Methyl-	N		0.240	JB
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.160	J
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.400	J
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		1.70	JB
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	System Artifact	N		0.520	J
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		28.0	JB
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.200	J
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.300	JB
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.240	JB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.190	J
TLS-3 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		0.160	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	C20H12	N		0.190	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.200	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.160	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.160	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.240	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.320	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.380	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.210	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.520	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.160	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.240	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.260	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.890	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.310	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.170	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.480	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.500	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.660	J
TLS-4-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.160	JB
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8270C	System Artifact	N		0.270	JB
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8270C	Benzene, Chloro-	N		0.280	JB
TLS-4-8-10	ACTD	8-10	9/7/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.890	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	9,10-Anthracenedione, -Diamino-	N		1.10	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	C20H14O2	N		0.840	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	C14H10	N		0.440	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		1.60	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		0.760	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.630	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.810	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		1.20	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.540	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.450	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.750	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Benzene, -Trichloro-	N		1.20	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		1.20	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		0.670	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.730	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.560	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.650	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.550	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.470	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.480	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		0.820	J
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-5 0-0.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		0.470	J
TLS-5-8-10	ACTD	8-10	9/26/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		0.840	J
TLS-5-8-10	ACTD	8-10	9/26/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.210	J
TLS-5-8-10	ACTD	8-10	9/26/2001	SO	SW8270C	Unknown	N		0.640	J
TLS-5-8-10	ACTD	8-10	9/26/2001	SO	SW8270C	Sulfur, Mol. (s8)	N		0.350	J
TLS-5-8-10	ACTD	8-10	9/26/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		0.280	JB

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
TLS-5-8-10	ACTD	8-10	9/26/2001	SO	SW8270C	Unknown	N		0.340	J
TLS-5-8-10	ACTD	8-10	9/26/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		9.40	JB
TLS-5-8-10	ACTD	8-10	9/26/2001	SO	SW8270C	Unknown	N		0.270	JB
TLS-5-8-10	ACTD	8-10	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		46.0	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.400	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		1.10	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.640	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.990	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.560	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		0.450	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		92.0	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.720	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.580	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Alkane	N		0.510	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.580	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.430	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		3.20	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		2.10	JB
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.380	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.460	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.800	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.450	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		0.540	J
TLS-6 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.360	J
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8270C	Unknown	N		34.0	J
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8270C	Unknown	N		11,000	J
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8270C	Isomer Of C20H12	N		180.	J
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8270C	Unknown	N		180.	J
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8270C	Alkane	N		210.	J
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8270C	Alkane	N		310.	J
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8270C	C20H14O2	N		12,000	J
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8270C	Alkane	N		210.	J
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-6-3-5	ACTD	3-5	9/26/2001	SO	SW8270C	C10H8O	N		6,300	J
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.250	J
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.260	J
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.220	J
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Isomer Of C20H12	N		0.310	J
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		44.0	JB
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.560	JB
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		2.90	JB
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.300	J
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.430	J
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Penten-2-One, -Methyl-	N		3.30	JB
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.310	J
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.410	JB
TLS-7 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.340	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.370	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.420	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.250	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.880	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.230	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.330	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1-Amino-4-Bromoanthraquinone	N		0.270	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.240	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Pyrene Methyl	N		0.300	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		0.370	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.290	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.260	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Alkane	N		0.220	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.390	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.300	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.640	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.610	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.320	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Benzene, 1,2-Dichloro-	N		0.710	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		1.80	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.240	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	C3 Alkyl Benzene	N		0.270	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Unknown	N		0.920	J
TLS-8-0-0.5	ACTD	0-0.5	9/7/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Alkane	N		0.570	J
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Unknown	N		0.250	J
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Isomer Of C22H12	N		0.180	J
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	System Artifact	N		0.240	JB
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Unknown	N		0.830	J
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Unknown	N		0.420	J
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Unknown	N		0.200	J
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Butane	N		0.220	J
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Unknown	N		0.210	J
TLS-8-6-8	ACTD	6-8	9/7/2001	SO	SW8270C	Benzene, Chloro-	N		0.280	JB
TLS-9 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.20	J
TLS-9 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
TLS-9 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		0.850	J
TLS-9 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		3.30	J
TLS-9 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		1.40	J
TLS-9 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	System Artifact/Aldol-Condensation	N		3.80	JB
TLS-9 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		2.70	J
TLS-9 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		1.50	J
TLS-9 0-.5	ACTD	0-0.5	8/21/2001	SO	SW8270C	Unknown	N		1.40	J
TP-105	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.03)	N		0.160	J
TP-105	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.35)	N		0.150	J
TP-105	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.28)	N		0.140	J
TP-105	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=25.16)	N		0.270	J
TP-105	ACTD	0-0	6/8/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		18.0	J
TP-105	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.43)	N		0.160	J
TP-105A	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.35)	N		0.130	J
TP-105A	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.44)	N		0.140	J
TP-105A	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=25.16)	N		0.300	J
TP-105A	ACTD	0-0	6/8/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		16.0	J
TP-106-A	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=2.22)	N		0.140	J
TP-106-A	ACTD	0-0	6/8/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		0.170	J
TP-106-A	ACTD	0-0	6/8/2007	SO	SW8270C	unknown PAH substance (RT=23.77)	N		0.180	J
TP-106-B	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=25.17)	N		0.270	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
TP-106-B	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.28)	N		0.160	J
TP-106-B	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=23.4)	N		0.150	J
TP-106-B	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.03)	N		0.200	J
TP-106-B	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.35)	N		0.160	J
TP-106-B	ACTD	0-0	6/8/2007	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		18.0	J
TP-106-B	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=24.7)	N		0.150	J
TP-106-B	ACTD	0-0	6/8/2007	SO	SW8270C	system artifact (RT=3.43)	N		0.160	J
WWT-1-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Alkane	N		2.20	J
WWT-1-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Unknown	N		2.70	J
WWT-1-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	C17H12	N		0.790	J
WWT-1-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
WWT-1-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Unknown	N		0.920	J
WWT-1-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Unknown	N		1.70	J
WWT-1-0-0.5	ACTD	0-0.5	7/19/2001	SO	SW8270C	Unknown	N		4.40	J
WWT-101-15-17	ACTD	15-17	11/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		150.	J
WWT-101-21-23	ACTD	21-23	11/6/2006	SO	SW8270C	System Artifact (RT=24.35)	N		0.160	J
WWT-101-21-23	ACTD	21-23	11/6/2006	SO	SW8270C	System Artifact (RT=23.51)	N		0.160	J
WWT-101-21-23	ACTD	21-23	11/6/2006	SO	SW8270C	System Artifact (RT=23.55)	N		0.190	J
WWT-101-21-23	ACTD	21-23	11/6/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		110.	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Unknown	N		14.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Cycloalkane/Alkene	N		13.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	1,1'-Biphenyl,Tetrachloro(PCB)	N		15.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Unknown	N		18.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	System Artifact	N		30.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		17.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Phenol, (tetramethylbutyl)-	N		17.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	9,10-Anthracenedione-Diamino	N		64.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	9,10-Anthracenedione, -Chloro-	N		14.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		14.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		14.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-	N		250.	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	9,10-Anthracenedione, -Amino-Chloro-	N		51.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Benzene, -Chloro-Dimethyl-	N		22.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Benzene, (-Chloroethenyl)-	N		17.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Unknown	N		36.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Carbon Dioxide	N		14.0	JB
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Naphthalenamine	N		11.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		11.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		10.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Cycloalkane/Alkene	N		37.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Benzene Trichloro	N		33.0	J
WWT-1-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
WWT-2-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Carbon Dioxide	N		1.90	JB
WWT-2-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
WWT-2-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Unknown	N		1.00	JB
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		5.80	J
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Unknown	N		4.60	J
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Unknown	N		4.60	J
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Acetaldehyde	N		6.70	JB
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		5.00	J
WWT-2-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Unknown	N		3.00	JB
WWT-3-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Alkane	N		0.760	J
WWT-3-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Alkane	N		0.760	J

TABLE J-1
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	al (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
WWT-3-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Alkane	N		0.980	J
WWT-3-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Alkane	N		0.910	J
WWT-3-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Alkane	N		1.00	J
WWT-3-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Unknown	N		3.20	JB
WWT-3-0-0.5	ACTD	0-0.5	8/23/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		0.450	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Naphthalene, Dichloro-	N		0.430	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		0.430	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		0.870	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Anthracene, Chloro-	N		0.420	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		1.90	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Unknown	N		0.510	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Anthracenamine	N		0.480	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		1.10	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		0.630	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		0.400	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.500	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Unknown	N		0.720	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Cycloalkane/Alkene	N		1.80	JB
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Unknown	N		0.570	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Unknown	N		0.560	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		1.20	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		0.730	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		0.620	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		0.430	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Naphthalene Trimethyl	N		0.550	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		0.920	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Total TIC, Semi-volatile	N			U
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Unknown	N		0.900	J
WWT-3-12-14	ACTD	12-14	8/23/2001	SO	SW8270C	Alkane	N		0.450	J

APPENDIX J-2
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane ug/m3	1,1,2,2-Tetrachloroethane ug/m3	1,1,2-Trichloroethane ug/m3	1,1-Dichloroethane ug/m3	1,1-Dichloroethene ug/m3	1,2,4-Trimethylbenzene ug/m3	1,2-Dibromoethane ug/m3	1,2-Dichloroethane ug/m3	1,2-Dichloroprop ug/m3
NJGSNRS			72000	34	27	36000	15000		38	20	23
AA1-060707	'0-0	6/7/2007	0.270 U	0.190 U	0.160 U	0.170 U	0.200 U	1.50	0.250 U	0.170 U	0.120
AA2-060707	'0-0	6/7/2007	0.270 U	0.190 U	0.160 U	0.170 U	0.200 U	1.80	0.250 U	0.170 U	0.120
DUP060707	'0-0	6/7/2007	2.20 U	1.50 U	1.30 U	1.40 U	1.60 U	21.0 J	1.90 U	1.40 U	0.970
SV-1	'0-0	6/8/2007	2.20 U	1.50 U	1.30 U	1.40 U	1.60 U	48.0	1.90 U	1.40 U	0.970
SV-10	'0-0	6/7/2007	2.20 U	1.50 U	1.30 U	1.40 U	1.60 U	68.3 J	1.90 U	1.40 U	0.970
SV-12	'0-0	6/7/2007	37.0	1.50 U	1.30 U	1.40 U	1.60 U	16.0	1.90 U	1.40 U	0.970
SV-13	'0-0	6/7/2007	2.20 U	1.50 U	1.30 U	25.0	1.60 U	46.0	1.90 U	1.40 U	0.970
SV-2	'0-0	6/7/2007	2.20 U	1.50 U	1.30 U	1.40 U	1.60 U	15.0	1.90 U	1.40 U	0.970
SV-3	'0-0	6/7/2007	2.20 U	1.50 U	1.30 U	6.90	1.60 U	5.40 J	1.90 U	1.40 U	0.970
SV-4	'0-0	6/7/2007	2.20 U	1.50 U	1.30 U	1.40 U	1.60 U	14.0	1.90 U	1.40 U	0.970
SV-5	'0-0	6/8/2007	2.20 U	1.50 U	1.30 U	1.40 U	1.60 U	32.0	1.90 U	1.40 U	0.970
SV-8	'0-0	6/7/2007	2.20 U	1.50 U	1.30 U	1.40 U	1.60 U	0.840 U	1.90 U	1.40 U	0.970
SV-9	'0-0	6/7/2007	2.20 U	1.50 U	1.30 U	1.40 U	1.60 U	26.0	1.90 U	1.40 U	0.970

APPENDIX J-2
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	pane	1,3-Butadiene ug/m3	2-Butanone (MEK) ug/m3	2-Hexanone ug/m3	Pentanone (MIBK) ug/m3	Acetone ug/m3	Benzene ug/m3	Benzyl Chloride ug/m3	Bromo-dichloromethane ug/m3	Bromoform ug/m3
NJGSNRS				11	360000		220000	230000	26		34	180
AA1-060707	'0-0	6/7/2007	U	0.150 U	2.00	0.200 U	0.100 U	0.170 U	3.80	0.120 U	0.330 U	0.320 U
AA2-060707	'0-0	6/7/2007	U	0.150 U	1.40	0.200 U	0.100 U	0.170 U	5.80	0.120 U	0.330 U	0.320 U
DUP060707	'0-0	6/7/2007	U	1.20 U	8.00 J	1.60 U	0.820 U	1.30 U	25.0 J	0.980 U	2.60 U	2.60 U
SV-1	'0-0	6/8/2007	U	1.20 U	5.00	1.60 U	0.820 U	1.30 U	48.6	0.980 U	2.60 U	2.60 U
SV-10	'0-0	6/7/2007	U	1.20 U	22.0 J	1.60 U	0.820 U	1.30 U	53.0 J	0.980 U	2.60 U	2.60 U
SV-12	'0-0	6/7/2007	U	1.20 U	5.60	1.60 U	0.820 U	45.1	7.00	0.980 U	2.60 U	2.60 U
SV-13	'0-0	6/7/2007	U	1.20 U	8.30	1.60 U	0.820 U	1.30 U	23.0	0.980 U	2.60 U	2.60 U
SV-2	'0-0	6/7/2007	U	1.20 U	7.40	1.60 U	0.820 U	62.2	25.0	0.980 U	2.60 U	2.60 U
SV-3	'0-0	6/7/2007	U	1.20 U	5.90	1.60 U	0.820 U	41.3	0.700 U	0.980 U	10.0 J	2.60 U
SV-4	'0-0	6/7/2007	U	1.20 U	6.80	1.60 U	0.820 U	51.8	4.80 J	0.980 U	2.60 U	2.60 U
SV-5	'0-0	6/8/2007	U	1.20 U	11.0	1.60 U	0.820 U	83.9	34.5	0.980 U	2.60 U	2.60 U
SV-8	'0-0	6/7/2007	U	1.20 U	0.910 U	1.60 U	0.820 U	1.30 U	4.50 J	0.980 U	2.60 U	2.60 U
SV-9	'0-0	6/7/2007	U	1.20 U	6.20	1.60 U	0.820 U	1.30 U	11.0	0.980 U	2.60 U	2.60 U

APPENDIX J-2
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Bromomethane ug/m3	Carbon Disulfide ug/m3	Carbon Tetrachloride ug/m3	Chlorobenzene ug/m3	Chlorodibromo methane ug/m3	Chloroethane ug/m3	Chloroform ug/m3	Chloromethane ug/m3	Cis-1,2-Dichloroethene ug/m3
NJGSNRS			360	51000	31	3600	43	250	24	6600	2600
AA1-060707	'0-0	6/7/2007	0.140 U	1.20	0.310 U	0.120 U	0.270 U	0.110 U	0.210 U	1.20	0.210 U
AA2-060707	'0-0	6/7/2007	0.140 U	1.20	0.310 U	0.120 U	0.270 U	0.110 U	0.210 U	1.20	0.210 U
DUP060707	'0-0	6/7/2007	1.10 U	0.870 U	2.50 U	0.970 U	2.20 U	0.840 U	12.0 J	8.10 J	1.70 U
SV-1	'0-0	6/8/2007	1.10 U	8.10	22.0	0.970 U	2.20 U	0.840 U	214.	0.660 U	1.70 U
SV-10	'0-0	6/7/2007	1.10 U	0.870 U	2.50 U	0.970 U	2.20 U	0.840 U	31.0 J	24.4 J	1.70 U
SV-12	'0-0	6/7/2007	1.10 U	0.870 U	2.50 U	0.970 U	2.20 U	0.840 U	1.70 U	0.660 U	1.70 U
SV-13	'0-0	6/7/2007	1.10 U	0.870 U	2.50 U	0.970 U	2.20 U	0.840 U	1.70 U	0.660 U	1.70 U
SV-2	'0-0	6/7/2007	1.10 U	5.00	22.0	0.970 U	2.20 U	0.840 U	640.	0.660 U	1.70 U
SV-3	'0-0	6/7/2007	1.10 U	17.0	107.	0.970 U	2.20 U	0.840 U	1,030	0.660 U	11.0
SV-4	'0-0	6/7/2007	1.10 U	0.870 U	11.0	0.970 U	2.20 U	0.840 U	382.	0.660 U	11.0
SV-5	'0-0	6/8/2007	1.10 U	6.50	2.50 U	0.970 U	2.20 U	0.840 U	20.0	0.660 U	69.8
SV-8	'0-0	6/7/2007	1.10 U	0.870 U	2.50 U	6.90 J	2.20 U	0.840 U	1.70 U	0.660 U	1.70 U
SV-9	'0-0	6/7/2007	1.10 U	5.90	2.50 U	0.970 U	2.20 U	0.840 U	55.7	0.660 U	1.70 U

APPENDIX J-2
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cis-1,3-Dichloro-propene ug/m3	Cyclohexane ug/m3	Dichloro-difluoromethane ug/m3	Ethanol ug/m3	Ethylbenzene ug/m3	Freon 114 ug/m3	Hexane(C6) ug/m3	Isopropanol ug/m3	M,P-Xylene (sum Of Isomers) ug/m3
NJGSNRS					13000		74000		51000		
AA1-060707	'0-0	6/7/2007	0.200 U	0.150 U	2.60	18.0	2.60	0.310 U	13.0	6.40	9.10
AA2-060707	'0-0	6/7/2007	0.200 U	0.150 U	2.70	19.0	2.60	0.310 U	17.0	0.150 U	7.80
DUP060707	'0-0	6/7/2007	1.60 U	1.20 U	2.30 U	1,800 E	20.0 J	2.50 U	45.5 J	273. J	83.0 J
SV-1	'0-0	6/8/2007	1.60 U	19.0	2.30 U	252.	41.0	2.50 U	99.7	1.20 U	162.
SV-10	'0-0	6/7/2007	1.60 U	1.20 U	2.30 U	4,450 E	60.4 J	2.50 U	82.1 J	713. J	250. J
SV-12	'0-0	6/7/2007	1.60 U	1.20 U	2.30 U	503.	11.0	2.50 U	0.990 U	1.20 U	43.0
SV-13	'0-0	6/7/2007	1.60 U	1.20 U	2.30 U	533.	35.0	2.50 U	28.0	1.20 U	150.
SV-2	'0-0	6/7/2007	1.60 U	1.20 U	2.30 U	186.	17.0	2.50 U	50.4	1.20 U	58.2
SV-3	'0-0	6/7/2007	1.60 U	1.20 U	2.30 U	81.4	0.650 U	2.50 U	0.990 U	12.0	9.10
SV-4	'0-0	6/7/2007	1.60 U	1.20 U	2.30 U	269.	7.40	2.50 U	8.10	39.3	29.0
SV-5	'0-0	6/8/2007	1.60 U	15.0	2.30 U	247.	32.0	2.50 U	64.1	1.20 U	122.
SV-8	'0-0	6/7/2007	1.60 U	1.20 U	2.30 U	33.9	0.650 U	2.50 U	0.990 U	1.20 U	5.20 J
SV-9	'0-0	6/7/2007	1.60 U	1.20 U	2.30 U	573.	15.0	2.50 U	0.990 U	76.7	64.3

APPENDIX J-2
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methylene Chloride ug/m3	O-xylene ug/m3	Styrene ug/m3	Tert-Butyl Methyl Ether ug/m3	Tetrachloroethylene(PERC) ug/m3	Tetrahydrofuran ug/m3	Toluene ug/m3	Trans-1,2-Dichloroethene ug/m3	Trans-1,3-Dichloropropene ug/m3
NJGSNRS			430		73000	180	36		360000	5100	
AA1-060707	'0-0	6/7/2007	5.60	2.20	0.0810 U	0.170 U	0.160 U	0.200 U	14.0	0.180 U	0.180 U
AA2-060707	'0-0	6/7/2007	2.30	2.60	0.0810 U	0.170 U	0.160 U	0.200 U	21.0	0.180 U	0.180 U
DUP060707	'0-0	6/7/2007	1.40 U	23.0 J	0.640 U	1.30 U	1.30 U	1.60 U	133. J	1.40 U	1.40 U
SV-1	'0-0	6/8/2007	1.40 U	47.3	0.640 U	1.30 U	238.	1.60 U	269.	1.40 U	1.40 U
SV-10	'0-0	6/7/2007	4.90 J	72.1 J	0.640 U	1.30 U	7.50 J	1.60 U	346. J	1.40 U	1.40 U
SV-12	'0-0	6/7/2007	4.90 J	13.0	0.640 U	1.30 U	1.30 U	1.60 U	50.5	1.40 U	1.40 U
SV-13	'0-0	6/7/2007	1.40 U	43.0	0.640 U	1.30 U	1.30 U	1.60 U	167.	1.40 U	1.40 U
SV-2	'0-0	6/7/2007	1.40 U	16.0	0.640 U	1.30 U	50.0	7.40	133.	1.40 U	1.40 U
SV-3	'0-0	6/7/2007	1.40 U	0.740 U	0.640 U	1.30 U	44.0	1.60 U	12.0	1.40 U	1.40 U
SV-4	'0-0	6/7/2007	1.40 U	9.10	0.640 U	1.30 U	56.0	1.60 U	29.0	1.40 U	1.40 U
SV-5	'0-0	6/8/2007	1.40 U	36.0	0.640 U	1.30 U	3,760	5.90	211.	1.40 U	1.40 U
SV-8	'0-0	6/7/2007	1.40 U	0.740 U	0.640 U	1.30 U	1.30 U	1.60 U	12.0	1.40 U	1.40 U
SV-9	'0-0	6/7/2007	1.40 U	19.0	0.640 U	1.30 U	24.0	1.60 U	68.2	1.40 U	1.40 U

APPENDIX J-2
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trichloroethene (TCE) ug/m3	Trichloro-fluoromethane ug/m3	Trichloro-trifluoroethane ug/m3	Vinyl Chloride ug/m3	Xylenes, Mixed ug/m3
NJGSNRS			27	51000	2200000	48	7700
AA1-060707	'0-0	6/7/2007	0.160 U	4.00	10.0	0.100 U	11.0
AA2-060707	'0-0	6/7/2007	0.160 U	2.10	0.250 U	0.100 U	10.0
DUP060707	'0-0	6/7/2007	1.30 U	6.70 J	2.00 U	0.840 U	106. J
SV-1	'0-0	6/8/2007	25.0	31.0	2.00 U	0.840 U	210.
SV-10	'0-0	6/7/2007	5.90 J	12.0 J	2.00 U	0.840 U	322. J
SV-12	'0-0	6/7/2007	1.30 U	7.30 J	2.00 U	0.840 U	56.5
SV-13	'0-0	6/7/2007	1.30 U	10.0	2.00 U	0.840 U	193.
SV-2	'0-0	6/7/2007	54.3	663.	805.	0.840 U	74.3
SV-3	'0-0	6/7/2007	48.0	107.	54.0	0.840 U	9.10
SV-4	'0-0	6/7/2007	16.0	44.0	27.0	0.840 U	38.0
SV-5	'0-0	6/8/2007	188.	2.60 U	2.00 U	0.840 U	157.
SV-8	'0-0	6/7/2007	1.30 U	2.60 U	32.0	0.840 U	5.20 J
SV-9	'0-0	6/7/2007	1.30 U	8.40 J	2.00 U	0.840 U	83.4

APPENDIX J-2
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Hexa-chlorobutadiene
			ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
NJGSNRS			2600	10000	770	32	53
AA1-060707	'0-0	6/7/2007	0.430 U	0.140 U	0.140 U	0.160 U	0.290 U
AA2-060707	'0-0	6/7/2007	0.430 U	0.140 U	0.140 U	0.160 U	0.290 U
DUP060707	'0-0	6/7/2007	3.40 U	1.10 U	9.00 J	1.30 U	2.30 U
SV-1	'0-0	6/8/2007	3.40 U	1.10 U	1.10 U	1.30 U	2,610
SV-10	'0-0	6/7/2007	3.40 U	1.10 U	38.0 J	6.00 J	2.30 U
SV-12	'0-0	6/7/2007	3.40 U	1.10 U	16.0	1.30 U	2.30 U
SV-13	'0-0	6/7/2007	3.40 U	1.10 U	16.0	1.30 U	2.30 U
SV-2	'0-0	6/7/2007	3.40 U	1.10 U	1.10 U	1.30 U	2.30 U
SV-3	'0-0	6/7/2007	3.40 U	1.10 U	1.10 U	1.30 U	876.
SV-4	'0-0	6/7/2007	3.40 U	1.10 U	7.80 J	1.30 U	2.30 U
SV-5	'0-0	6/8/2007	3.40 U	1.10 U	1.10 U	1.30 U	2.30 U
SV-8	'0-0	6/7/2007	3.40 U	1.10 U	1.10 U	1.30 U	2.30 U
SV-9	'0-0	6/7/2007	3.40 U	1.10 U	14.0	6.60 J	2.30 U

APPENDIX J-2
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,3,5-Trimethylbenzene ug/m3	1,4-Dioxane ug/m3	1-Ethyl-4-Methl-Benzene ug/m3	1-Propene ug/m3	2,2,4-Trimethyl-pentane ug/m3	3-Chloropropene ug/m3	Bromoethene ug/m3	Ethyl Acetate ug/m3	N-Heptane (C7) ug/m3
NJGSNRS								34	22		
AA1-060707	'0-0	6/7/2007	0.0880 U	0.110 U	0.0840 U	0.120 U	6.50	0.120 U	0.160 U	77.7	5.70
AA2-060707	'0-0	6/7/2007	0.490 J	0.110 U	0.0840 U	0.120 U	8.40	0.120 U	0.160 U	0.300 U	4.50
DUP060707	'0-0	6/7/2007	6.40 J	0.900 U	5.90 J	1.00 U	14.0 J	0.970 U	1.30 U	2.40 U	21.0 J
IO5-2	'0-0	6/19/2007									
IO5-3	'0-0	6/19/2007									
IO5-5	'0-0	6/19/2007									
IO5-6	'0-0	6/19/2007									
SV-1	'0-0	6/8/2007	14.0	0.900 U	12.0	1.00 U	31.0	0.970 U	1.30 U	2.40 U	41.8
SV-10	'0-0	6/7/2007	20.0 J	0.900 U	19.0 J	1.00 U	26.0 J	0.970 U	1.30 U	2.40 U	45.5 J
SV-12	'0-0	6/7/2007	0.690 U	0.900 U	0.690 U	1.00 U	0.750 U	0.970 U	1.30 U	2.40 U	0.980 U
SV-13	'0-0	6/7/2007	12.0	0.900 U	13.0	1.00 U	359.	0.970 U	1.30 U	2.40 U	19.0
SV-2	'0-0	6/7/2007	4.70 J	0.900 U	3.80 J	1.00 U	12.0	0.970 U	1.30 U	2.40 U	24.0
SV-3	'0-0	6/7/2007	0.690 U	0.900 U	0.690 U	5.80 J	0.750 U	0.970 U	1.30 U	2.40 U	0.980 U
SV-4	'0-0	6/7/2007	0.690 U	0.900 U	0.690 U	6.90	4.10 J	0.970 U	1.30 U	2.40 U	0.980 U
SV-5	'0-0	6/8/2007	9.30	0.900 U	8.40	1.00 U	23.0	0.970 U	1.30 U	2.40 U	29.0
SV-8	'0-0	6/7/2007	0.690 U	0.900 U	0.690 U	1.00 U	0.750 U	0.970 U	1.30 U	2.40 U	0.980 U
SV-9	'0-0	6/7/2007	6.90 J	0.900 U	6.40 J	1.00 U	7.50	0.970 U	1.30 U	2.40 U	11.0

APPENDIX J-2
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	o-Chlorotoluene	tert-Butyl alcohol	Total Gaseous Mercury	Vinyl Acetate
			ug/m3	ug/m3	UG/M3	ug/m3
NJGSNRS			5100	4600		
AA1-060707	'0-0	6/7/2007	0.120 U	0.130 U		0.210 U
AA2-060707	'0-0	6/7/2007	0.120 U	0.130 U		0.210 U
DUP060707	'0-0	6/7/2007	0.980 U	7.60 J		1.70 U
IO5-2	'0-0	6/19/2007			0.330 J	
IO5-3	'0-0	6/19/2007			1.04 J	
IO5-5	'0-0	6/19/2007			0.200 J	
IO5-6	'0-0	6/19/2007			2.50 J	
SV-1	'0-0	6/8/2007	0.980 U	1.10 U		1.70 U
SV-10	'0-0	6/7/2007	0.980 U	21.0 J		1.70 U
SV-12	'0-0	6/7/2007	0.980 U	1.10 U		1.70 U
SV-13	'0-0	6/7/2007	0.980 U	1.10 U		1.70 U
SV-2	'0-0	6/7/2007	0.980 U	8.20		1.70 U
SV-3	'0-0	6/7/2007	0.980 U	1.10 U		1.70 U
SV-4	'0-0	6/7/2007	0.980 U	1.10 U		1.70 U
SV-5	'0-0	6/8/2007	0.980 U	9.70		1.70 U
SV-8	'0-0	6/7/2007	0.980 U	1.10 U		1.70 U
SV-9	'0-0	6/7/2007	0.980 U	5.50		1.70 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS				450.	19.0	59,000	140.	78				590
LM-A-1	'0-0.5	09/21/06	10,400 J	5.70 UJ	5,460 J	6,120 J	1.40 UJ	7.70 J	13,800 J	2.80 U	69.7 J	17.1 J
LM-A-2	'0-0.5	09/21/06	16,200 J	5.40 UJ	267. J	5,560 J	1.30 UJ	36.5 J	6,400 J	3.00 J	144. J	15.7 J
LM-A-3	'0-0.5	09/21/06	15,900 J	5.00 UJ	211. J	9,920 J	1.20 UJ	40.7 J	4,500 J	2.50 U	134. J	12.0 UJ
LM-A-4	'0-0.5	10/10/06	11,500	5.20 U	573.	12,900	5.20 U	90.5	7,490	2.70 U	88.5	13.0 U
LM-B-1	'0-0.5	10/10/06	12,000	4.40 U	59.4	15,800	5.50 U	34.1	7,820	2.20 U	130.	14.5
LM-B-2	'0-0.5	10/10/06	8,920	3.90 U	42.0	15,600	4.80 U	40.9	5,310	1.80 U	90.6	9.60 U
LM-B-3	'0-0.5	10/04/06	8,950	2.70 U	9.50	18,700	0.670 U	50.8	1,990	1.30 U	17.6	7.10
LM-B-4	'0-0.5	10/04/06	8,720	2.80 U	12.6	15,600	0.710 U	11.7	2,640	1.90	24.3	7.10 U
LM-C-1	'0-0.5	10/10/06	6,150	4.20 U	10.9	16,600	5.30 U	1.10 U	39,800	2.90	48.7	11.0 U
LM-C-2	'0-0.5	10/10/06	2,960	3.20 U	14.1	6,870	2.40 U	0.790 U	117,000	1.60 U	13.3	7.90 U
LM-C-2-DUP	'0-0.5	10/10/06	5,040	3.90 U	20.1	6,580	2.90 U	1.00	110,000	1.90 U	28.3	9.80 U
LM-C-3	'0-0.5	10/10/06	9,170	4.50 U	25.3	10,600	3.40 U	1.50	38,300	2.60	65.3	11.0 U
LM-C-4	'0-0.5	10/10/06	3,490	4.20 U	11.3	9,200	3.10 U	1.00 U	119,000	2.10 U	17.8	10.0 U
LM-D-1	'0-0.5	10/09/06	17,100	7.50 U	46.3	3,580	1.90 U	1.90 U	3,990	3.80 U	116.	19.0 U
LM-D-2	'0-0.5	10/09/06	16,400	13.0 U	139.	3,390	3.20 U	8.00	5,280	6.10 U	180.	32.0 U
LM-D-3	'0-0.5	10/09/06	20,300	9.80 U	82.5	6,890	2.50 U	10.7	5,890	7.00	191.	25.0 U
LM-D-4	'0-0.5	10/09/06	21,700	13.0 U	182.	3,490	3.20 U	4.20	4,900	6.40 U	234.	32.0 U
LM-E-1	'0-0.5	10/09/06	14,500	10.0 U	150.	1,990	2.50 U	2.60	4,040	5.90	116.	25.0 U
LM-E-2	'0-0.5	10/09/06	14,500	9.90 U	66.3	1,700	2.50 U	4.30	3,080	5.00 U	70.7	25.0 U
LM-E-3	'0-0.5	10/05/06	24,600 J	6.80 UJ	195. J	4,870 J	1.70 UJ	1.70 UJ	3,760 J	5.50 J	656. J	19.1 J
LM-E-4	'0-0.5	10/05/06	24,600 J	5.70 UJ	236. J	2,730 J	1.40 UJ	1.40 UJ	3,400 J	3.00 U	536. J	18.2 J
LM-F-1	'0-0.5	10/09/06	13,700	2.60 U	6.10	223.	0.650 U	0.650 U	6,860	1.30 U	53.2	18.4
LM-F-2	'0-0.5	10/09/06	33,900	4.50 U	20.1	441.	2.30	1.10 U	5,870	2.50	92.0	18.1
LM-F-3	'0-0.5	10/05/06	16,200 J	6.50 UJ	18.7 J	1,300 J	1.60 UJ	1.60 UJ	3,110 J	3.90 J	138. J	16.0 UJ
LM-F-4	'0-0.5	10/09/06	14,200	7.60 U	18.9	76.0 U	1.90 U	1.90 U	2,150	3.80 U	36.8	19.0 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Methyl Mercury	Nickel	Potassium	Selenium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			45000		800		5900	65		23000		5700
LM-A-1	'0-0.5	09/21/06	160. J	240,000 J	215. J	2,840 J	728. J	82.5 J	0.0861	40.7 J	1,540 J	16.6 J
LM-A-2	'0-0.5	09/21/06	353. J	37,400 J	618. J	4,670 J	161. J	148. J	0.100	41.7 J	3,050 J	5.40 UJ
LM-A-3	'0-0.5	09/21/06	286. J	43,600 J	1,280 J	7,030 J	291. J	117. J	0.0677	30.9 J	3,430 J	5.00 UJ
LM-A-4	'0-0.5	10/10/06	318.	47,400	2,230	3,440	155.	141.	0.0688	25.7	1,760	5.20 U
LM-B-1	'0-0.5	10/10/06	269.	44,100	435.	3,260	1,260	181.	0.000800	24.0	2,040	4.40 U
LM-B-2	'0-0.5	10/10/06	166.	28,900	306.	2,620	285.	213.	0.00480	17.8	1,480	3.90 U
LM-B-3	'0-0.5	10/04/06	98.8	11,900	1,160	948.	98.8	75.3	0.00130	9.00	670. U	2.70 U
LM-B-4	'0-0.5	10/04/06	63.3	13,200	654.	1,570	116.	105.	0.00470	10.3	710. U	2.80 U
LM-C-1	'0-0.5	10/10/06	88.1	7,720	81.0	11,600	81.4	1,800	0.0519	15.8	1,920	4.20 U
LM-C-2	'0-0.5	10/10/06	60.8	6,620	39.1	9,430	141.	2,150	0.0199	9.20	1,170	3.20 U
LM-C-2-DUP	'0-0.5	10/10/06	75.1	9,810	60.4	13,500	142.	2,790	0.0254	16.6	1,680	3.90 U
LM-C-3	'0-0.5	10/10/06	138.	17,200	138.	6,250	169.	1,590	0.0656	24.7	1,940	4.50 U
LM-C-4	'0-0.5	10/10/06	80.1	6,800	58.9	6,010	102.	3,050	0.0141	12.0	1,080	4.20 U
LM-D-1	'0-0.5	10/09/06	303.	27,100	246.	6,810	160.	71.5	0.0423	43.4	3,470	7.50 U
LM-D-2	'0-0.5	10/09/06	533.	34,000	525.	8,670	169.	38.1	0.00873	113.	3,880	13.0 U
LM-D-3	'0-0.5	10/09/06	501.	43,400	339.	9,760	313.	159.	0.0171	57.8	5,120	10.2
LM-D-4	'0-0.5	10/09/06	858.	38,200	613.	9,720	200.	70.9	0.0325	90.0	5,200	29.3
LM-E-1	'0-0.5	10/09/06	471.	33,800	658.	7,610	175.	11.1	0.0142	114.	3,860	17.4
LM-E-2	'0-0.5	10/09/06	248.	21,100	242.	6,930	150.	17.9	0.0237	48.0	3,820	9.90 U
LM-E-3	'0-0.5	10/05/06	1,040 J	35,000 J	737. J	8,180 J	238. J	159. J	0.0567 J	88.4 J	4,370 J	8.10 J
LM-E-4	'0-0.5	10/05/06	855. J	35,600 J	764. J	8,770 J	247. J	54.0 J	0.0177 J	76.2 J	4,980 J	12.1 J
LM-F-1	'0-0.5	10/09/06	80.5	29,600	62.6	12,500	234.	4.30	0.00360	37.9	1,420	2.60 U
LM-F-2	'0-0.5	10/09/06	204.	59,000	202.	7,340	373.	9.00	0.00340	80.6	3,290	4.50 U
LM-F-3	'0-0.5	10/05/06	248. J	26,700 J	201. J	7,840 J	385. J	25.8 J	0.0259 J	37.6 J	4,060 J	6.50 UJ
LM-F-4	'0-0.5	10/09/06	45.9	20,200	33.3	4,960	174.	0.790	0.000800 B	21.3	4,090	7.60 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Silver	Sodium	Thallium	Vanadium	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			5700		79	1100	110000
LM-A-1	'0-0.5	09/21/06	2.90 UJ	2,900 UJ	2.90 UJ	78.8 J	938. J
LM-A-2	'0-0.5	09/21/06	5.20 J	5,110 J	2.70 UJ	57.2 J	1,640 J
LM-A-3	'0-0.5	09/21/06	3.30 J	8,870 J	2.50 UJ	60.5 J	2,140 J
LM-A-4	'0-0.5	10/10/06	2.60 U	4,820	10.0 U	46.4	6,370
LM-B-1	'0-0.5	10/10/06	2.80	6,800	11.0 U	42.3	5,150
LM-B-2	'0-0.5	10/10/06	4.10	4,360	9.60 U	36.6	3,760
LM-B-3	'0-0.5	10/04/06	1.30 U	2,240	1.30 U	17.1	2,340
LM-B-4	'0-0.5	10/04/06	1.40 U	3,110	1.40 U	21.1	799.
LM-C-1	'0-0.5	10/10/06	2.10 U	9,420	11.0 U	19.4	98.2
LM-C-2	'0-0.5	10/10/06	1.60 U	5,690	4.80 U	9.00	70.3
LM-C-2-DUP	'0-0.5	10/10/06	2.00 U	6,740	5.90 U	15.0	146.
LM-C-3	'0-0.5	10/10/06	3.80	6,750	6.80 U	30.7	212.
LM-C-4	'0-0.5	10/10/06	2.10 U	6,580	6.20 U	10.6	96.2
LM-D-1	'0-0.5	10/09/06	3.70 U	14,100	3.70 U	61.0	255.
LM-D-2	'0-0.5	10/09/06	6.40 U	31,500	6.40 U	110.	788.
LM-D-3	'0-0.5	10/09/06	6.30	20,600	4.90 U	82.1	760.
LM-D-4	'0-0.5	10/09/06	6.40 U	28,900	6.40 U	85.8	561.
LM-E-1	'0-0.5	10/09/06	5.00 U	25,100	5.00 U	106.	459.
LM-E-2	'0-0.5	10/09/06	4.90 U	23,900	4.90 U	64.6	414.
LM-E-3	'0-0.5	10/05/06	6.40 J	16,000 J	3.40 UJ	91.8 J	445. J
LM-E-4	'0-0.5	10/05/06	3.40 J	13,100 J	2.90 UJ	95.0 J	422. J
LM-F-1	'0-0.5	10/09/06	1.30 U	3,510	1.30 U	65.0	108.
LM-F-2	'0-0.5	10/09/06	2.20 U	5,120	2.20 U	147.	584.
LM-F-3	'0-0.5	10/05/06	4.20 J	14,600 J	3.30 UJ	50.0 J	175. J
LM-F-4	'0-0.5	10/09/06	3.80 U	17,200	3.80 U	45.2	109.

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde	Endrin Ket
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			0.2	0.5		2		2	0.2	6800	6800	6800		
LM-A-1	'0-0.5	9/21/2006	0.000830 UJ	0.000690 UJ	0.00100 UJ	0.000810 UJ	0.00140 UJ	0.000750 UJ	0.000950 UJ	0.00100 UJ	0.000990 UJ	0.00100 UJ	0.000880 UJ	0.00100
LM-A-2	'0-0.5	9/21/2006	0.000770 UJ	0.000650 UJ	0.000940 UJ	0.000760 UJ	0.00130 UJ	0.000700 UJ	0.000880 UJ	0.000930 UJ	0.000920 UJ	0.000950 UJ	0.000820 UJ	0.000960
LM-A-3	'0-0.5	9/21/2006	0.000720 UJ	0.000600 UJ	0.000880 UJ	0.000710 UJ	0.00120 UJ	0.000660 UJ	0.000820 UJ	0.000870 UJ	0.000860 UJ	0.000880 UJ	0.000770 UJ	0.000890
LM-A-4	'0-0.5	10/10/2006	0.000770 U	0.000650 U	0.000940 U	0.000760 U	0.00130 U	0.000700 U	0.000880 U	0.000940 U	0.000930 U	0.000950 U	0.000820 U	0.000960
LM-B-1	'0-0.5	10/10/2006	0.000630 U	0.000530 U	0.000770 U	0.000620 U	0.00100 U	0.000570 U	0.000720 U	0.000760 U	0.000750 U	0.000770 U	0.000670 U	0.000780
LM-B-2	'0-0.5	10/10/2006	0.000540 U	0.000450 U	0.000660 U	0.000530 U	0.000900 U	0.000490 U	0.000620 U	0.000660 U	0.000650 U	0.000660 U	0.000580 U	0.000670
LM-B-3	'0-0.5	10/4/2006	0.000380 U	0.000320 U	0.000470 U	0.000380 U	0.000640 U	0.000350 U	0.000440 U	0.000460 U	0.000460 U	0.000470 U	0.000410 U	0.000470
LM-B-4	'0-0.5	10/4/2006	0.000410 U	0.000350 U	0.000500 U	0.000400 U	0.000690 U	0.000370 U	0.000470 U	0.000500 U	0.000490 U	0.000510 U	0.000440 U	0.000510
LM-C-1	'0-0.5	10/10/2006	0.000620 U	0.000520 U	0.000760 U	0.000610 U	0.00100 U	0.000570 U	0.00350	0.000750 U	0.000750 U	0.000760 U	0.000660 U	0.000770
LM-C-2	'0-0.5	10/10/2006	0.000470 U	0.000390 U	0.000570 U	0.000460 U	0.000780 U	0.000430 U	0.000540 U	0.000570 U	0.000560 U	0.000580 U	0.000500 U	0.000580
LM-C-2-DUP	'0-0.5	10/10/2006	0.00250 U	0.00250 U	0.00250 U	0.00250 U	0.00250 U	0.00250 U	0.00250 U	0.00250 U	0.00250 U	0.00250 U	0.00250 U	0.00620
LM-C-3	'0-0.5	10/10/2006	0.000680 U	0.000570 U	0.000830 U	0.000670 U	0.00110 U	0.000620 U	0.000780 U	0.000830 U	0.000820 U	0.000840 U	0.000730 U	0.000850
LM-C-4	'0-0.5	10/10/2006	0.000610 U	0.000510 U	0.000740 U	0.000600 U	0.00100 U	0.000560 U	0.000700 U	0.000740 U	0.000730 U	0.000750 U	0.000650 U	0.000760
LM-D-1	'0-0.5	10/9/2006	0.00110 U	0.000920 U	0.00130 U	0.00110 U	0.00180 U	0.00100 U	0.00130 U	0.00130 U	0.00130 U	0.00130 U	0.00120 U	0.00140
LM-D-2	'0-0.5	10/9/2006	0.00180 U	0.00150 U	0.00220 U	0.00180 U	0.00300 U	0.00160 U	0.00210 U	0.00220 U	0.00220 U	0.00220 U	0.00190 U	0.00220
LM-D-3	'0-0.5	10/9/2006	0.00140 U	0.00120 U	0.00170 U	0.00140 U	0.00230 U	0.00130 U	0.00160 U	0.00170 U	0.00170 U	0.00170 U	0.00150 U	0.00170
LM-D-4	'0-0.5	10/9/2006	0.00190 U	0.00160 U	0.00230 U	0.00190 U	0.00320 U	0.00170 U	0.00220 U	0.00230 U	0.00230 U	0.00230 U	0.00200 U	0.00230
LM-E-1	'0-0.5	10/9/2006	0.00150 U	0.00130 U	0.00180 U	0.00150 U	0.00250 U	0.00140 U	0.00730	0.00180 U	0.00180 U	0.00190 U	0.00160 U	0.00190
LM-E-2	'0-0.5	10/9/2006	0.00150 U	0.00120 U	0.00180 U	0.00140 U	0.00240 U	0.00130 U	0.00170 U	0.00180 U	0.00170 U	0.00180 U	0.00160 U	0.00180
LM-E-3	'0-0.5	10/5/2006	0.000990 UJ	0.000830 UJ	0.00120 UJ	0.000980 UJ	0.00170 UJ	0.000900 UJ	0.00110 UJ	0.00120 UJ	0.00120 UJ	0.00120 UJ	0.00110 UJ	0.00120
LM-E-4	'0-0.5	10/5/2006	0.000870 UJ	0.000730 UJ	0.00110 UJ	0.000860 UJ	0.00150 UJ	0.000800 UJ	0.0106 J	0.00110 UJ	0.00100 UJ	0.00110 UJ	0.000930 UJ	0.00110
LM-F-1	'0-0.5	10/9/2006	0.000360 U	0.000300 U	0.00390	0.000360 U	0.000610 U	0.000330 U	0.00520	0.000440 U	0.000440 U	0.000450 U	0.000390 U	0.000450
LM-F-2	'0-0.5	10/9/2006	0.000630 U	0.000530 U	0.000780 U	0.000620 U	0.00110 U	0.000580 U	0.0221	0.000770 U	0.000760 U	0.000780 U	0.000680 U	0.000790
LM-F-3	'0-0.5	10/5/2006	0.000930 UJ	0.000780 UJ	0.00110 UJ	0.000920 UJ	0.00160 UJ	0.000850 UJ	0.00520 J	0.00110 UJ	0.00110 UJ	0.00110 UJ	0.00100 UJ	0.00120
LM-F-4	'0-0.5	10/9/2006	0.00110 U	0.000930 U	0.00130 U	0.00110 U	0.00180 U	0.00100 U	0.00130 U	0.00130 U	0.00130 U	0.00140 U	0.00120 U	0.00140

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date one		Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS				340		0.3	0.7	5700	13	9	8	3
LM-A-1	'0-0.5	9/21/2006	UJ	0.000930 UJ	0.00100 UJ	0.00100 UJ	0.000970 UJ	0.00120 UJ	0.0227 J	0.00510 JN	0.00110 UJ	0.0180 UJ
LM-A-2	'0-0.5	9/21/2006	UJ	0.000870 UJ	0.000940 UJ	0.000960 UJ	0.000910 UJ	0.00120 UJ	0.0225 J	0.00880 JN	0.00110 UJ	0.0170 UJ
LM-A-3	'0-0.5	9/21/2006	UJ	0.000810 UJ	0.000880 UJ	0.000900 UJ	0.000850 UJ	0.00110 UJ	0.0243 J	0.0101 JN	0.0237 J	0.0160 UJ
LM-A-4	'0-0.5	10/10/2006	U	0.000870 U	0.000940 U	0.000970 U	0.000910 U	0.00120 U	0.00980	0.000870 U	0.00110 U	0.0170 U
LM-B-1	'0-0.5	10/10/2006	U	0.000710 U	0.000760 U	0.000780 U	0.000740 U	0.000940 U	0.00590	0.000710 U	0.00680	0.0140 U
LM-B-2	'0-0.5	10/10/2006	U	0.000610 U	0.000660 U	0.000680 U	0.000640 U	0.000810 U	0.00980	0.000610 U	0.0220	0.0120 U
LM-B-3	'0-0.5	10/4/2006	U	0.000430 U	0.000470 U	0.000480 U	0.000450 U	0.000570 U	0.00300	0.00350	0.000530 U	0.00820 U
LM-B-4	'0-0.5	10/4/2006	U	0.000460 U	0.000500 U	0.000510 U	0.000480 U	0.000620 U	0.000450 U	0.0104	0.000570 U	0.00890 U
LM-C-1	'0-0.5	10/10/2006	U	0.000700 U	0.000760 U	0.000780 U	0.000730 U	0.000940 U	0.137	0.0385	0.00440	0.0130 U
LM-C-2	'0-0.5	10/10/2006	U	0.000530 U	0.000570 U	0.000590 U	0.000550 U	0.000700 U	0.130	0.0175	0.000650 U	0.0100 U
LM-C-2-DUP	'0-0.5	10/10/2006	U	0.00250 U	0.00250 U	0.00250 U	0.00250 U	0.00620 U	0.0987	0.0158	0.0193	0.0310 U
LM-C-3	'0-0.5	10/10/2006	U	0.000770 U	0.000830 U	0.000850 U	0.000800 U	0.00100 U	0.0715	0.0196	0.000940 U	0.0150 U
LM-C-4	'0-0.5	10/10/2006	U	0.000690 U	0.000740 U	0.000760 U	0.000720 U	0.000920 U	0.0135	0.000690 U	0.000850 U	0.0130 U
LM-D-1	'0-0.5	10/9/2006	U	0.00120 U	0.00130 U	0.00140 U	0.00130 U	0.00170 U	0.0530	0.0172	0.00150 U	0.0240 U
LM-D-2	'0-0.5	10/9/2006	U	0.00200 U	0.00220 U	0.00220 U	0.00210 U	0.00270 U	0.135	0.0336	0.00250 U	0.0390 U
LM-D-3	'0-0.5	10/9/2006	U	0.00160 U	0.00170 U	0.00170 U	0.00160 U	0.00210 U	0.211	0.0865	0.00190 U	0.0300 U
LM-D-4	'0-0.5	10/9/2006	U	0.00210 U	0.00230 U	0.00240 U	0.00220 U	0.00280 U	0.215	0.0506	0.00260 U	0.0410 U
LM-E-1	'0-0.5	10/9/2006	U	0.00170 U	0.00180 U	0.00190 U	0.00180 U	0.00230 U	0.181	0.0425	0.00830	0.0330 U
LM-E-2	'0-0.5	10/9/2006	U	0.00160 U	0.00180 U	0.00180 U	0.00170 U	0.00220 U	0.0366	0.0117	0.00200 U	0.0310 U
LM-E-3	'0-0.5	10/5/2006	UJ	0.00110 UJ	0.00120 UJ	0.00120 UJ	0.00120 UJ	0.00150 UJ	0.828 J	0.213 J	0.00140 UJ	0.0210 UJ
LM-E-4	'0-0.5	10/5/2006	UJ	0.000990 UJ	0.00110 UJ	0.00110 UJ	0.00100 UJ	0.00130 UJ	1.91 J	0.463 J	0.0440 J	0.0190 UJ
LM-F-1	'0-0.5	10/9/2006	U	0.000410 U	0.00370	0.000450 U	0.000430 U	0.000550 U	0.0265	0.00790	0.000500 U	0.00780 U
LM-F-2	'0-0.5	10/9/2006	U	0.000720 U	0.000770 U	0.000790 U	0.000750 U	0.000960 U	0.619	0.0616	0.000880 U	0.0140 U
LM-F-3	'0-0.5	10/5/2006	UJ	0.00110 UJ	0.00110 UJ	0.00120 UJ	0.00110 UJ	0.00140 UJ	0.0890 J	0.0236 J	0.0414 J	0.0200 UJ
LM-F-4	'0-0.5	10/9/2006	U	0.00120 U	0.00130 U	0.00140 U	0.00130 U	0.00170 U	0.0170	0.00120 U	0.00150 U	0.0240 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016 mg/kg	Aroclor 1221 mg/kg	Aroclor 1232 mg/kg	Aroclor 1242 mg/kg	Aroclor 1248 mg/kg	Aroclor 1254 mg/kg	Aroclor 1260 mg/kg
SRS			1	1	1	1	1	1	1
LM-A-1	'0-0.5	9/21/2006	0.0180 UJ	0.0560 UJ	0.0510 UJ	0.0300 UJ	0.0320 UJ	0.0440 UJ	0.0190 UJ
LM-A-2	'0-0.5	9/21/2006	0.0170 UJ	0.0520 UJ	0.0470 UJ	0.0280 UJ	0.0300 UJ	0.0410 UJ	0.0180 UJ
LM-A-3	'0-0.5	9/21/2006	0.0150 UJ	0.0490 UJ	0.0440 UJ	0.0260 UJ	0.0280 UJ	0.0390 UJ	0.0160 UJ
LM-A-4	'0-0.5	10/10/2006	0.0170 U	0.0530 U	0.0470 U	0.0280 U	0.0300 U	0.0410 U	0.0180 U
LM-B-1	'0-0.5	10/10/2006	0.0130 U	0.0430 U	0.0390 U	0.0230 U	0.0250 U	0.0340 U	0.0140 U
LM-B-2	'0-0.5	10/10/2006	0.0120 U	0.0370 U	0.0330 U	0.0190 U	0.0210 U	0.0290 U	0.0120 U
LM-B-3	'0-0.5	10/4/2006	0.00820 U	0.0260 U	0.0240 U	0.0140 U	0.0150 U	0.0200 U	0.00870 U
LM-B-4	'0-0.5	10/4/2006	0.00880 U	0.0280 U	0.0250 U	0.0150 U	0.0160 U	0.0220 U	0.00940 U
LM-C-1	'0-0.5	10/10/2006	0.0130 U	0.0420 U	0.0380 U	0.0220 U	0.0240 U	0.0330 U	0.0140 U
LM-C-2	'0-0.5	10/10/2006	0.0100 U	0.0320 U	0.0290 U	0.0170 U	0.0180 U	0.0250 U	0.0110 U
LM-C-2-DUP	'0-0.5	10/10/2006	0.0620 U	0.0620 U	0.0620 U	0.0620 U	0.0620 U	0.0620 U	0.0620 U
LM-C-3	'0-0.5	10/10/2006	0.0150 U	0.0460 U	0.0420 U	0.0240 U	0.0270 U	0.0370 U	0.0160 U
LM-C-4	'0-0.5	10/10/2006	0.0130 U	0.0410 U	0.0370 U	0.0220 U	0.0240 U	0.0330 U	0.0140 U
LM-D-1	'0-0.5	10/9/2006	0.0240 U	0.0750 U	0.0680 U	0.0390 U	0.0430 U	0.0590 U	0.0250 U
LM-D-2	'0-0.5	10/9/2006	0.0390 U	0.120 U	0.110 U	0.0650 U	0.0700 U	0.0960 U	0.0410 U
LM-D-3	'0-0.5	10/9/2006	0.0300 U	0.0940 U	0.0850 U	0.0500 U	0.0540 U	0.0740 U	0.0320 U
LM-D-4	'0-0.5	10/9/2006	0.0410 U	0.130 U	0.120 U	0.0680 U	0.0740 U	0.100 U	0.0430 U
LM-E-1	'0-0.5	10/9/2006	0.0330 U	0.100 U	0.0930 U	0.0540 U	0.0590 U	0.0810 U	0.0350 U
LM-E-2	'0-0.5	10/9/2006	0.0310 U	0.0990 U	0.0900 U	0.0520 U	0.0570 U	0.0780 U	0.0330 U
LM-E-3	'0-0.5	10/5/2006	0.0210 UJ	0.0680 UJ	0.0610 UJ	0.0360 UJ	0.0390 UJ	0.0530 UJ	0.356 J
LM-E-4	'0-0.5	10/5/2006	0.0190 UJ	0.0600 UJ	0.0540 UJ	0.0310 UJ	0.0340 UJ	0.0470 UJ	0.0200 UJ
LM-F-1	'0-0.5	10/9/2006	0.00780 U	0.0250 U	0.0220 U	0.0130 U	0.0140 U	0.0190 U	0.0434
LM-F-2	'0-0.5	10/9/2006	0.0140 U	0.0430 U	0.0390 U	0.0230 U	0.0250 U	0.0340 U	0.331
LM-F-3	'0-0.5	10/5/2006	0.0200 UJ	0.0640 UJ	0.0580 UJ	0.0340 UJ	0.0370 UJ	0.0500 UJ	0.0210 UJ
LM-F-4	'0-0.5	10/9/2006	0.0240 U	0.0750 U	0.0680 U	0.0400 U	0.0430 U	0.0590 U	0.0250 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2-Dibromoethane mg/kg	1,2-Dichlorobenzene mg/kg
SRS			4200	3	5	21	130	820	0.04	59000
LM-A-1	'0-0.5	9/21/2006	0.220 UJ	0.210 UJ	0.200 UJ	0.180 UJ	0.260 UJ	0.130 UJ	0.210 UJ	0.170 UJ
LM-A-2	'0-0.5	9/21/2006	0.160 UJ	0.150 UJ	0.140 UJ	0.130 UJ	0.180 UJ	0.219 J	0.150 UJ	0.120 UJ
LM-A-3	'0-0.5	9/21/2006	0.180 UJ	0.180 UJ	0.170 UJ	0.150 UJ	0.210 UJ	1.01 J	0.170 UJ	0.379 J
LM-A-4	'0-0.5	10/10/2006	0.140 U	0.140 U	0.130 U	0.110 U	0.160 U	1.16 J	0.130 U	1.14 J
LM-B-1	'0-0.5	10/10/2006	0.100 U	0.0990 U	0.0920 U	0.0830 U	0.120 U	0.0600 U	0.0970 U	0.0780 U
LM-B-2	'0-0.5	10/10/2006	0.0810 U	0.0780 U	0.0730 U	0.0650 U	0.0940 U	0.0480 U	0.0770 U	0.0620 U
LM-B-3	'0-0.5	10/4/2006	0.0440 U	0.0430 U	0.0400 U	0.0360 U	0.0510 U	0.0260 U	0.0420 U	0.0340 U
LM-B-4	'0-0.5	10/4/2006	0.0510 U	0.0490 U	0.0460 U	0.0410 U	0.0590 U	0.0300 U	0.0480 U	0.0390 U
LM-C-1	'0-0.5	10/10/2006	0.130 U	0.120 U	0.120 U	0.100 U	0.150 U	0.127 J	0.120 U	1.64
LM-C-2	'0-0.5	10/10/2006	0.0740 U	0.0710 U	0.0670 U	0.0600 U	0.0850 U	0.0430 U	0.0700 U	0.175 J
LM-C-2-DUP	'0-0.5	10/10/2006	0.0850 U	0.0820 U	0.0770 U	0.0690 U	0.0980 U	0.0500 U	0.0810 U	0.123 J
LM-C-3	'0-0.5	10/10/2006	0.140 U	0.130 U	0.130 U	0.110 U	0.160 U	0.144 J	0.130 U	0.179 J
LM-C-4	'0-0.5	10/10/2006	0.0880 U	0.0860 U	0.0800 U	0.0720 U	0.100 U	0.0520 U	0.0840 U	0.870
LM-D-1	'0-0.5	10/9/2006	0.250 U	0.240 U	0.220 U	0.200 U	0.290 U	0.150 U	0.240 U	0.190 U
LM-D-2	'0-0.5	10/9/2006	0.420 U	0.410 U	0.380 U	0.340 U	0.490 U	0.250 U	0.400 U	0.320 U
LM-D-3	'0-0.5	10/9/2006	0.340 U	0.320 U	0.300 U	0.270 U	0.390 U	0.200 U	0.320 U	0.260 U
LM-D-4	'0-0.5	10/9/2006	0.470 U	0.450 U	0.420 U	0.380 U	0.540 U	0.280 U	0.440 U	0.360 U
LM-E-1	'0-0.5	10/9/2006	0.380 U	0.370 U	0.350 U	0.310 U	0.450 U	0.747 J	0.370 U	0.486 J
LM-E-2	'0-0.5	10/9/2006	0.340 U	0.330 U	0.310 U	0.280 U	0.400 U	0.200 U	0.330 U	0.260 U
LM-E-3	'0-0.5	10/5/2006	0.220 UJ	0.210 UJ	0.200 UJ	0.180 UJ	0.250 UJ	0.130 UJ	0.210 UJ	0.170 UJ
LM-E-4	'0-0.5	10/5/2006	0.180 UJ	0.180 UJ	0.170 UJ	0.150 UJ	0.210 UJ	0.110 UJ	0.180 UJ	0.140 UJ
LM-F-1	'0-0.5	10/9/2006	0.0520 U	0.0510 U	0.0470 U	0.0420 U	0.0610 U	0.0310 U	0.0500 U	0.0400 U
LM-F-2	'0-0.5	10/9/2006	0.110 U	0.110 U	0.100 U	0.0900 U	0.130 U	0.0660 U	0.110 U	0.0850 U
LM-F-3	'0-0.5	10/5/2006	0.200 UJ	0.190 UJ	0.180 UJ	0.160 UJ	0.230 UJ	0.120 UJ	0.190 UJ	0.150 UJ
LM-F-4	'0-0.5	10/9/2006	0.240 U	0.230 U	0.210 U	0.190 U	0.270 U	0.140 U	0.230 U	0.180 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1s-_Alpha_-Pinene mg/kg	2-Butanone (MEK) mg/kg	2-Hexanone mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	Acetic Acid, Methyl Ester mg/kg
SRS			3	5	59000	12		44000			
LM-A-1	'0-0.5	9/21/2006	0.200 UJ	0.210 UJ	0.180 UJ	0.172 J		1.00 UJ	0.510 UJ	0.740 UJ	1.48 J
LM-A-2	'0-0.5	9/21/2006	0.140 UJ	0.150 UJ	0.130 UJ	0.120 UJ		0.720 UJ	0.360 UJ	0.530 UJ	4.87 J
LM-A-3	'0-0.5	9/21/2006	0.449 J	0.170 UJ	0.150 UJ	0.176 J		0.840 UJ	0.420 UJ	0.620 UJ	2.67 J
LM-A-4	'0-0.5	10/10/2006	0.332	0.130 U	0.250 J	0.888 J		0.650 U	0.320 U	0.470 U	1.67
LM-B-1	'0-0.5	10/10/2006	0.0940 U	0.0960 U	0.0840 U	0.0790 U		0.470 U	0.230 U	0.340 U	0.240 U
LM-B-2	'0-0.5	10/10/2006	0.0740 U	0.0760 U	0.0670 U	0.0630 U		0.370 U	0.190 U	0.270 U	0.190 U
LM-B-3	'0-0.5	10/4/2006	0.0400 U	0.0410 U	0.0360 U	0.0340 U		0.200 U	0.100 U	0.150 U	0.100 U
LM-B-4	'0-0.5	10/4/2006	0.0460 U	0.0470 U	0.0420 U	0.0390 U	1.70 JN	0.230 U	0.120 U	0.170 U	0.120 U
LM-C-1	'0-0.5	10/10/2006	0.120 U	0.120 U	0.110 U	0.160 J		0.590 U	0.300 U	0.430 U	9.54
LM-C-2	'0-0.5	10/10/2006	0.0670 U	0.0690 U	0.0648 J	0.139 J		0.340 U	0.170 U	0.250 U	1.18
LM-C-2-DUP	'0-0.5	10/10/2006	0.0780 U	0.0790 U	0.0700 U	0.0894 J		0.390 U	0.190 U	0.290 U	4.31
LM-C-3	'0-0.5	10/10/2006	0.130 U	0.130 U	0.731 J	0.981 J		0.640 U	0.320 U	0.470 U	6.97
LM-C-4	'0-0.5	10/10/2006	0.0810 U	0.0830 U	2.34	9.97		0.410 U	0.200 U	0.300 U	1.17
LM-D-1	'0-0.5	10/9/2006	0.230 U	0.230 U	0.200 U	0.190 U		1.10 U	0.570 U	0.830 U	7.21
LM-D-2	'0-0.5	10/9/2006	0.380 U	0.390 U	0.350 U	0.330 U		1.90 U	0.960 U	1.40 U	9.03
LM-D-3	'0-0.5	10/9/2006	0.310 U	0.310 U	0.280 U	0.260 U		1.50 U	0.770 U	1.10 U	29.7
LM-D-4	'0-0.5	10/9/2006	0.430 U	0.440 U	0.380 U	0.360 U		2.10 U	1.10 U	1.60 U	1.10 U
LM-E-1	'0-0.5	10/9/2006	0.350 U	0.360 U	0.320 U	0.562 J		1.80 U	0.880 U	1.30 U	6.43
LM-E-2	'0-0.5	10/9/2006	0.310 U	0.320 U	0.280 U	0.260 U		1.60 U	0.780 U	1.10 U	13.4
LM-E-3	'0-0.5	10/5/2006	0.200 UJ	0.200 UJ	0.180 UJ	0.170 UJ		1.00 UJ	0.500 UJ	0.730 UJ	5.45 J
LM-E-4	'0-0.5	10/5/2006	0.170 UJ	0.170 UJ	0.150 UJ	0.140 UJ		1.76 J	0.420 UJ	0.620 UJ	30.9 J
LM-F-1	'0-0.5	10/9/2006	0.0480 U	0.0490 U	0.0430 U	0.0410 U		0.240 U	0.120 U	0.180 U	3.32
LM-F-2	'0-0.5	10/9/2006	0.100 U	0.100 U	0.0920 U	0.0860 U		0.510 U	0.260 U	0.370 U	14.4
LM-F-3	'0-0.5	10/5/2006	0.180 UJ	0.190 UJ	0.160 UJ	0.160 UJ		0.920 UJ	0.460 UJ	0.670 UJ	7.93 J
LM-F-4	'0-0.5	10/9/2006	0.220 U	0.220 U	0.190 U	0.180 U		1.10 U	0.540 U	0.790 U	1.36 J

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetone mg/kg	Benzene mg/kg	Bromo-dichloromethane mg/kg	Bromoform mg/kg	Bromomethane mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloroethane mg/kg
SRS				4	3	250	53	110000	2	7400	7	1100
LM-A-1	'0-0.5	9/21/2006	1.10 UJ	0.180 UJ	0.170 UJ	0.160 UJ	0.140 UJ	0.314 J	0.350 UJ	0.160 UJ	0.210 UJ	0.650 UJ
LM-A-2	'0-0.5	9/21/2006	0.760 UJ	0.130 UJ	0.120 UJ	0.110 UJ	0.0980 UJ	0.150 UJ	0.250 UJ	0.110 UJ	0.150 UJ	0.460 UJ
LM-A-3	'0-0.5	9/21/2006	0.880 UJ	0.150 UJ	0.140 UJ	0.130 UJ	0.110 UJ	0.170 UJ	0.290 UJ	0.269 J	0.170 UJ	0.540 UJ
LM-A-4	'0-0.5	10/10/2006	0.680 U	0.110 U	0.110 U	0.100 U	0.0880 U	0.130 U	0.230 U	1.19 J	0.130 U	0.410 U
LM-B-1	'0-0.5	10/10/2006	0.490 U	0.135 J	0.0790 U	0.0750 U	0.0640 U	0.0950 U	0.160 U	0.161 J	0.0950 U	0.300 U
LM-B-2	'0-0.5	10/10/2006	0.390 U	0.0650 U	0.0620 U	0.0590 U	0.0500 U	0.0750 U	0.130 U	0.0590 U	0.0750 U	0.240 U
LM-B-3	'0-0.5	10/4/2006	0.210 U	0.0360 U	0.0340 U	0.0320 U	0.0270 U	0.0410 U	0.0700 U	0.0320 U	0.0410 U	0.130 U
LM-B-4	'0-0.5	10/4/2006	0.240 U	0.0410 U	0.0390 U	0.0370 U	0.0320 U	0.0470 U	0.0810 U	0.0370 U	0.0470 U	0.150 U
LM-C-1	'0-0.5	10/10/2006	0.620 U	0.100 U	0.0990 U	0.0940 U	0.0800 U	0.196 J	0.210 U	0.0940 U	0.120 U	0.380 U
LM-C-2	'0-0.5	10/10/2006	0.360 U	0.0600 U	0.0570 U	0.0540 U	0.0460 U	0.0690 U	0.120 U	0.0540 U	0.0680 U	0.220 U
LM-C-2-DUP	'0-0.5	10/10/2006	0.410 U	0.0690 U	0.0650 U	0.0620 U	0.0530 U	0.161 J	0.140 U	0.0620 U	0.0790 U	0.250 U
LM-C-3	'0-0.5	10/10/2006	0.670 U	0.110 U	0.110 U	0.100 U	0.0860 U	0.130 U	0.220 U	2.94	0.130 U	0.410 U
LM-C-4	'0-0.5	10/10/2006	0.430 U	0.0720 U	0.0680 U	0.0650 U	0.0550 U	0.183 J	0.140 U	120.	0.0820 U	0.260 U
LM-D-1	'0-0.5	10/9/2006	1.20 U	0.200 U	0.190 U	0.180 U	0.150 U	0.230 U	0.390 U	0.180 U	0.230 U	0.720 U
LM-D-2	'0-0.5	10/9/2006	2.00 U	0.340 U	0.320 U	0.310 U	0.260 U	0.390 U	0.670 U	0.310 U	0.390 U	1.20 U
LM-D-3	'0-0.5	10/9/2006	1.60 U	0.270 U	0.260 U	0.250 U	0.210 U	0.819 J	0.540 U	0.250 U	0.310 U	0.980 U
LM-D-4	'0-0.5	10/9/2006	2.30 U	0.380 U	0.360 U	0.340 U	0.290 U	0.430 U	0.750 U	0.340 U	0.430 U	1.40 U
LM-E-1	'0-0.5	10/9/2006	1.90 U	0.310 U	0.300 U	0.280 U	0.240 U	0.500 J	0.620 U	0.280 U	0.360 U	1.10 U
LM-E-2	'0-0.5	10/9/2006	1.60 U	0.280 U	0.260 U	0.250 U	0.210 U	0.320 U	0.550 U	0.250 U	0.320 U	1.00 U
LM-E-3	'0-0.5	10/5/2006	1.10 UJ	0.180 UJ	0.170 UJ	0.160 UJ	0.140 UJ	0.200 UJ	0.350 UJ	0.160 UJ	0.200 UJ	0.640 UJ
LM-E-4	'0-0.5	10/5/2006	0.890 UJ	0.150 UJ	0.140 UJ	0.140 UJ	0.120 UJ	0.170 UJ	0.300 UJ	0.140 UJ	0.170 UJ	0.540 UJ
LM-F-1	'0-0.5	10/9/2006	0.250 U	0.0420 U	0.0400 U	0.0380 U	0.0330 U	0.128 J	0.0840 U	0.0380 U	0.0490 U	0.150 U
LM-F-2	'0-0.5	10/9/2006	0.540 U	0.0900 U	0.0860 U	0.0810 U	0.0690 U	0.409 J	0.180 U	0.0810 U	0.100 U	0.330 U
LM-F-3	'0-0.5	10/5/2006	1.53 J	0.160 UJ	0.150 UJ	0.150 UJ	0.120 UJ	0.190 UJ	0.320 UJ	0.150 UJ	0.190 UJ	0.590 UJ
LM-F-4	'0-0.5	10/9/2006	1.10 U	0.190 U	0.180 U	0.170 U	0.150 U	0.220 U	0.380 U	0.170 U	0.220 U	0.690 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chloroform mg/kg	Chloromethane mg/kg	Cis-1,2-Dichloroethene mg/kg	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Dichloro-difluoromethane mg/kg	Dimethyl Sulfide mg/kg	Ethylbenzene mg/kg
SRS			2	11	500	6		0.2	230000		110000
LM-A-1	'0-0.5	9/21/2006	0.220 UJ	0.170 UJ	0.250 UJ	0.150 UJ	0.480 UJ	0.800 UJ	0.300 UJ		0.170 U
LM-A-2	'0-0.5	9/21/2006	0.150 UJ	0.120 UJ	0.180 UJ	0.110 UJ	0.340 UJ	0.570 UJ	0.210 UJ		0.120 UJ
LM-A-3	'0-0.5	9/21/2006	0.180 UJ	0.140 UJ	0.210 UJ	0.130 UJ	0.400 UJ	0.660 UJ	0.250 UJ		0.140 UJ
LM-A-4	'0-0.5	10/10/2006	0.978 J	0.110 U	0.160 U	0.0980 U	0.300 U	0.510 U	0.190 U		0.110 U
LM-B-1	'0-0.5	10/10/2006	0.100 U	0.0790 U	0.120 U	0.0710 U	0.220 U	0.370 U	0.140 U		0.0780 U
LM-B-2	'0-0.5	10/10/2006	0.0800 U	0.0630 U	0.0920 U	0.0570 U	0.180 U	0.290 U	0.110 U		0.0620 U
LM-B-3	'0-0.5	10/4/2006	0.0430 U	0.0340 U	0.0500 U	0.0310 U	0.0950 U	0.160 U	0.0590 U		0.0330 U
LM-B-4	'0-0.5	10/4/2006	0.0500 U	0.0390 U	0.0570 U	0.0350 U	0.110 U	0.180 U	0.0680 U		0.0390 U
LM-C-1	'0-0.5	10/10/2006	0.130 U	0.100 U	0.150 U	0.0900 U	0.280 U	0.470 U	0.170 U		0.0980 U
LM-C-2	'0-0.5	10/10/2006	0.0720 U	0.0570 U	0.0830 U	0.0510 U	0.160 U	0.270 U	0.0990 U		0.0560 U
LM-C-2-DUP	'0-0.5	10/10/2006	0.0830 U	0.0660 U	0.0960 U	0.0590 U	0.180 U	0.310 U	0.110 U		0.0650 U
LM-C-3	'0-0.5	10/10/2006	0.140 U	0.110 U	0.160 U	0.0970 U	0.300 U	0.500 U	0.190 U		0.110 U
LM-C-4	'0-0.5	10/10/2006	0.0870 U	0.0690 U	0.100 U	0.0620 U	0.190 U	0.320 U	0.120 U		0.0670 U
LM-D-1	'0-0.5	10/9/2006	0.240 U	0.190 U	0.280 U	0.170 U	0.530 U	0.890 U	0.330 U		0.190 U
LM-D-2	'0-0.5	10/9/2006	0.410 U	0.330 U	0.470 U	0.290 U	0.910 U	1.50 U	0.560 U		0.320 U
LM-D-3	'0-0.5	10/9/2006	0.426 J	0.260 U	0.380 U	0.230 U	0.720 U	1.20 U	0.450 U		0.250 U
LM-D-4	'0-0.5	10/9/2006	0.460 U	0.360 U	0.530 U	0.330 U	1.00 U	1.70 U	0.630 U		0.350 U
LM-E-1	'0-0.5	10/9/2006	0.380 U	0.300 U	0.440 U	0.270 U	0.830 U	1.40 U	0.510 U		0.290 U
LM-E-2	'0-0.5	10/9/2006	0.340 U	0.270 U	0.390 U	0.240 U	0.740 U	1.20 U	0.460 U		0.260 U
LM-E-3	'0-0.5	10/5/2006	0.210 UJ	0.170 UJ	0.250 UJ	0.150 UJ	0.470 UJ	0.790 UJ	0.290 UJ		0.170 UJ
LM-E-4	'0-0.5	10/5/2006	0.180 UJ	0.140 UJ	0.210 UJ	0.130 UJ	0.400 UJ	0.670 UJ	0.250 UJ		0.140 UJ
LM-F-1	'0-0.5	10/9/2006	0.0510 U	0.0410 U	0.0590 U	0.0370 U	0.110 U	0.190 U	0.0700 U		0.0400 U
LM-F-2	'0-0.5	10/9/2006	0.110 U	0.0860 U	0.130 U	0.0780 U	0.240 U	0.400 U	0.150 U		0.0840 U
LM-F-3	'0-0.5	10/5/2006	0.200 UJ	0.160 UJ	0.230 UJ	0.140 UJ	0.430 UJ	0.730 UJ	0.270 UJ	21.0 JN	0.150 UJ
LM-F-4	'0-0.5	10/9/2006	0.230 U	0.180 U	0.270 U	0.170 U	0.510 U	0.860 U	0.320 U	2.60 JN	0.180 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Isopropylbenzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	O-xylene mg/kg	Styrene mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetrachloroethylene(PERC) mg/kg	Toluene mg/kg
SRS						87		230	290	5	91000
LM-A-1	'0-0.5	9/21/2006	0.170 UJ	0.330 UJ	0.240 UJ	0.260 UJ	0.180 UJ	0.120 UJ	0.210 UJ	0.310 UJ	0.200 UJ
LM-A-2	'0-0.5	9/21/2006	0.120 UJ	0.230 UJ	0.170 UJ	0.180 UJ	0.130 UJ	0.0860 UJ	0.150 UJ	0.220 UJ	0.140 UJ
LM-A-3	'0-0.5	9/21/2006	0.140 UJ	0.270 UJ	0.200 UJ	0.210 UJ	0.150 UJ	0.100 UJ	0.170 UJ	0.250 UJ	0.170 UJ
LM-A-4	'0-0.5	10/10/2006	0.110 U	0.210 U	0.150 U	0.160 U	0.120 U	0.0780 U	0.130 U	0.285 J	0.130 U
LM-B-1	'0-0.5	10/10/2006	0.0800 U	0.150 U	0.110 U	0.120 U	0.0850 U	0.0560 U	0.0960 U	0.140 U	0.0930 U
LM-B-2	'0-0.5	10/10/2006	0.0640 U	0.120 U	0.0880 U	0.0940 U	0.0670 U	0.0450 U	0.0760 U	0.110 U	0.0740 U
LM-B-3	'0-0.5	10/4/2006	0.0340 U	0.0650 U	0.0480 U	0.0510 U	0.0370 U	0.0240 U	0.0410 U	0.0610 U	0.0400 U
LM-B-4	'0-0.5	10/4/2006	0.0400 U	0.0750 U	0.0550 U	0.0590 U	0.0420 U	0.0280 U	0.0480 U	0.0700 U	0.0460 U
LM-C-1	'0-0.5	10/10/2006	0.100 U	0.190 U	0.140 U	0.150 U	0.110 U	0.0710 U	0.120 U	0.180 U	0.120 U
LM-C-2	'0-0.5	10/10/2006	0.0580 U	0.110 U	0.0800 U	0.0860 U	0.0610 U	0.0410 U	0.0690 U	0.100 U	0.0670 U
LM-C-2-DUP	'0-0.5	10/10/2006	0.0670 U	0.130 U	0.0920 U	0.0990 U	0.0710 U	0.0470 U	0.0800 U	0.120 U	0.0780 U
LM-C-3	'0-0.5	10/10/2006	0.110 U	0.210 U	0.150 U	0.160 U	0.120 U	0.0770 U	0.130 U	0.190 U	0.130 U
LM-C-4	'0-0.5	10/10/2006	0.0690 U	0.130 U	0.0960 U	0.100 U	0.0740 U	0.0490 U	0.0830 U	0.120 U	0.0810 U
LM-D-1	'0-0.5	10/9/2006	0.190 U	0.360 U	0.270 U	0.290 U	0.210 U	0.140 U	0.230 U	0.340 U	0.230 U
LM-D-2	'0-0.5	10/9/2006	0.330 U	0.620 U	0.460 U	0.490 U	0.350 U	0.230 U	0.400 U	0.580 U	0.380 U
LM-D-3	'0-0.5	10/9/2006	0.260 U	0.500 U	0.360 U	0.390 U	0.280 U	0.190 U	0.320 U	0.470 U	0.310 U
LM-D-4	'0-0.5	10/9/2006	0.370 U	0.690 U	0.510 U	0.540 U	0.390 U	0.260 U	0.440 U	0.650 U	0.430 U
LM-E-1	'0-0.5	10/9/2006	0.300 U	0.570 U	0.420 U	0.450 U	0.320 U	0.210 U	0.360 U	0.530 U	0.350 U
LM-E-2	'0-0.5	10/9/2006	0.270 U	0.500 U	0.370 U	0.400 U	0.280 U	0.190 U	0.320 U	0.470 U	0.310 U
LM-E-3	'0-0.5	10/5/2006	0.170 UJ	0.320 UJ	0.240 UJ	0.250 UJ	0.180 UJ	0.120 UJ	0.210 UJ	0.300 UJ	0.200 UJ
LM-E-4	'0-0.5	10/5/2006	0.150 UJ	0.270 UJ	0.200 UJ	0.220 UJ	0.150 UJ	0.100 UJ	0.170 UJ	0.260 UJ	0.170 UJ
LM-F-1	'0-0.5	10/9/2006	0.0410 U	0.0780 U	0.0570 U	0.0610 U	0.0440 U	0.0290 U	0.0490 U	0.0730 U	0.0480 U
LM-F-2	'0-0.5	10/9/2006	0.0870 U	0.160 U	0.120 U	0.130 U	0.0920 U	0.0610 U	0.100 U	0.150 U	0.100 U
LM-F-3	'0-0.5	10/5/2006	0.160 UJ	0.300 UJ	0.220 UJ	0.230 UJ	0.170 UJ	0.110 UJ	0.190 UJ	0.280 UJ	0.180 UJ
LM-F-4	'0-0.5	10/9/2006	0.190 U	0.350 U	0.260 U	0.280 U	0.200 U	0.130 U	0.220 U	0.330 U	0.220 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene mg/kg	Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
SRS			650	6	18	340000		2	170000
LM-A-1	'0-0.5	9/21/2006	0.260 UJ	0.150 UJ	0.190 UJ	0.270 UJ	0.320 UJ	0.240 UJ	0.180 UJ
LM-A-2	'0-0.5	9/21/2006	0.180 UJ	0.100 UJ	0.140 UJ	0.190 UJ	0.230 UJ	0.170 UJ	0.130 UJ
LM-A-3	'0-0.5	9/21/2006	0.210 UJ	0.120 UJ	0.160 UJ	0.230 UJ	0.260 UJ	0.200 UJ	0.150 UJ
LM-A-4	'0-0.5	10/10/2006	0.160 U	0.0930 U	0.120 U	0.170 U	0.200 U	0.150 U	0.120 U
LM-B-1	'0-0.5	10/10/2006	0.120 U	0.0680 U	0.0900 U	0.130 U	0.150 U	0.110 U	0.0850 U
LM-B-2	'0-0.5	10/10/2006	0.0930 U	0.0540 U	0.0710 U	0.100 U	0.120 U	0.0880 U	0.0670 U
LM-B-3	'0-0.5	10/4/2006	0.0510 U	0.0290 U	0.0390 U	0.0540 U	0.0630 U	0.0480 U	0.0370 U
LM-B-4	'0-0.5	10/4/2006	0.0580 U	0.0340 U	0.0450 U	0.0620 U	0.0730 U	0.0550 U	0.0420 U
LM-C-1	'0-0.5	10/10/2006	0.150 U	0.0850 U	0.110 U	0.160 U	0.190 U	0.140 U	0.110 U
LM-C-2	'0-0.5	10/10/2006	0.0850 U	0.0490 U	0.0650 U	0.0900 U	0.110 U	0.0800 U	0.0610 U
LM-C-2-DUP	'0-0.5	10/10/2006	0.0980 U	0.0560 U	0.0750 U	0.100 U	0.120 U	0.0930 U	0.0710 U
LM-C-3	'0-0.5	10/10/2006	0.160 U	0.0920 U	0.120 U	0.170 U	0.200 U	0.150 U	0.120 U
LM-C-4	'0-0.5	10/10/2006	0.100 U	0.0590 U	0.0780 U	0.110 U	0.130 U	0.0960 U	0.0740 U
LM-D-1	'0-0.5	10/9/2006	0.280 U	0.160 U	0.220 U	0.300 U	0.360 U	0.270 U	0.210 U
LM-D-2	'0-0.5	10/9/2006	0.480 U	0.280 U	0.370 U	0.520 U	0.610 U	0.460 U	0.350 U
LM-D-3	'0-0.5	10/9/2006	0.390 U	0.220 U	0.290 U	0.410 U	0.480 U	0.370 U	0.280 U
LM-D-4	'0-0.5	10/9/2006	0.540 U	0.310 U	0.410 U	0.570 U	0.670 U	0.510 U	0.390 U
LM-E-1	'0-0.5	10/9/2006	0.440 U	0.250 U	0.340 U	0.470 U	0.560 U	0.420 U	0.320 U
LM-E-2	'0-0.5	10/9/2006	0.390 U	0.230 U	0.300 U	0.420 U	0.490 U	0.370 U	0.280 U
LM-E-3	'0-0.5	10/5/2006	0.250 UJ	0.140 UJ	0.190 UJ	0.270 UJ	0.320 UJ	0.240 UJ	0.180 UJ
LM-E-4	'0-0.5	10/5/2006	0.210 UJ	0.120 UJ	0.160 UJ	0.230 UJ	0.270 UJ	0.200 UJ	0.150 UJ
LM-F-1	'0-0.5	10/9/2006	0.0600 U	0.0350 U	0.0460 U	0.0640 U	0.0760 U	0.0570 U	0.0440 U
LM-F-2	'0-0.5	10/9/2006	0.130 U	0.0740 U	0.0980 U	0.140 U	0.160 U	0.120 U	0.0920 U
LM-F-3	'0-0.5	10/5/2006	0.230 UJ	0.130 UJ	0.180 UJ	0.250 UJ	0.290 UJ	0.220 UJ	0.170 UJ
LM-F-4	'0-0.5	10/9/2006	0.270 U	0.160 U	0.210 U	0.290 U	0.340 U	0.260 U	0.200 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide	Inorganic Carbon
			mg/kg	mg/kg
SRS			2300	
LM-A-1	'0-0.5	9/21/2006	5.90 J	
LM-A-2	'0-0.5	9/21/2006	0.620 UJ	
LM-A-3	'0-0.5	9/21/2006	0.790 J	
LM-A-4	'0-0.5	10/10/2006	1.10	
LM-B-1	'0-0.5	10/10/2006	1.60	
LM-B-2	'0-0.5	10/10/2006	0.430 U	
LM-B-3	'0-0.5	10/4/2006	0.270	
LM-B-4	'0-0.5	10/4/2006	0.330 U	
LM-C-1	'0-0.5	10/10/2006	0.480 U	
LM-C-2	'0-0.5	10/10/2006	0.340 U	
LM-C-2-DUP	'0-0.5	10/10/2006	0.430 U	
LM-C-3	'0-0.5	10/10/2006	0.520 U	
LM-C-4	'0-0.5	10/10/2006	0.460 U	
LM-D-1	'0-0.5	10/9/2006	0.780 U	
LM-D-2	'0-0.5	10/9/2006	1.40 U	
LM-D-3	'0-0.5	10/9/2006	1.10 U	
LM-D-4	'0-0.5	10/9/2006	1.50 U	
LM-E-1	'0-0.5	10/9/2006	1.20 U	
LM-E-2	'0-0.5	10/9/2006	1.20 U	
LM-E-3	'0-0.5	10/5/2006	0.840 J	
LM-E-4	'0-0.5	10/5/2006	0.660 UJ	2.00 J
LM-F-1	'0-0.5	10/9/2006	0.290 U	
LM-F-2	'0-0.5	10/9/2006	0.500 U	
LM-F-3	'0-0.5	10/5/2006	0.750 UJ	
LM-F-4	'0-0.5	10/9/2006	0.920 U	

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,3,4,6,7,8-HPCDD	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDD	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDD	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDD	1,2,3,7,8,9-HXCDF
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LM-A-3	'0-0.5	9/21/2006	0.0000515	0.0000460	0.00000739 A	0.00000105 A	0.0000248	0.00000361 A	0.0000103 DPE	0.00000238 A	0.00000712 A
LM-B-2	'0-0.5	10/10/2006	0.0000390	0.0000436	0.0000154	0.00000107 A	0.0000701	0.00000319 A	0.0000190 DPE	0.00000265 A	0.0000276
LM-B-3	'0-0.5	10/4/2006	0.0000235	0.0000532	0.0000236	0.00000106 A	0.0000909	0.00000220 A	0.0000262	0.00000173 A	0.0000375
LM-C-2	0-0.5	10/10/2006	0.0000307	0.000124	0.0000886	0.000000659 A	0.000405 DPE	0.00000276 A	0.0000979 DPE	0.00000143 A	0.000189
LM-C-2-DUP	'0-0.5	10/10/2006	0.0000235	0.0000766	0.0000622	0.000000429 A	0.000265 DPE	0.00000200 A	0.0000662 DPE	0.000000995 A	0.000136
LM-D-2	'0-0.5	10/9/2006	0.0000583	0.0000468	0.00000547 A	0.00000295 A	0.0000171 A	0.00000531 A	0.00000756 A	0.00000349 A	0.00000440 A
LM-D-3	'0-0.5	10/9/2006	0.000295	0.000179	0.0000249	0.00000487 A	0.0000887	0.0000147	0.0000260 DPE	0.00000970 A	0.0000278
LM-E-3	'0-0.5	10/5/2006	0.000610	0.000497	0.0000504	0.0000182	0.000184	0.0000622	0.0000677 DPE	0.0000359	0.0000557
LM-F-2	'0-0.5	10/9/2006	0.00111	0.000596	0.0000593 A	0.0000221 A	0.000156	0.0000874 A	0.0000682 A	0.0000515 A	0.0000347 A

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,3,7,8-PECDD	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDF	2,3,7,8-Tetra-chlorodibenzo-P-Dioxin	OCDD	OCDF	Total HPCDDS
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LM-A-3	'0-0.5	9/21/2006	0.00000137 A	0.0000198 DPE	0.00000551 A	0.0000212	0.0000512	0.00000368	0.000638	0.0000987	0.000139
LM-B-2	'0-0.5	10/10/2006	0.00000120 A	0.0000553 DPE	0.00000916	0.0000564	0.0000508	0.00000214	0.000373	0.000130	0.0000874
LM-B-3	'0-0.5	10/4/2006	0.00000104 A	0.0000513 DPE	0.0000148	0.0000617	0.0000226	0.000000790 A	0.000882	0.000122	0.0000526
LM-C-2	0-0.5	10/10/2006	0.000000615 A	0.000277 DPE	0.0000432	0.000334	0.000111	0.00000135 A	0.000253	0.000362	0.0000688
LM-C-2-DUP	'0-0.5	10/10/2006	0.000000427 A	0.000199 DPE	0.0000318	0.000241	0.0000877	0.00000103 A	0.000190	0.000225	0.0000545
LM-D-2	'0-0.5	10/9/2006	0.00000241 A	0.0000110 A	0.00000740 A	0.0000137 A	0.0000161	0.00000612	0.000562	0.0000657	0.000127
LM-D-3	'0-0.5	10/9/2006	0.00000366 A	0.0000548 DPE	0.0000199	0.0000657	0.0000825	0.0000127	0.00287	0.000377	0.000691
LM-E-3	'0-0.5	10/5/2006	0.00000956 A	0.0000937 DPE	0.0000643	0.000122	0.000113	0.0000650 Q	0.00807	0.000907	0.00195
LM-F-2	'0-0.5	10/9/2006	0.0000234 A	0.0000588 DPE A	0.0000776 A	0.000129	0.000102	0.0000782	0.0102	0.00129	0.00272

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total HPCDFS mg/kg	Total HXCDDS mg/kg	Total HXCDFS mg/kg	Total PECDDS mg/kg	Total PECDFS mg/kg	Total TCDDS mg/kg	Total TCDFS mg/kg
LM-A-3	'0-0.5	9/21/2006	0.0000795	0.0000398	0.0000888	0.0000192	0.000137	0.0000274	0.000247
LM-B-2	'0-0.5	10/10/2006	0.0000877	0.0000322	0.000164	0.0000152	0.000213	0.0000183	0.000191
LM-B-3	'0-0.5	10/4/2006	0.000108	0.0000239	0.000214	0.0000137	0.000210	0.00000961	0.000103
LM-C-2	0-0.5	10/10/2006	0.000310	0.0000247	0.000868	0.00000613	0.000956	0.00000692	0.000392
LM-C-2-DUP	'0-0.5	10/10/2006	0.000211	0.0000172	0.000601	0.00000453	0.000684	0.00000525	0.000302
LM-D-2	'0-0.5	10/9/2006	0.0000792	0.0000493	0.0000920	0.0000211	0.000138	0.0000594	0.000128
LM-D-3	'0-0.5	10/9/2006	0.000332	0.000159	0.000304	0.0000415	0.000361	0.0000686	0.000344
LM-E-3	'0-0.5	10/5/2006	0.00104	0.000593	0.000815	0.000190	0.000756	0.000250	0.00122
LM-F-2	'0-0.5	10/9/2006	0.00139	0.000720	0.000966	0.000309	0.000557	0.000319	0.000847

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1'-Biphenyl	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloro-naphthalene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			34000	68000	74	2100	14000	1400	3	3	
LM-A-1	'0-0.5	9/21/2006	0.0450 UJ	0.140 UJ	0.0790 UJ	0.160 UJ	0.240 UJ	0.140 UJ	0.110 UJ	0.110 UJ	0.130 UJ
LM-A-2	'0-0.5	9/21/2006	0.0420 UJ	0.130 UJ	0.0740 UJ	0.150 UJ	0.220 UJ	0.130 UJ	0.100 UJ	0.100 UJ	0.120 UJ
LM-A-3	'0-0.5	9/21/2006	0.0390 UJ	0.120 UJ	0.0690 UJ	0.140 UJ	0.210 UJ	0.120 UJ	0.0950 UJ	0.0930 UJ	0.110 UJ
LM-A-4	'0-0.5	10/10/2006	0.0430 U	0.130 U	0.0750 U	0.150 U	0.230 U	0.140 U	0.100 U	0.100 U	0.120 U
LM-B-1	'0-0.5	10/10/2006	0.0340 U	0.110 U	0.0600 U	0.120 U	0.180 U	0.110 U	0.0830 U	0.0810 U	0.100 U
LM-B-2	'0-0.5	10/10/2006	0.0300 U	0.0920 U	0.0510 U	0.100 U	0.160 U	0.0930 U	0.0710 U	0.0700 U	0.0860 U
LM-B-3	'0-0.5	10/4/2006	0.0210 U	0.0650 U	0.0370 U	0.0730 U	0.110 U	0.0660 U	0.0500 U	0.0500 U	0.0610 U
LM-B-4	'0-0.5	10/4/2006	0.0230 U	0.0710 U	0.0400 U	0.0790 U	0.120 U	0.0720 U	0.0550 U	0.0540 U	0.0660 U
LM-C-1	'0-0.5	10/10/2006	0.0340 U	0.110 U	0.0590 U	0.120 U	0.180 U	0.110 U	0.0820 U	0.0800 U	0.0980 U
LM-C-2	'0-0.5	10/10/2006	0.0260 U	0.0810 U	0.0450 U	0.0900 U	0.140 U	0.0820 U	0.0630 U	0.0620 U	0.0760 U
LM-C-2-DUP	'0-0.5	10/10/2006	0.0300 U	0.0950 U	0.0530 U	0.110 U	0.160 U	0.0960 U	0.0730 U	0.0720 U	0.0880 U
LM-C-3	'0-0.5	10/10/2006	0.0370 U	0.120 U	0.0650 U	0.130 U	0.200 U	0.120 U	0.0900 U	0.0880 U	0.110 U
LM-C-4	'0-0.5	10/10/2006	0.0340 U	0.110 U	0.0590 U	0.120 U	0.180 U	0.110 U	0.0820 U	0.0800 U	0.0980 U
LM-D-1	'0-0.5	10/9/2006	0.0610 U	0.190 U	0.110 U	0.210 U	0.320 U	0.190 U	0.150 U	0.140 U	0.180 U
LM-D-2	'0-0.5	10/9/2006	0.0990 U	0.310 U	0.170 U	0.340 U	0.520 U	0.310 U	0.240 U	0.230 U	0.290 U
LM-D-3	'0-0.5	10/9/2006	0.0770 U	0.240 U	0.130 U	0.270 U	0.410 U	0.240 U	0.180 U	0.180 U	0.220 U
LM-D-4	'0-0.5	10/9/2006	0.100 U	0.320 U	0.180 U	0.360 U	0.550 U	0.320 U	0.250 U	0.240 U	0.300 U
LM-E-1	'0-0.5	10/9/2006	0.0820 U	0.250 U	0.140 U	0.280 U	0.430 U	0.260 U	0.200 U	0.190 U	0.240 U
LM-E-2	'0-0.5	10/9/2006	0.0790 U	0.250 U	0.140 U	0.280 U	0.420 U	0.250 U	0.190 U	0.190 U	0.230 U
LM-E-3	'0-0.5	10/5/2006	0.270 UJ	0.840 UJ	0.470 UJ	0.940 UJ	1.40 UJ	0.850 UJ	0.650 UJ	0.640 UJ	0.790 UJ
LM-E-4	'0-0.5	10/5/2006	0.240 UJ	0.740 UJ	0.420 UJ	0.830 UJ	1.30 UJ	0.750 UJ	0.570 UJ	0.560 UJ	0.690 UJ
LM-F-1	'0-0.5	10/9/2006	0.0200 U	0.0630 U	0.0350 U	0.0700 U	0.110 U	0.0640 U	0.0490 U	0.0480 U	0.0590 U
LM-F-2	'0-0.5	10/9/2006	0.170 U	0.540 U	0.300 U	0.600 U	0.920 U	0.550 U	0.420 U	0.410 U	0.500 U
LM-F-3	'0-0.5	10/5/2006	0.0510 UJ	0.160 UJ	0.0890 UJ	0.180 UJ	0.270 UJ	0.160 UJ	0.120 UJ	0.120 UJ	0.150 UJ
LM-F-4	'0-0.5	10/9/2006	0.0610 U	0.190 U	0.110 U	0.210 U	0.320 U	0.190 U	0.150 U	0.140 U	0.180 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichloro-benzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			2000	2400	3400	83		4		68		
LM-A-1	'0-0.5	9/21/2006	0.0800 UJ	0.0610 UJ	0.0920 UJ	0.0590 UJ	0.120 UJ	0.0890 UJ	0.0730 UJ	0.0820 UJ	0.0480 UJ	0.120 UJ
LM-A-2	'0-0.5	9/21/2006	0.0750 UJ	0.0570 UJ	0.0860 UJ	0.0550 UJ	0.110 UJ	0.0840 UJ	0.0680 UJ	0.0760 UJ	0.0450 UJ	0.110 UJ
LM-A-3	'0-0.5	9/21/2006	0.0700 UJ	0.0530 UJ	0.0800 UJ	0.0520 UJ	0.100 UJ	0.0780 UJ	0.0630 UJ	0.0710 UJ	0.0420 UJ	0.100 UJ
LM-A-4	'0-0.5	10/10/2006	0.0760 U	0.0580 U	0.0870 U	0.0560 U	0.110 U	0.0850 U	0.0690 U	0.0770 U	0.0450 U	0.110 U
LM-B-1	'0-0.5	10/10/2006	0.0610 U	0.0460 U	0.0700 U	0.0450 U	0.0880 U	0.0680 U	0.0550 U	0.0620 U	0.0360 U	0.0910 U
LM-B-2	'0-0.5	10/10/2006	0.0520 U	0.0400 U	0.0600 U	0.0390 U	0.0760 U	0.0580 U	0.0470 U	0.0530 U	0.0310 U	0.0780 U
LM-B-3	'0-0.5	10/4/2006	0.0370 U	0.0280 U	0.0430 U	0.0270 U	0.0540 U	0.0410 U	0.0340 U	0.0380 U	0.0220 U	0.0550 U
LM-B-4	'0-0.5	10/4/2006	0.0410 U	0.0310 U	0.0460 U	0.0300 U	0.0590 U	0.0450 U	0.0370 U	0.0410 U	0.0240 U	0.0600 U
LM-C-1	'0-0.5	10/10/2006	0.0600 U	0.0460 U	0.0690 U	0.0440 U	0.0870 U	0.0670 U	0.0540 U	0.0610 U	0.0360 U	0.0890 U
LM-C-2	'0-0.5	10/10/2006	0.0460 U	0.0350 U	0.0530 U	0.0340 U	0.0670 U	0.0510 U	0.0420 U	0.0470 U	0.0270 U	0.0690 U
LM-C-2-DUP	'0-0.5	10/10/2006	0.0540 U	0.0410 U	0.0620 U	0.0400 U	0.0780 U	0.0600 U	0.0490 U	0.0550 U	0.0320 U	0.0800 U
LM-C-3	'0-0.5	10/10/2006	0.0660 U	0.0500 U	0.0760 U	0.0490 U	0.0960 U	0.0740 U	0.0600 U	0.0670 U	0.0390 U	0.0980 U
LM-C-4	'0-0.5	10/10/2006	0.0600 U	0.0460 U	0.0690 U	0.0440 U	0.0870 U	0.0670 U	0.0540 U	0.0610 U	0.0360 U	0.0890 U
LM-D-1	'0-0.5	10/9/2006	0.110 U	0.0820 U	0.120 U	0.0790 U	0.160 U	0.120 U	0.0970 U	0.110 U	0.0640 U	0.160 U
LM-D-2	'0-0.5	10/9/2006	0.180 U	0.130 U	0.200 U	0.130 U	0.250 U	0.190 U	0.160 U	0.180 U	0.100 U	0.260 U
LM-D-3	'0-0.5	10/9/2006	0.140 U	0.100 U	0.160 U	0.100 U	0.200 U	0.150 U	0.120 U	0.140 U	0.0810 U	0.200 U
LM-D-4	'0-0.5	10/9/2006	0.180 U	0.140 U	0.210 U	0.130 U	0.260 U	0.200 U	0.170 U	0.190 U	0.110 U	0.270 U
LM-E-1	'0-0.5	10/9/2006	0.150 U	0.110 U	0.170 U	0.110 U	0.210 U	0.160 U	0.130 U	0.150 U	0.0860 U	0.220 U
LM-E-2	'0-0.5	10/9/2006	0.140 U	0.110 U	0.160 U	0.100 U	0.200 U	0.160 U	0.130 U	0.140 U	0.0840 U	0.210 U
LM-E-3	'0-0.5	10/5/2006	0.480 UJ	0.370 UJ	0.550 UJ	0.350 UJ	0.700 UJ	0.530 UJ	0.430 UJ	0.490 UJ	0.290 UJ	0.710 UJ
LM-E-4	'0-0.5	10/5/2006	0.420 UJ	0.320 UJ	0.480 UJ	0.310 UJ	0.610 UJ	0.470 UJ	0.380 UJ	0.430 UJ	0.250 UJ	0.630 UJ
LM-F-1	'0-0.5	10/9/2006	0.0360 U	0.0270 U	0.0410 U	0.0260 U	0.0520 U	0.0400 U	0.0320 U	0.0360 U	0.0210 U	0.0530 U
LM-F-2	'0-0.5	10/9/2006	0.310 U	0.230 U	0.350 U	0.230 U	0.450 U	0.340 U	0.280 U	0.310 U	0.180 U	0.460 U
LM-F-3	'0-0.5	10/5/2006	0.0910 UJ	0.0690 UJ	0.100 UJ	0.0670 UJ	0.130 UJ	0.100 UJ	0.0820 UJ	0.0920 UJ	0.0540 UJ	0.130 UJ
LM-F-4	'0-0.5	10/9/2006	0.110 U	0.0820 U	0.120 U	0.0800 U	0.160 U	0.120 U	0.0980 U	0.110 U	0.0640 U	0.160 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			66				37000	300000	4	30000	2400	68000
LM-A-1	'0-0.5	9/21/2006	0.0580 UJ	0.0440 UJ	0.0650 UJ	0.130 UJ	0.0480 UJ	0.0380 UJ	0.0590 UJ	0.0392 J	0.0810 UJ	0.100 UJ
LM-A-2	'0-0.5	9/21/2006	0.0540 UJ	0.0410 UJ	0.0610 UJ	0.120 UJ	0.0450 UJ	0.0360 UJ	0.0550 UJ	0.0625 J	0.0760 UJ	0.0960 UJ
LM-A-3	'0-0.5	9/21/2006	0.0510 UJ	0.0380 UJ	0.0570 UJ	0.110 UJ	0.0420 UJ	0.0330 UJ	0.0520 UJ	0.0320 UJ	0.0710 UJ	0.0900 UJ
LM-A-4	'0-0.5	10/10/2006	0.0550 U	0.0420 U	0.0610 U	0.120 U	0.0450 U	0.0360 U	0.0560 U	0.0522 J	0.0770 U	0.0980 U
LM-B-1	'0-0.5	10/10/2006	0.0440 U	0.0340 U	0.0490 U	0.0970 U	0.0360 U	0.0290 U	0.0450 U	0.0280 U	0.0620 U	0.0780 U
LM-B-2	'0-0.5	10/10/2006	0.0380 U	0.0290 U	0.0420 U	0.0830 U	0.0310 U	0.0250 U	0.0390 U	0.0240 U	0.0530 U	0.0670 U
LM-B-3	'0-0.5	10/4/2006	0.0270 U	0.0200 U	0.0300 U	0.0590 U	0.0220 U	0.0180 U	0.0270 U	0.0170 U	0.0380 U	0.0480 U
LM-B-4	'0-0.5	10/4/2006	0.0290 U	0.0220 U	0.0330 U	0.0650 U	0.0240 U	0.0190 U	0.0300 U	0.0180 U	0.0410 U	0.0520 U
LM-C-1	'0-0.5	10/10/2006	0.0440 U	0.0330 U	0.0490 U	0.0960 U	0.0360 U	0.0280 U	0.0440 U	0.0270 U	0.0610 U	0.0770 U
LM-C-2	'0-0.5	10/10/2006	0.0330 U	0.0250 U	0.0370 U	0.0730 U	0.0280 U	0.0220 U	0.0340 U	0.0210 U	0.0470 U	0.0590 U
LM-C-2-DUP	'0-0.5	10/10/2006	0.0390 U	0.0300 U	0.0440 U	0.0860 U	0.0320 U	0.0260 U	0.0400 U	0.0240 U	0.0550 U	0.0690 U
LM-C-3	'0-0.5	10/10/2006	0.0480 U	0.0360 U	0.0540 U	0.110 U	0.0727 J	0.0432 J	0.0490 U	0.0694 J	0.0670 U	0.0850 U
LM-C-4	'0-0.5	10/10/2006	0.0440 U	0.0330 U	0.0490 U	0.0960 U	0.0360 U	0.0280 U	0.0440 U	0.0270 U	0.0610 U	0.0770 U
LM-D-1	'0-0.5	10/9/2006	0.0780 U	0.0590 U	0.0870 U	0.170 U	0.0640 U	0.0510 U	0.0790 U	0.0490 U	0.110 U	0.140 U
LM-D-2	'0-0.5	10/9/2006	0.130 U	0.0960 U	0.140 U	0.280 U	0.100 U	0.0830 U	0.130 U	0.0790 U	0.180 U	0.220 U
LM-D-3	'0-0.5	10/9/2006	0.0990 U	0.0750 U	0.110 U	0.220 U	0.0854 J	0.451	0.100 U	0.671	0.140 U	0.180 U
LM-D-4	'0-0.5	10/9/2006	0.130 U	0.100 U	0.150 U	0.290 U	0.110 U	0.0860 U	0.130 U	0.146 J	0.180 U	0.230 U
LM-E-1	'0-0.5	10/9/2006	0.110 U	0.0800 U	0.120 U	0.230 U	0.0870 U	0.0690 U	0.110 U	0.0660 U	0.150 U	0.190 U
LM-E-2	'0-0.5	10/9/2006	0.100 U	0.0770 U	0.110 U	0.220 U	0.0840 U	0.0670 U	0.100 U	0.0640 U	0.140 U	0.180 U
LM-E-3	'0-0.5	10/5/2006	0.350 UJ	0.260 UJ	0.390 UJ	0.760 UJ	0.290 UJ	0.230 UJ	0.350 UJ	0.220 UJ	0.480 UJ	0.620 UJ
LM-E-4	'0-0.5	10/5/2006	0.310 UJ	0.230 UJ	0.340 UJ	0.670 UJ	0.250 UJ	0.200 UJ	0.310 UJ	0.190 UJ	0.430 UJ	0.540 UJ
LM-F-1	'0-0.5	10/9/2006	0.0260 U	0.0200 U	0.0290 U	0.0570 U	0.0210 U	0.0170 U	0.0260 U	0.0160 U	0.0360 U	0.0460 U
LM-F-2	'0-0.5	10/9/2006	0.220 U	0.170 U	0.250 U	0.490 U	0.180 U	0.150 U	0.230 U	0.180 J	0.310 U	0.400 U
LM-F-3	'0-0.5	10/5/2006	0.0660 UJ	0.0500 UJ	0.0730 UJ	0.140 UJ	0.0540 UJ	0.0684 J	0.0670 UJ	0.151 J	0.0910 UJ	0.120 UJ
LM-F-4	'0-0.5	10/9/2006	0.0780 U	0.0590 U	0.0870 U	0.170 U	0.0650 U	0.0661 J	0.0800 U	0.0913 J	0.110 U	0.140 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Butyl Benzyl Phthalate
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			2	0_2	2	30000	23		1	60	140	14000
LM-A-1	'0-0.5	9/21/2006	0.0762 J	0.0719 J	0.102 J	0.0510 UJ	0.0762 J	0.0600 UJ	0.0470 UJ	0.0700 UJ	0.975 J	0.0710 UJ
LM-A-2	'0-0.5	9/21/2006	0.157 J	0.111 J	0.151 J	0.0694 J	0.108 J	0.0560 UJ	0.0440 UJ	0.0660 UJ	1.08 J	0.0660 UJ
LM-A-3	'0-0.5	9/21/2006	0.0725 J	0.0666 J	0.103 J	0.0450 UJ	0.0620 UJ	0.0530 UJ	0.0410 UJ	0.0610 UJ	3.18 J	0.0620 UJ
LM-A-4	'0-0.5	10/10/2006	0.131 J	0.135 J	0.217	0.0845 J	0.167 J	0.0570 U	0.0440 U	0.0670 U	0.400	0.0670 U
LM-B-1	'0-0.5	10/10/2006	0.0587 J	0.0574 J	0.0655 J	0.0390 U	0.0540 U	0.0460 U	0.0360 U	0.0530 U	0.204	0.0540 U
LM-B-2	'0-0.5	10/10/2006	0.0447 J	0.0577 J	0.0587 J	0.0330 U	0.0460 U	0.0390 U	0.0300 U	0.0460 U	0.659	0.0460 U
LM-B-3	'0-0.5	10/4/2006	0.0210 U	0.0194 J	0.0221 J	0.0240 U	0.0330 U	0.0280 U	0.0220 U	0.0330 U	0.0560 U	0.0330 U
LM-B-4	'0-0.5	10/4/2006	0.0230 U	0.0170 U	0.0220 U	0.0260 U	0.0360 U	0.0310 U	0.0240 U	0.0360 U	0.0610 U	0.0360 U
LM-C-1	'0-0.5	10/10/2006	0.0340 U	0.0290 J	0.0320 U	0.0380 U	0.0530 U	0.0450 U	0.0350 U	0.0530 U	0.125 J	0.0530 U
LM-C-2	'0-0.5	10/10/2006	0.0260 U	0.0190 U	0.0250 U	0.0300 U	0.0410 U	0.0350 U	0.0270 U	0.0400 U	0.228	0.0410 U
LM-C-2-DUP	'0-0.5	10/10/2006	0.0300 U	0.0220 U	0.0290 U	0.0350 U	0.0480 U	0.0410 U	0.0310 U	0.0470 U	0.362	0.0480 U
LM-C-3	'0-0.5	10/10/2006	0.263	0.353	0.508	0.149 J	0.374	0.0500 U	0.0390 U	0.0580 U	1.07	0.0590 U
LM-C-4	'0-0.5	10/10/2006	0.0340 U	0.0240 U	0.0320 U	0.0380 U	0.0530 U	0.0450 U	0.0350 U	0.0530 U	0.532	0.0530 U
LM-D-1	'0-0.5	10/9/2006	0.149 J	0.131 J	0.143 J	0.101 J	0.174 J	0.0810 U	0.0630 U	0.0940 U	0.491	0.0950 U
LM-D-2	'0-0.5	10/9/2006	0.184 J	0.234 J	0.223 J	0.151 J	0.150 U	0.130 U	0.100 U	0.150 U	0.295 J	0.150 U
LM-D-3	'0-0.5	10/9/2006	1.49	1.13	1.10	0.340	1.39	0.100 U	0.0790 U	0.120 U	2.21	0.120 U
LM-D-4	'0-0.5	10/9/2006	0.317 J	0.347 J	0.423 J	0.170 J	0.365 J	0.140 U	0.110 U	0.160 U	0.958	0.160 U
LM-E-1	'0-0.5	10/9/2006	0.279 J	0.285 J	0.231 J	0.228 J	0.375	0.110 U	0.0850 U	0.130 U	0.220 U	0.130 U
LM-E-2	'0-0.5	10/9/2006	0.0800 U	0.0570 U	0.0750 U	0.0900 U	0.120 U	0.110 U	0.0820 U	0.120 U	0.364	0.120 U
LM-E-3	'0-0.5	10/5/2006	0.270 UJ	0.307 J	0.260 UJ	0.310 UJ	0.420 UJ	0.360 UJ	0.280 UJ	0.420 UJ	1.55 J	0.420 UJ
LM-E-4	'0-0.5	10/5/2006	0.240 UJ	0.170 UJ	0.230 UJ	0.270 UJ	0.370 UJ	0.320 UJ	0.250 UJ	0.370 UJ	0.630 UJ	0.370 UJ
LM-F-1	'0-0.5	10/9/2006	0.0429 J	0.0471 J	0.0190 U	0.0494 J	0.0320 U	0.0270 U	0.0210 U	0.0310 U	0.196	0.0320 U
LM-F-2	'0-0.5	10/9/2006	0.283 J	0.120 U	0.516 J	1.36	0.270 U	0.230 U	0.180 U	0.270 U	1.58	0.270 U
LM-F-3	'0-0.5	10/5/2006	0.387 J	0.442 J	0.473 J	0.316 UJ	0.325 J	0.0680 UJ	0.0530 UJ	0.0790 UJ	0.795 J	0.0800 UJ
LM-F-4	'0-0.5	10/9/2006	0.303	0.404	0.259	0.217 J	0.260	0.0810 U	0.0630 U	0.0950 U	0.160 U	0.0960 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Caprolactam	Carbazole	Chrysene	Cresols, M & P	Dibenz (a,H) Anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Fluoranthene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			340000	96	230	0_2			550000		68000	27000	24000
LM-A-1	'0-0.5	9/21/2006	0.0900 UJ	0.0380 UJ	0.113 J	0.130 UJ	0.0490 UJ	0.0440 UJ	0.0400 UJ	0.0400 UJ	0.0600 UJ	0.0800 UJ	0.273 J
LM-A-2	'0-0.5	9/21/2006	0.0840 UJ	0.0350 UJ	0.169 J	0.130 UJ	0.0460 UJ	0.0410 UJ	0.0380 UJ	0.0380 UJ	0.0560 UJ	0.498 J	0.446 J
LM-A-3	'0-0.5	9/21/2006	0.0790 UJ	0.0330 UJ	0.105 J	0.120 UJ	0.0430 UJ	0.0380 UJ	0.0350 UJ	0.0350 UJ	0.0520 UJ	0.0700 UJ	0.270 J
LM-A-4	'0-0.5	10/10/2006	0.0860 U	0.0360 U	0.251	0.130 U	0.0470 U	0.0410 U	0.0380 U	0.0380 U	0.0570 U	0.0760 U	0.499
LM-B-1	'0-0.5	10/10/2006	0.0690 U	0.0290 U	0.0664 J	0.100 U	0.0370 U	0.0330 U	0.0310 U	0.0310 U	0.0450 U	0.0610 U	0.103 J
LM-B-2	'0-0.5	10/10/2006	0.0590 U	0.0250 U	0.0599 J	0.0880 U	0.0320 U	0.0280 U	0.0260 U	0.0260 U	0.0390 U	0.0520 U	0.0917 J
LM-B-3	'0-0.5	10/4/2006	0.0420 U	0.0180 U	0.0213 J	0.0620 U	0.0230 U	0.0200 U	0.0190 U	0.0190 U	0.0280 U	0.0370 U	0.0314 J
LM-B-4	'0-0.5	10/4/2006	0.0460 U	0.0190 U	0.0216 J	0.0680 U	0.0250 U	0.0220 U	0.0200 U	0.0200 U	0.0300 U	0.0410 U	0.0386 J
LM-C-1	'0-0.5	10/10/2006	0.0680 U	0.0280 U	0.0319 J	0.100 U	0.0370 U	0.0330 U	0.0300 U	0.0300 U	0.0450 U	0.0600 U	0.0389 J
LM-C-2	'0-0.5	10/10/2006	0.0520 U	0.0220 U	0.0243 J	0.0770 U	0.0280 U	0.0250 U	0.0230 U	0.0230 U	0.0340 U	0.0460 U	0.0512 J
LM-C-2-DUP	'0-0.5	10/10/2006	0.0610 U	0.0260 U	0.0427 J	0.0900 U	0.0330 U	0.0290 U	0.0270 U	0.0270 U	0.0400 U	0.0540 U	0.0914 J
LM-C-3	'0-0.5	10/10/2006	0.0750 U	0.0310 U	0.402	0.110 U	0.0560 J	0.0360 U	0.0330 U	0.0330 U	0.0490 U	0.0660 U	0.288
LM-C-4	'0-0.5	10/10/2006	0.0680 U	0.0280 U	0.0396 J	0.100 U	0.0370 U	0.0330 U	0.0300 U	0.0300 U	0.0450 U	0.0600 U	0.0736 J
LM-D-1	'0-0.5	10/9/2006	0.120 U	0.0510 U	0.162 J	0.180 U	0.0660 U	0.0580 U	0.0540 U	0.0540 U	0.0800 U	0.110 U	0.274
LM-D-2	'0-0.5	10/9/2006	0.200 U	0.0830 U	0.218 J	0.290 U	0.110 U	0.0950 U	0.0880 U	0.0880 U	0.130 U	0.170 U	0.378 J
LM-D-3	'0-0.5	10/9/2006	0.150 U	0.0780 J	1.53	0.230 U	0.141 J	0.0813 J	0.0680 U	0.0680 U	0.100 U	0.140 U	2.96
LM-D-4	'0-0.5	10/9/2006	0.210 U	0.0860 U	0.466	0.300 U	0.110 U	0.0990 U	0.0910 U	0.0910 U	0.140 U	0.180 U	0.714
LM-E-1	'0-0.5	10/9/2006	0.160 U	0.0690 U	0.319 J	0.240 U	0.0890 U	0.0790 U	0.0730 U	0.0730 U	0.110 U	0.150 U	0.565
LM-E-2	'0-0.5	10/9/2006	0.160 U	0.0670 U	0.0784 J	0.240 U	0.0860 U	0.0770 U	0.0710 U	0.0710 U	0.100 U	0.140 U	0.139 J
LM-E-3	'0-0.5	10/5/2006	0.540 UJ	0.230 UJ	0.210 UJ	0.800 UJ	0.290 UJ	0.260 UJ	0.240 UJ	0.240 UJ	0.360 UJ	0.480 UJ	0.306 J
LM-E-4	'0-0.5	10/5/2006	0.480 UJ	0.200 UJ	0.180 UJ	0.710 UJ	0.260 UJ	0.230 UJ	0.210 UJ	0.210 UJ	0.310 UJ	0.420 UJ	0.240 J
LM-F-1	'0-0.5	10/9/2006	0.0400 U	0.0170 U	0.0650 J	0.0600 U	0.0220 U	0.0190 U	0.0180 U	0.0180 U	0.0270 U	0.0360 U	0.0946
LM-F-2	'0-0.5	10/9/2006	0.350 U	0.150 U	0.801	0.510 U	0.190 U	0.170 U	0.150 U	0.150 U	0.230 U	0.310 U	0.521 J
LM-F-3	'0-0.5	10/5/2006	0.100 UJ	0.0647 J	0.458 J	0.150 UJ	0.0958 J	0.0490 UJ	0.0450 UJ	0.0450 UJ	0.0670 UJ	0.0900 UJ	0.978 J
LM-F-4	'0-0.5	10/9/2006	0.120 U	0.0510 U	0.322	0.180 U	0.0660 U	0.0590 U	0.0540 U	0.0540 U	0.0800 U	0.110 U	0.452

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Fluorene	Hexa-chlorobenzene	Hexachloro-butadiene	Hexachloro-cyclopentadiene	Hexa-chloroethane	Indeno (1,2,3-C,d) Pyrene	Isophorone	Naphthalene	Nitrobenzene	N-Nitroso-Di-N-Propylamine
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			24000	1	25	97	140	2	2000	16	340	0_3
LM-A-1	'0-0.5	9/21/2006	0.0380 UJ	0.0540 UJ	0.0620 UJ	0.0670 UJ	0.0470 UJ	0.0600 UJ	0.0470 UJ	0.0530 UJ	0.0650 UJ	0.0600 UJ
LM-A-2	'0-0.5	9/21/2006	0.0350 UJ	0.0500 UJ	0.0580 UJ	0.0630 UJ	0.0440 UJ	0.0791 J	0.0440 UJ	0.0490 UJ	0.0610 UJ	0.0560 UJ
LM-A-3	'0-0.5	9/21/2006	0.0330 UJ	0.0470 UJ	0.0540 UJ	0.0590 UJ	0.0410 UJ	0.0520 UJ	0.0410 UJ	0.0460 UJ	0.0570 UJ	0.0530 UJ
LM-A-4	'0-0.5	10/10/2006	0.0360 U	0.0510 U	0.0590 U	0.0640 U	0.0615 J	0.0824 J	0.0440 U	0.0500 U	0.0620 U	0.0570 U
LM-B-1	'0-0.5	10/10/2006	0.0290 U	0.0471 J	0.0470 U	0.0510 U	0.0360 U	0.0450 U	0.0350 U	0.0400 U	0.0500 U	0.0460 U
LM-B-2	'0-0.5	10/10/2006	0.0250 U	0.175	0.0400 U	0.0440 U	0.0310 U	0.0390 U	0.0300 U	0.0340 U	0.0430 U	0.0390 U
LM-B-3	'0-0.5	10/4/2006	0.0170 U	0.0250 U	0.0290 U	0.0310 U	0.0220 U	0.0280 U	0.0220 U	0.0240 U	0.0300 U	0.0280 U
LM-B-4	'0-0.5	10/4/2006	0.0190 U	0.0270 U	0.0310 U	0.0340 U	0.0240 U	0.0300 U	0.0240 U	0.0270 U	0.0330 U	0.0300 U
LM-C-1	'0-0.5	10/10/2006	0.0280 U	0.0400 U	0.0460 U	0.0500 U	0.0714 J	0.0450 U	0.0350 U	0.0400 U	0.0490 U	0.0450 U
LM-C-2	'0-0.5	10/10/2006	0.0220 U	0.0310 U	0.0360 U	0.0390 U	0.0610 J	0.0340 U	0.0270 U	0.0300 U	0.0380 U	0.0350 U
LM-C-2-DUP	'0-0.5	10/10/2006	0.0250 U	0.0360 U	0.0420 U	0.0450 U	0.0856 J	0.0400 U	0.0310 U	0.0360 U	0.0440 U	0.0410 U
LM-C-3	'0-0.5	10/10/2006	0.0310 U	0.0450 U	0.0510 U	0.0560 U	0.0390 U	0.174	0.0380 U	0.0440 U	0.0540 U	0.0500 U
LM-C-4	'0-0.5	10/10/2006	0.0280 U	0.0400 U	0.0460 U	0.0500 U	0.0350 U	0.0450 U	0.0350 U	0.0400 U	0.0490 U	0.0450 U
LM-D-1	'0-0.5	10/9/2006	0.0500 U	0.0720 U	0.0830 U	0.0900 U	0.0630 U	0.0800 U	0.0620 U	0.0710 U	0.0880 U	0.0810 U
LM-D-2	'0-0.5	10/9/2006	0.0820 U	0.120 U	0.130 U	0.150 U	0.100 U	0.130 U	0.100 U	0.120 U	0.140 U	0.130 U
LM-D-3	'0-0.5	10/9/2006	0.299 J	0.0920 U	0.100 U	0.110 U	0.0800 U	0.376	0.0790 U	0.0900 U	0.110 U	0.100 U
LM-D-4	'0-0.5	10/9/2006	0.0850 U	0.120 U	0.140 U	0.150 U	0.110 U	0.146 J	0.110 U	0.120 U	0.150 U	0.140 U
LM-E-1	'0-0.5	10/9/2006	0.0680 U	0.0980 U	0.110 U	0.120 U	0.0850 U	0.203 J	0.0840 U	0.0960 U	0.120 U	0.110 U
LM-E-2	'0-0.5	10/9/2006	0.0660 U	0.0950 U	0.110 U	0.120 U	0.0820 U	0.100 U	0.0820 U	0.0930 U	0.110 U	0.110 U
LM-E-3	'0-0.5	10/5/2006	0.230 UJ	0.320 UJ	0.370 UJ	0.400 U	0.280 UJ	0.360 UJ	0.280 UJ	0.320 UJ	0.390 UJ	0.360 UJ
LM-E-4	'0-0.5	10/5/2006	0.200 UJ	0.280 UJ	0.330 UJ	0.350 U	0.250 UJ	0.310 UJ	0.250 UJ	0.280 UJ	0.340 UJ	0.320 UJ
LM-F-1	'0-0.5	10/9/2006	0.0170 U	0.0240 U	0.0280 U	0.0300 U	0.0210 U	0.0342 J	0.0210 U	0.0240 U	0.0290 U	0.0270 U
LM-F-2	'0-0.5	10/9/2006	0.140 U	0.210 U	0.240 U	0.260 U	0.180 U	0.230 U	0.180 U	0.200 U	0.250 U	0.230 U
LM-F-3	'0-0.5	10/5/2006	0.0573 J	0.0610 UJ	0.0700 UJ	0.0760 U	0.0530 UJ	0.245 J	0.0520 UJ	0.0600 UJ	0.0740 UJ	0.0680 UJ
LM-F-4	'0-0.5	10/9/2006	0.0510 U	0.0730 U	0.0830 U	0.0910 U	0.0630 U	0.187 J	0.0630 U	0.0710 U	0.0880 U	0.0810 U

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitro-sodiphenylamine	Penta-chlorophenol	Phenanthrene	Phenol	Pyrene	Sulfur, Mol_ (s8)	Total Inorganic Carbon
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SRS			390	10	300000	210000	18000		
LM-A-1	'0-0.5	9/21/2006	0.0390 UJ	0.110 UJ	0.0742 J	0.120 UJ	0.247 J	4.80 JN	
LM-A-2	'0-0.5	9/21/2006	0.0360 UJ	0.0980 UJ	0.0899 J	0.110 UJ	0.437 J	10.0 JN	
LM-A-3	'0-0.5	9/21/2006	0.0340 UJ	0.0920 UJ	0.0360 UJ	0.100 UJ	0.251 J	2.70 JN	
LM-A-4	'0-0.5	10/10/2006	0.0370 U	0.100 U	0.0894 J	0.110 U	0.319	5.90 J	
LM-B-1	'0-0.5	10/10/2006	0.0290 U	0.0800 U	0.0318 J	0.0880 U	0.0829 J		
LM-B-2	'0-0.5	10/10/2006	0.0250 U	0.0690 U	0.0365 J	0.0760 U	0.0763 J		
LM-B-3	'0-0.5	10/4/2006	0.0180 U	0.0490 U	0.0190 U	0.0540 U	0.0315 J		
LM-B-4	'0-0.5	10/4/2006	0.0200 U	0.0530 U	0.0210 U	0.0590 U	0.0353 J		
LM-C-1	'0-0.5	10/10/2006	0.0290 U	0.0790 U	0.0310 U	0.0870 U	0.0367 J	4.20 J	
LM-C-2	'0-0.5	10/10/2006	0.0220 U	0.0600 U	0.0240 U	0.0670 U	0.0402 J	2.30 J	
LM-C-2-DUP	'0-0.5	10/10/2006	0.0260 U	0.0710 U	0.0280 U	0.0780 U	0.0690 J	3.30 J	
LM-C-3	'0-0.5	10/10/2006	0.0320 U	0.0870 U	0.0518 J	0.0960 U	0.290		
LM-C-4	'0-0.5	10/10/2006	0.0290 U	0.0790 U	0.0310 U	0.0870 U	0.0619 J	2.70 J	
LM-D-1	'0-0.5	10/9/2006	0.0520 U	0.140 U	0.0892 J	0.160 U	0.250	1.20 J	
LM-D-2	'0-0.5	10/9/2006	0.0840 U	0.230 U	0.130 J	0.250 U	0.329 J	1.30 J	
LM-D-3	'0-0.5	10/9/2006	0.0660 U	0.180 U	2.19	0.200 U	2.83	0.760 J	
LM-D-4	'0-0.5	10/9/2006	0.0880 U	0.240 U	0.462	0.260 U	0.781		
LM-E-1	'0-0.5	10/9/2006	0.0700 U	0.190 U	0.246 J	0.210 U	0.545	1.40 J	
LM-E-2	'0-0.5	10/9/2006	0.0680 U	0.180 U	0.0720 U	0.200 U	0.120 J	2.00 J	
LM-E-3	'0-0.5	10/5/2006	0.230 UJ	0.630 UJ	0.250 UJ	0.700 UJ	0.288 J	5.20 J	
LM-E-4	'0-0.5	10/5/2006	0.200 UJ	0.550 UJ	0.220 UJ	0.610 UJ	0.176 J		2.00 J
LM-F-1	'0-0.5	10/9/2006	0.0170 U	0.0470 U	0.0312 J	0.0520 U	0.0791 J	1.40 J	
LM-F-2	'0-0.5	10/9/2006	0.150 U	0.400 U	0.188 J	0.450 U	0.540 J	7.50 J	
LM-F-3	'0-0.5	10/5/2006	0.0440 UJ	0.120 UJ	0.513 J	0.130 UJ	0.767 J	6.20 J	
LM-F-4	'0-0.5	10/9/2006	0.0520 U	0.140 U	0.164 J	0.160 U	0.507		

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8260B	Alkane (RT=14.22)	N		0.460 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8260B	Alkane (RT=13.72)	N		0.700 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=20.23) TIC	N		0.470 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=15.55) TIC	N		1.40 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=15.64) TIC	N		1.50 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Dioctylphenol (RT=18.68) TIC	N		0.870 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.69) TIC	N		3.60 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.35) TIC	N		3.90 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.6) TIC	N		2.70 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.5) TIC	N		2.70 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=15.75) TIC	N		1.40 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=15.4) TIC	N		2.30 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Phenol Tetramethyl Butyl (RT=15.18) TIC	N		3.40 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.08) TIC	N		1.90 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.79) TIC	N		2.10 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	System Artifact (RT=3.02) TIC	N		0.410 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	System Artifact (RT=3.16) TIC	N		0.450 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=15.04) TIC	N		0.510 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		150. J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Phenol Tetramethyl Butyl (RT=14.69) TIC	N		1.00 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Phenol Tetramethyl Butyl (RT=14.05) TIC	N		1.30 J
LM-A-1	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.28) TIC	N		5.10 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=20.02) TIC	N		0.870 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=20.26) TIC	N		1.00 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=20.37) TIC	N		1.60 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=20.3) TIC	N		1.50 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Dioctylphenol (RT=18.68) TIC	N		2.30 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=20.76) TIC	N		2.10 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=21.07) TIC	N		0.740 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=21.15) TIC	N		1.10 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=21.47) TIC	N		2.20 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=21.92) TIC	N		11.0 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=23.64) TIC	N		1.20 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=23.27) TIC	N		0.800 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=23.51) TIC	N		3.20 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=23.56) TIC	N		1.70 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=23.7) TIC	N		0.900 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=26.55) TIC	N		1.20 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=26.82) TIC	N		0.900 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=27.13) TIC	N		1.10 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		180. J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=21.55) TIC	N		6.30 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Phenol Tetramethyl Butyl (RT=14.05) TIC	N		0.890 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=26.43) TIC	N		3.30 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.27) TIC	N		0.930 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=15.04) TIC	N		1.10 J
LM-A-2	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.51) TIC	N		0.960 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=15.04) TIC	N		0.730 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Phenol Tetramethyl Butyl (RT=15.35) TIC	N		5.10 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=23.52) TIC	N		1.20 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.28) TIC	N		6.60 J

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=26.43) TIC	N		0.830 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Phenol Tetramethyl Butyl (RT=15.18) TIC	N		4.20 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=23.11) TIC	N		0.720 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=27.13) TIC	N		0.570 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=26.56) TIC	N		1.30 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Phenol Tetramethyl Butyl (RT=14.69) TIC	N		1.30 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Phenol Tetramethyl Butyl (RT=14.05) TIC	N		1.50 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		130. J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.79) TIC	N		2.70 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.09) TIC	N		2.40 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.69) TIC	N		4.70 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Dioctylphenol (RT=18.68) TIC	N		0.560 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=15.75) TIC	N		1.60 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.6) TIC	N		3.30 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=15.64) TIC	N		2.00 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=15.55) TIC	N		1.80 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.51) TIC	N		3.60 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Nonyl Phenol (RT=15.4) TIC	N		2.80 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown (RT=22.51) TIC	N		0.730 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Alkene (TIC) RT=22.71	N		0.610 J
LM-A-3	ACTD	'0-0.5	9/21/2006	SO	SW8270C	Unknown Phthalate (RT=22.94) TIC	N		0.750 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		320. J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.5)	N		0.600 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown Acid (RT=17.44)	N		1.10 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=15.31)	N		0.600 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.11)	N		0.790 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.22)	N		0.870 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=14.98)	N		1.50 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=19.79)	N		0.410 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=24.53)	N		0.570 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=13.77)	N		0.700 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=14.8)	N		0.570 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=25.64)	N		0.390 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.06)	N		0.980 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.410 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.13)	N		0.450 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.64)	N		0.680 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=14.74)	N		1.10 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.28)	N		1.00 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=16.23)	N		0.400 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=23.44)	N		0.570 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=25.2)	N		0.500 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Nonyl Phenol (RT=15.4) TIC	N		0.870 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=25.01)	N		0.410 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl (RT=14.9)	N		0.910 J
LM-A-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	9-Hexadecenoic Acid (RT=17.26)	N		0.500 JN
LM-B-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown Acid (RT=17.42)	N		0.330 J
LM-B-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=25.99)	N		0.610 J
LM-B-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl) (RT=13.77)	N		0.490 J
LM-B-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		240. J
LM-B-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=24.53)	N		0.380 J

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=10.91)	N		0.810 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl) (RT=15.41)	N		0.660 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl) (RT=13.77)	N		2.50 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=14.81)	N		0.470 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=14.99)	N		1.40 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=16.02)	N		0.530 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=15.22)	N		0.780 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown Acid (RT=17.43)	N		0.630 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=24.54)	N		0.720 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl (RT=14.9)	N		1.00 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=24.18)	N		0.480 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26)	N		3.30 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		0.490 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, 2,4-Bis(1,1-Dimethylpropyl (RT=1	N		0.450 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=19.65)	N		0.610 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=18.4)	N		1.30 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=17.69)	N		0.590 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.31)	N		0.670 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=19.28)	N		0.770 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.5)	N		0.470 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=20.07)	N		2.00 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=19.79)	N		0.660 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=19.86)	N		0.860 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=16.63)	N		0.490 J
LM-B-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=19.99)	N		0.480 J
LM-B-3	ACTD	'0-0.5	10/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		50.0 J
LM-B-3	ACTD	'0-0.5	10/4/2006	SO	SW8270C	System Artifact (RT=4.3)	N		0.220 J
LM-B-3	ACTD	'0-0.5	10/4/2006	SO	SW8270C	Alkane (RT=27.11)	N		0.180 J
LM-B-3	ACTD	'0-0.5	10/4/2006	SO	SW8270C	Alkane (RT=26.1)	N		0.230 J
LM-B-3	ACTD	'0-0.5	10/4/2006	SO	SW8270C	System Artifact (RT=11.93)	N		0.200 J
LM-B-3	ACTD	'0-0.5	10/4/2006	SO	SW8270C	Alkane (RT=25.64)	N		0.220 J
LM-B-3	ACTD	'0-0.5	10/4/2006	SO	SW8270C	Alkane (RT=25.17)	N		0.260 J
LM-B-3	ACTD	'0-0.5	10/4/2006	SO	SW8270C	Alkane (RT=24.16)	N		0.190 J
LM-B-3	ACTD	'0-0.5	10/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.180 J
LM-B-4	ACTD	'0-0.5	10/4/2006	SO	SW8270C	System Artifact (RT=4.32)	N		0.220 J
LM-B-4	ACTD	'0-0.5	10/4/2006	SO	SW8270C	Unknown (RT=19.45)	N		0.670 J
LM-B-4	ACTD	'0-0.5	10/4/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		47.0 J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=17.25)	N		0.330 J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown Acid (RT=17.43)	N		0.790 J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=24.52)	N		0.360 J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=25.19)	N		0.370 J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		270. J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		0.290 J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=14.8)	N		0.340 J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.63)	N		1.10 J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.340 J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.13)	N		0.630 J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.34)	N		0.350 J
LM-C-1	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=15.91)	N		0.410 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=11.96)	N		0.250 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=15.81)	N		0.240 J

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.13)	N		0.300 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=13.76)	N		0.470 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Chloro--(-Dimethylethyl)-, Aceta	N		0.590 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=15.91)	N		0.760 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.63)	N		0.810 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=25.01)	N		0.340 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		180. J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.86)	N		0.280 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=24.53)	N		0.430 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown Acid (RT=17.43)	N		0.290 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.26)	N		0.240 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=14.99)	N		1.10 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.31)	N		0.870 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.5)	N		0.470 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.11)	N		0.440 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.33)	N		0.340 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=14.89)	N		0.810 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.06)	N		0.780 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=14.74)	N		0.280 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=19.73)	N		0.220 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Trimethylpentyl)- (RT=14.4)	N		0.240 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=14.81)	N		1.10 J
LM-C-2	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=15.22)	N		0.470 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown Acid (RT=17.43)	FD	LM-C-2	0.390 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.11)	FD	LM-C-2	1.10 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	FD	LM-C-2	230. J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.26)	FD	LM-C-2	0.630 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.33)	FD	LM-C-2	0.590 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.12)	FD	LM-C-2	0.740 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=16.37)	FD	LM-C-2	0.530 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.86)	FD	LM-C-2	0.600 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.31)	FD	LM-C-2	2.20 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=15.91)	FD	LM-C-2	0.940 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.07)	FD	LM-C-2	2.00 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=24.53)	FD	LM-C-2	0.530 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=25.01)	FD	LM-C-2	0.440 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=15.81)	FD	LM-C-2	0.360 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.46)	FD	LM-C-2	0.600 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Nonyl Phenol (RT=15.5) TIC	FD	LM-C-2	1.20 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.63)	FD	LM-C-2	1.50 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=13.76)	FD	LM-C-2	0.500 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=15.22)	FD	LM-C-2	1.10 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=14.4)	FD	LM-C-2	0.390 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=14.74)	FD	LM-C-2	0.390 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=14.81)	FD	LM-C-2	2.00 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=14.99)	FD	LM-C-2	2.80 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=14.89)	FD	LM-C-2	2.10 J
LM-C-2-DUP	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=15.4)	FD	LM-C-2	1.50 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=12.68)	N		0.550 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.69)	N		0.650 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown PAH Substance (RT=23.55)	N		0.420 J

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Benzene, Dichloro (RT=5.67)	N		0.970 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=14.99)	N		1.20 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=13.76)	N		0.990 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.26)	N		2.20 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=17.26)	N		0.480 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown Acid (RT=17.44)	N		0.720 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26)	N		0.990 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=15.31)	N		0.410 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.06)	N		0.520 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=23.44)	N		0.910 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=15.21)	N		0.630 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=14.8)	N		0.690 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=14.89)	N		0.840 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		150. J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=25.2)	N		1.20 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenanthrene, -Dimethyl- (RT=25.64)	N		1.30 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.11)	N		0.630 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Chloro--Dimethylethy (RT=15.4)	N		0.630 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=25.02)	N		0.920 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Sulfur (RT=18.46)	N		8.40 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.64)	N		1.90 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=24.53)	N		1.00 J
LM-C-3	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.13)	N		1.20 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=14.89)	N		0.380 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown Acid (RT=17.43)	N		0.640 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Cyclopropa[5,6]stigmast-22-En-3-On (RT=2	N		1.10 JN
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=14.98)	N		0.590 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=25.01)	N		0.500 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=15.07)	N		0.320 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=18.39)	N		1.80 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.28)	N		0.690 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=19.73)	N		0.310 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26)	N		0.430 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=21.05)	N		0.300 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=26.63)	N		1.30 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=14.81)	N		0.910 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=20.66)	N		0.360 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=11.96)	N		0.340 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=15.91)	N		0.770 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=24.53)	N		0.600 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=21.08)	N		0.380 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=15.31)	N		0.290 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, Nonyl- (RT=15.22)	N		0.480 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Unknown (RT=20.51)	N		1.70 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Alkane (RT=20.16)	N		0.380 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=13.76)	N		0.420 J
LM-C-4	ACTD	'0-0.5	10/10/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		250. J
LM-D-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		420. J
LM-D-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.14)	N		1.50 J
LM-D-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.3)	N		0.610 J
LM-D-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.64)	N		2.40 J

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)
LM-D-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.53)	N		0.520 J
LM-D-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=24.54)	N		0.600 J
LM-D-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.01)	N		0.830 J
LM-D-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=25.2)	N		0.580 J
LM-D-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.54)	N		1.10 J
LM-D-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=24.54)	N		1.00 J
LM-D-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.65)	N		2.00 J
LM-D-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.14)	N		3.00 J
LM-D-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		640. J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact (RT=11.89)	N		1.10 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown PAH Substance (RT=20.72)	N		0.980 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown PAH Substance (RT=22.83)	N		1.80 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=21.67)	N		1.10 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Naphthalene, -Phenyl- (RT=21.21)	N		0.730 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=20.87)	N		1.00 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.880 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact (RT=4.27)	N		1.60 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown PAH Substance (RT=23.91)	N		0.780 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		230. J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=27.82)	N		1.50 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=19.53)	N		0.740 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=27.3)	N		1.10 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Phenol, Nonyl- (RT=19.12)	N		0.930 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=19.05)	N		0.680 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=18.92)	N		2.60 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=18.11)	N		0.910 J
LM-D-3	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown PAH Substance (RT=26.24)	N		1.20 J
LM-D-4	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		1.00 J
LM-D-4	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact (RT=4.25)	N		2.40 J
LM-D-4	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=27.29)	N		1.60 J
LM-D-4	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		280. J
LM-D-4	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=27.82)	N		2.10 J
LM-D-4	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact (RT=11.89)	N		1.30 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=25.76)	N		5.90 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=14.99)	N		0.990 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=25.02)	N		0.700 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.01)	N		1.70 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.33)	N		2.80 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.14)	N		0.890 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=15.06)	N		0.740 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=27)	N		0.730 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.55) TIC	N		0.930 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=24.54)	N		1.00 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Phenol, -(-Tetramethylbutyl) (RT=13.77)	N		0.990 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=22.15)	N		0.810 J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		460. J
LM-E-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=21)	N		1.10 J
LM-E-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.14)	N		2.80 J
LM-E-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=25.78)	N		4.50 J
LM-E-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.65)	N		1.30 J
LM-E-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.54)	N		1.30 J

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)
LM-E-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=23.22)	N		1.90 J
LM-E-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		530. J
LM-E-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.01)	N		0.960 J
LM-E-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=25.15)	N		3.20 J
LM-E-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		370. J
LM-E-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=26.87)	N		4.50 J
LM-E-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=25.35)	N		3.40 J
LM-E-4	ACTD	'0-0.5	10/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		560. J
LM-E-4	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=26.87)	N		2.60 J
LM-E-4	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=24.65)	N		3.20 J
LM-E-4	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=25.16)	N		2.90 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.64)	N		0.430 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown Acid (RT=3.06)	N		0.170 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=25.74)	N		0.170 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.28)	N		1.30 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown Acid (RT=3.92)	N		0.170 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown Phthalate (RT=16.57)	N		0.430 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=25.21)	N		0.330 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=25.02)	N		0.360 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=25.65)	N		0.450 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		140. J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown Acid (RT=17.44)	N		0.420 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=24.54)	N		0.340 J
LM-F-1	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=24.19)	N		0.240 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=20.14)	N		2.60 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.66)	N		6.70 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=23.33)	N		1.80 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=23.46)	N		4.30 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown PAH Substance (RT=23.56)	N		3.60 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=24.1)	N		2.50 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=23.27)	N		3.80 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		220. J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=22.97)	N		4.10 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=26.02)	N		2.40 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=24.55)	N		5.00 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=25.03)	N		5.60 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=25.21)	N		2.00 J
LM-F-2	ACTD	'0-0.5	10/9/2006	SO	SW8270C	Unknown (RT=24.44)	N		2.40 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Alkane (RT=19.39)	N		0.460 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=14.8)	N		0.770 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=20.76)	N		0.630 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=22.95)	N		0.430 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=23.06)	N		0.450 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		430. J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.560 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=23.35)	N		0.560 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=23.55)	N		0.650 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=25.36)	N		1.40 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown PAH Substance (RT=23.64)	N		0.680 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=25.81)	N		1.30 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=24.65)	N		0.700 J

APPENDIX J-3
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=25.15)	N		1.30 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=26.87)	N		1.30 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Unknown (RT=17.32)	N		0.940 J
LM-F-3	ACTD	'0-0.5	10/5/2006	SO	SW8270C	Hexadecanoic Acid (RT=17.51)	N		1.50 J
LM-F-4	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		180. J
LM-F-4	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.650 J
LM-F-4	ACTD	'0-0.5	10/9/2006	SO	SW8270C	System Artifact (RT=4.27)	N		0.560 J

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DUP 011217	12/17/01	200. U	5.00 U	80.7	248.	5.00 U	4.00 U	59,700		10.0 U	50.0 U	25.0 U	7,540	3.00 U	23,400	1,190
DUP020107	02/01/07	200. U	60.0 U	8.00	200. U	10.0 U	4.00 U	749,000	12.0 J	10.0 U	50.0 U	25.0 U	11,800	3.00 U	59,700	187.
DUP020707	02/07/07	264.	6.00 U	8.00 U	200. U	1.00 U	4.00 U	5,000 U	10.0 UJ	19.6	50.0 U	25.0 U	766.	4.70 J	6,920	27.4
LCP-PW112706	11/27/06	446.	9.00	75.9	200. U	1.00 U	4.00 U	8,610		37.8	50.0 U	42.0	437.	3.80	5,000 U	15.0 U
MW-10	12/18/01	235.	5.00 U	27.9	922.	5.00 U	4.00 U	801,000		10.0 U	50.0 U	25.0 U	36,900	3.40	64,300	1,500
MW-10S	02/02/07	200. U	6.00 U	54.8 J	200. U	5.00 U	4.00 U	805,000	10.0 U	10.0 U	50.0 U	25.0 U	31,200	3.00 U	57,500	1,040
MW-11	12/18/01	205.	5.00 U	5.00 U	1,240	5.00 U	4.00 U	37,900		10.0 U	50.0 U	25.0 U	18,300	3.80	11,200	715.
MW-11D	01/30/07	503.	8.50 J	27.7 J	202.	1.00 U	4.00 U	2,130,000 J	10.0 UJ	10.0 U	50.0 U	25.0 U	21,600 J	11.8 J	528,000 J	6,280 J
MW-11S	01/30/07	200. U	6.00 U	8.00 UJ	1,130	1.00 U	4.00 U	21,500	10.0 UJ	10.0 U	50.0 U	25.0 U	9,920 J	3.00 U	5,000 U	426.
MW-12	12/19/01	419.	8.30	591.	304.	5.00 U	4.00 U	792,000		66.0	50.0 U	37.4	1,980	6.00	114,000	138.
MW-12S	02/06/07	202.	6.00 U	192. J	884.	10.0 U	4.00 U	446,000	10.0 U	52.4	50.0 U	25.0 U	1,000	30.0 U	92,800	130. J
MW-12SF	02/06/07	200. U	60.0 U	588. J	852.	10.0 U	4.00 U	443,000	10.0 U	51.9	50.0 U	25.0 U	846.	30.0 U	95,100	162. J
MW-13	12/18/01	200. U	5.00 U	71.7	200. U	5.00 U	4.00 U	316,000		10.0 U	50.0 U	25.0 U	36,100	3.00 U	11,500	1,050
MW-13S	02/12/07	200. U	6.00 U	37.2	200. U	1.00 U	4.00 U	439,000	10.0 UJ	10.0 U	50.0 U	25.0 U	9,230	3.00 U	12,500	647.
MW-14	12/18/01	7,960	5.00 U	168.	200. U	5.00 U	4.00 U	11,400		12.6	50.0 U	46.8	8,850	20.8	6,670	1,120
MW14D	01/17/07	1,420	18.0 U	8.00 U	200. U	1.00 U	4.00 U	1,310,000 J	10.0 U	10.0 U	50.0 U	25.0 U	19,000 J	20.2	482,000	2,080
MW14D-Filtered	01/17/07	200. U	18.0 U	8.00 U	200. U	1.00 U	4.00 U	1,470,000 J	10.0 U	10.0 U	50.0 U	25.0 U	17,400 J	16.5	508,000	2,150
MW14S	01/18/07	2,360	6.00 U	97.5	200. U	1.00 U	4.00 U	5,550	10.0 UJ	10.0 U	50.0 U	25.0 U	3,260	3.10	5,000 U	578. J
MW14S-Filtered	01/18/07	200. U	6.00 U	100.	200. U	1.00 U	4.00 U	5,950	10.0 UJ	10.0 U	50.0 U	25.0 U	2,120	3.00 U	5,000 U	622. J
MW-15	12/18/01	9,720	5.00 U	91.1	656.	5.00 U	4.00 U	461,000		92.2	266.	80.7	121,000	61.9	362,000	153,000
MW-15S	39121.583	200. U	60.0 UJ	80.0 U	319. J	10.0 UJ	12.9	565,000		100. U	190.	25.0 U	346,000	30.0 U	320,000	219,000
MW-15S	39122.514	200. U	60.0 UJ	80.0 UJ	390. J	10.0 U	10.5	553,000	10.0 U	100. U	191.	25.0 U	289,000	30.0 U	333,000	201,000
MW-16	37244.733	1,220	5.00 U	46.5	200. U	5.00 U	4.00 U	26,000		193.	50.0 U	25.0 U	1,200	3.60	10,900	26.8
MW16D	39097.479	1,370	30.0 U	9.10	211.	5.00 U	4.00 U	2,710,000 J	10.0 UJ	10.0 U	50.0 U	42.7 J	33,300 J	38.5 J	630,000	6,320 J
MW16S	39100.622	200. U	6.00 U	12.0	200. U	1.00 U	4.00 U	23,300	10.0 UJ	23.0	50.0 U	25.0 U	103.	3.00 U	10,400	15.0 U
MW16S-Filtered	39100.622	200. U	6.00 U	11.7	200. U	1.00 U	4.00 U	22,700	10.0 UJ	21.5	50.0 U	25.0 U	100. U	3.00 U	10,100	15.0 U
MW-17	37242.514	604.	18.0	430.	441.	5.00 U	4.00 U	183,000		15.0	50.0 U	25.0 U	53,300	9.10	54,900	1,240
MW17D	39091.583	700.	6.00 U	8.00 U	244.	1.00 U	4.00 UJ	565,000 J	10.0 UJ	10.0 U	50.0 U	34.0	3,080 J	3.00 UJ	413,000 J	356. J
MW17S	39092.49	200. U	6.00 U	77.8	200. U	1.00 U	4.00 UJ	116,000	10.0 U	10.0 U	50.0 U	25.0 U	3,730 J	3.00 U	24,400	428.
MW-18	37244.684	552.	5.00 U	436.	831.	5.00 U	4.00 U	270,000		200.	50.0 U	125.	17,800	42.4	208,000	5,630
MW18D	39094.517	493.	6.00 U	8.00 U	284.	1.00 U	4.00 U	879,000	10.0 U	10.3	50.0 U	37.9 J	555. J	10.6	291,000	100. J
MW-18S	39125.611	400. UJ	12.0 UJ	275. J	744. J	2.00 UJ	8.00 UJ	271,000 J	10.0 UJ	233. J	100. UJ	50.0 UJ	7,550 J	8.20 J	185,000 J	4,560 J
MW-19	37244.618	3,520	5.00 U	16.0	216.	5.00 U	4.00 U	15,600		105.	50.0 U	65.3	4,840	20.6	34,400	122.
MW-19S	39120.594	251.	6.00 U	8.00 U	200. U	1.00 U	4.00 U	5,000 U	10.0 UJ	18.0	50.0 U	25.0 U	730.	3.00 UJ	7,150	27.8
MW-20	37242.457	200. U	5.00 U	86.4	256.	5.00 U	4.00 U	63,400		10.0 U	50.0 U	25.0 U	8,160	3.00 U	23,900	1,240

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
MW20D	39098.438	806.	18.0 U	8.00 U	200. U	1.00 U	4.00 U	1,510,000 J	10.0 UJ	10.0 U	50.0 U	40.1 J	20,100 J	12.5 J	387,000	1,980
MW20S	39098.604	200. U	6.00 U	92.2	200. U	1.00 U	4.00 U	37,100	10.0 U	10.0 U	50.0 U	25.0 U	2,200 J	3.00 U	8,910	556.
MW-21D	39101.5	749.	12.0 UJ	16.0 U	200. U	1.00 U	4.00 U	1,510,000 J	10.0 U	10.0 U	50.0 U	25.0 U	10,800 J	15.6	491,000	4,020 J
MW-21D-F	39101.552	200. U	12.0 UJ	16.0 U	200. U	1.00 U	4.00 U	1,740,000 J	10.0 U	10.0 U	50.0 U	25.0 U	12,200 J	14.7	526,000	4,250 J
MW-21S	39101.649	329.	6.00 UJ	42.3	14,200	1.00 U	4.00 U	61,100	10.0 UJ	25.7	50.0 U	25.0 U	189,000 J	3.40 J	57,600	1,120 J
MW-21S-F	39101.672	200. U	6.00 UJ	43.5	15,300	1.00 U	4.00 U	59,600	10.0 UJ	12.7	50.0 U	25.0 U	210,000 J	4.50 J	57,400	1,080 J
MW-22S	39122.434	200. U	6.00 UJ	15.8 J	200. U	1.00 U	4.00 U	64,900	10.0 U	10.0 U	50.0 U	25.0 U	124.	3.00 U	12,400	86.1 U
MW-23D	39111.51	222.	9.20 J	17.9	200. U	1.00 U	4.00 U	1,590,000	10.0 U	10.0 U	50.0 U	25.0 U	14,500 J	6.20	641,000	2,250
MW-23S	39102.617	1,830	6.00 UJ	24.7	200. U	1.00 U	4.00 U	28,400	10.0 U	11.1	50.0 U	40.3	4,580	9.70	10,200	4,220
MW-23S-F	39102.679	200. U	6.00 UJ	21.1	200. U	1.00 U	4.00 U	28,000	10.0 U	10.0 U	50.0 U	25.0 U	3,260	3.00 U	9,800	4,460
MW-24S	39121.438	218.	6.00 UJ	15.0	200. U	1.00 UJ	4.00 U	128,000	10.0 U	10.0 U	50.0 U	25.0 U	100. U	3.00 U	9,100 J	53.5
MW25D	39105.514	539.	6.00 U	8.00 U	200. U	1.00 U	4.00 U	1,310,000	50.0 UJ	10.0 U	50.0 U	25.0 U	4,780	3.40 J	384,000	3,810
MW25D-FILTERED	39105.514	200. U	12.0 U	8.70	200. U	1.00 U	4.00 U	1,340,000	50.0 UJ	10.0 U	50.0 U	25.0 U	3,490	6.00 U	388,000	3,820
MW-26S	39125.653	485.	6.00 U	251.	200. U	1.00 U	4.00 U	46,000		10.0 U	50.0 U	25.0 U	7,530	3.00 U	17,700	1,400
MW-26S	39126.326	200. U	6.00 U	204.	200. U	1.00 U	4.00 U	44,500		10.0 U	50.0 U	25.0 U	4,020	3.00 U	18,900	1,330
MW-6	37244.392	200. U	5.00 U	6.40	200. U	5.00 U	4.00 U	391,000		10.0 U	50.0 U	25.0 U	6,130	3.00 U	184,000	4,880
MW-6D	39113.556	1,060	12.0 U	16.0 U	200. U	10.0 U	8.00 U	1,560,000 J	10.0 U	10.0 U	50.0 U	30.4	12,800	6.00 U	569,000	2,220
MW6S	39104.465	200. U	6.00 U	8.00 U	200. U	1.00 U	4.00 U	204,000	10.0 UJ	10.0 U	50.0 U	25.0 U	3,980	3.00 U	33,600	2,150
MW6S-FILTERED	39104.465	200. U	6.00 U	8.00 U	200. U	1.00 U	4.00 U	211,000	10.0 UJ	10.0 U	50.0 U	25.0 U	4,160	3.00 U	35,300	2,270
MW-7	37244.479	200. U	5.00 U	5.00 U	200. U	5.00 U	88.4	652,000		10.0 U	50.0 U	25.0 U	9,730	3.00 U	607,000	167.
MW-7S	39114.563	200. U	60.0 U	8.00 U	200. U	10.0 U	4.00 U	718,000	10.0 UJ	10.0 U	50.0 U	25.0 U	11,200	3.00 U	57,800	179.
MW-8	37242.628	537.	10.0 U	10.0 U	400. U	10.0 U	8.00 U	1,250,000		20.0 U	100. U	50.0 U	9,190	6.00 U	87,500	1,130
MW-8S	39115.479	2,000 U	60.0 U	80.0 U	2,000 U	10.0 U	40.0 U	1,810,000	10.0 UJ	100. U	500. U	250. U	7,550	30.0 U	105,000	1,200 J
MW-9	37242.698	200. U	5.00 U	229.	504.	5.00 U	6.90	437,000		10.0 U	50.0 U	25.0 U	19,800	67.8	24,000	434.
MW-9S	39120.458	200. U	6.00 U	67.3	200. U	1.00 U	5.90	566,000	10.0 U	10.0 U	50.0 U	25.0 U	10,900	3.00 UJ	36,300	310.
TPS-1	39066.469	2,910	6.00 U	18.0	3,880	1.00 U	12.9	70,500		57.8	50.0 U	507.	110,000	5,070	46,600	1,440

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Mercury	Methyl Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DUP 011217	12/17/01	0.200 U		40.0 U	11,100	5.00 U	10.0 U	122,000	20.0 U	50.0 U	20.0 U
DUP020107	02/01/07	0.200 U		40.0 U	77,500 J	100. U	10.0 U	5,360,000 J	10.0 U	50.0 U	126.
DUP020707	02/07/07	1.10		40.0 U	16,400	10.0 U	10.0 U	560,000	10.0 U	50.0 U	20.0 U
LCP-PW112706	11/27/06	0.980		40.0 U	36,300	10.0 U	10.0 U	402,000	10.0 U	55.0	20.0 U
MW-10	12/18/01	0.920		40.0 U	39,400	5.00 U	10.0 U	2,370,000	10.0 U	50.0 U	467.
MW-10S	02/02/07	0.290	0.635	40.0 U	28,700 J	10.0 U	10.0 U	1,540,000 J	10.0 U	50.0 U	396.
MW-11	12/18/01	68.3		40.0 U	24,400	5.00 U	10.0 U	88,100	10.0 U	50.0 U	20.0 U
MW-11D	01/30/07	0.200 U	0.0192 U	40.0 U	31,500 J	46.1 J	10.0 U	748,000 J	20.0 U	50.0 U	20.0 U
MW-11S	01/30/07	6.70	30.3	40.0 U	10,200 J	10.0 U	10.0 U	23,400	10.0 U	50.0 U	20.0 U
MW-12	12/19/01	9.30		54.3	883,000	5.00 U	10.0 U	11,700,000	10.0 U	68.4	
MW-12S	02/06/07	1.20		63.1	821,000 J	10.0 U	10.0 U		10.0 U	54.6	20.0 U
MW-12SF	02/06/07	0.200 U		62.8	795,000 J	100. U	10.0 U	12,300,000 J	10.0 U	57.9	20.0 U
MW-13	12/18/01	6.00		40.0 U	1,690,000	5.00 U	10.0 U	183,000	10.0 U	50.0 U	20.0 U
MW-13S	02/12/07	0.880 J		40.0 U	315,000 J	10.0 U	10.0 U	895,000 J	10.0 U	50.0 U	20.0 U
MW-14	12/18/01	21.5		40.0 U	5,400	5.00 U	10.0 U	107,000	10.0 U	50.0 U	657.
MW14D	01/17/07	0.200 U	0.188	40.0 U	40,100 J	30.0 U	30.0 U	2,830,000 J	10.0 UJ	50.0 U	20.0 U
MW14D-Filtered	01/17/07	0.200 U	0.154	40.0 U	39,600 J	30.0 U	30.0 U	2,940,000 J	10.0 UJ	50.0 U	20.0 U
MW14S	01/18/07	7.40		40.0 U	5,000 U	10.0 U	10.0 U	110,000 J	10.0 U	50.0 U	68.5
MW14S-Filtered	01/18/07	0.390		40.0 U	5,000 U	10.0 U	10.0 U	122,000 J	10.0 U	50.0 U	20.0 U
MW-15	12/18/01	15.8		88.5	71,800	15.0 U	10.0 U	1,690,000	30.0 U	50.0 U	239.
MW-15S	39121.583	0.200 U		40.0 UJ	31,100 J	100. U	100. U	1,410,000	100. U	50.0 U	20.0 U
MW-15S	39122.514	0.200 U		99.0 J	41,200 J	100. U	100. U	1,410,000	100. U	50.0 U	20.0 U
MW-16	37244.733	0.760		40.0 U	34,300	5.00 U	10.0 U	790,000	10.0 U	66.1	30.4
MW16D	39097.479	0.360		40.0 U	51,500 J	50.0 U	50.0 U	2,110,000 J	50.0 U	50.0 U	100. U
MW16S	39100.622	0.310		40.0 U	30,300 J	10.0 U	10.0 U	352,000	10.0 U	50.0 U	20.0 U
MW16S-Filtered	39100.622	0.200 U		40.0 U	30,400 J	10.0 U	10.0 U	271,000	10.0 U	50.0 U	20.0 U
MW-17	37242.514	9.40		40.0 U	22,100	5.00 U	10.0 U	197,000	10.0 U	50.0 U	31.7
MW17D	39091.583	6.70		40.0 U	185,000 J	10.0 U	10.0 U	3,260,000 J	10.0 U	50.0 U	20.0 U
MW17S	39092.49	2.90		40.0 U	5,340 J	10.0 U	10.0 U	101,000	10.0 U	50.0 U	20.0 U
MW-18	37244.684	19.2		40.0 U	120,000	5.00 U	10.0 U	2,750,000	10.0 U	98.0	253.
MW18D	39094.517	11.1		40.0 U	111,000 J	10.0 U	10.0 U	2,170,000 J	10.0 UJ	50.0 U	20.0 U
MW-18S	39125.611	0.660 J		80.0 UJ	134,000 J	20.0 UJ	20.0 UJ	3,180,000 J	20.0 UJ	136. J	44.1 J
MW-19	37244.618	6.40		41.4	55,300	5.00 U	10.0 U	1,460,000	10.0 U	54.2	
MW-19S	39120.594	1.10		40.0 U	18,000	10.0 U	10.0 U	567,000	10.0 U	50.0 U	20.0 U
MW-20	37242.457	0.200 U		40.0 U	11,200	5.00 U	10.0 U	123,000	10.0 U	50.0 U	20.0 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Mercury	Methyl Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
MW20D	39098.438	4.50		40.0 U	35,400 J	30.0 U	30.0 U	765,000 J	10.0 UJ	50.0 U	20.0 U
MW20S	39098.604	0.200 U		40.0 U	5,240 J	10.0 U	10.0 U	51,700 J	10.0 UJ	50.0 U	123.
MW-21D	39101.5	0.200 U		40.0 U	30,300 J	20.0 U	20.0 U	1,860,000 J	20.0 U	50.0 U	20.0 U
MW-21D-F	39101.552	0.200 U		40.0 U	34,100 J	20.0 U	20.0 U	2,070,000 J	20.0 U	50.0 U	20.0 U
MW-21S	39101.649	0.200 U		40.0 U	200,000 J	10.0 U	10.0 U	1,970,000	10.0 U	50.0 U	20.0 U
MW-21S-F	39101.672	0.200 U		40.0 U	208,000 J	10.0 U	10.0 U	2,100,000	10.0 U	50.0 U	20.0 U
MW-22S	39122.434	0.200 U		40.0 U	66,600	10.0 U	10.0 U	198,000	10.0 U	50.0 U	20.0 U
MW-23D	39111.51	0.200 U		40.0 U	38,800 J	35.4	10.0 U	3,580,000	20.0 U	50.0 U	20.0 U
MW-23S	39102.617	27.0		40.0 U	7,070 J	10.0 U	10.0 U	353,000	10.0 U	50.0 U	20.0 U
MW-23S-F	39102.679	7.90		40.0 U	5,520 J	10.0 U	10.0 U	361,000	10.0 U	50.0 U	20.0 U
MW-24S	39121.438	164.	168,000	40.0 U	9,020	10.0 U	10.0 U	118,000	10.0 U	50.0 U	20.0 U
MW25D	39105.514	0.200 U	0.104	40.0 U	32,800 J	10.0 U	10.0 U	1,030,000	20.0 U	50.0 U	20.0 U
MW25D-FILTERED	39105.514	0.200 U		40.0 U	30,500 J	10.0 U	10.0 U	1,030,000	20.0 U	50.0 U	40.0 U
MW-26S	39125.653	2.60		56.6	23,800	10.7	10.0 U	974,000	10.0 U	50.0 U	20.0 U
MW-26S	39126.326	0.450		190.	25,200	10.0 U	10.0 U	978,000	10.0 U	50.0 U	20.0 U
MW-6	37244.392	0.200 U		40.0 U	83,900	5.00 U	10.0 U	2,220,000	10.0 U	50.0 U	20.0 U
MW-6D	39113.556	0.200 U		40.0 U	35,700 J	20.0 U	10.0 U	2,310,000 J	20.0 U	50.0 U	40.0 U
MW6S	39104.465	0.200 U		40.0 U	33,200 J	10.0 U	10.0 U	1,040,000	10.0 U	50.0 U	20.0 U
MW6S-FILTERED	39104.465	0.200 U		40.0 U	34,600 J	10.0 U	10.0 U	1,090,000	10.0 U	50.0 U	20.0 U
MW-7	37244.479	0.200 U		40.0 U	253,000	5.00 U	10.0 U	6,920,000	10.0 U	50.0 U	2,080
MW-7S	39114.563	0.200		40.0 U	74,300 J	100. U	10.0 U	4,830,000 J	10.0 U	50.0 U	119.
MW-8	37242.628	0.240		80.0 U	243,000	10.0 U	20.0 U	26,600,000	20.0 U	100. U	158.
MW-8S	39115.479	0.200 U		400. U	211,000 J	100. U	100. U	28,600,000 J	100. U	500. U	222.
MW-9	37242.698	0.570		40.0 U	44,000	5.00 U	10.0 U	872,000	10.0 U	50.0 U	154.
MW-9S	39120.458	0.200 U		40.0 U	38,000	10.0 U	10.0 U	1,350,000	10.0 U	50.0 U	79.3
TPS-1	39066.469	1,270		129.	25,500	10.0 U	10.0 U	56,400 J	10.0 U	50.0 U	2,070

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde	Endrin Ketone	Endrin
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DUP 011217	12/17/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U
DUP020107	2/1/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
DUP020707	2/7/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW-10	12/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U
MW-10S	2/2/2007	0.00420 U	0.00330 U	0.00540 U	0.00770 U	0.00390 U	0.00220 U	0.00210 U	0.00260 U	0.00410 U	0.00580 U	0.00810 U	0.00440 U	0.00380 U
MW-11	12/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U
MW-11D	1/30/2007	0.00360 U	0.00280 U	0.00460 U	0.00660 U	0.00330 U	0.00180 U	0.00180 U	0.00220 U	0.00340 U	0.00490 U	0.00690 U	0.00370 U	0.00320 U
MW-11S	1/30/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW-12	12/19/2001	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0500 UJ	0.0200 UJ
MW-12S	2/6/2007	0.00330 UJ	0.00260 UJ	0.00440 UJ	0.00620 UJ	0.00310 UJ	0.00170 UJ	0.00170 UJ	0.00210 UJ	0.00320 UJ	0.00460 UJ	0.00640 UJ	0.00350 UJ	0.00300 UJ
MW-13	12/18/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0550 U	0.0220 U
MW-13S	2/12/2007	0.00370 U	0.00290 U	0.00480 U	0.00690 U	0.00340 U	0.00190 U	0.00190 U	0.00230 U	0.00360 U	0.00510 U	0.00720 U	0.00390 U	0.00330 U
MW-14	12/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 UJ	0.0200 U
MW14D	1/17/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW14S	1/18/2007	0.00350 U	0.00270 U	0.00450 U	0.00640 U	0.00320 U	0.00180 U	0.00180 U	0.00220 U	0.00340 U	0.00480 U	0.00670 U	0.00360 U	0.00310 U
MW-15	12/18/2001	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0220 U	0.0550 UJ	0.0220 U
MW-15	12/18/2001	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.0680 U	0.170 UJ	0.0680 U
MW-15S	2/8/2007	0.00370 U	0.00290 U	0.00480 U	0.00690 U	0.00340 U	0.00190 U	0.00190 U	0.00230 U	0.00360 U	0.00510 U	0.00720 U	0.00390 U	0.00330 U
MW-16	12/19/2001	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0500 UJ	0.0200 UJ
MW16D	1/15/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 UJ	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW16S	1/18/2007	0.00330 UJ	0.00260 UJ	0.00440 U	0.00620 UJ	0.00310 UJ	0.00170 U	0.00170 UJ	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW-17	12/17/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U
MW17D	1/9/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW17S	1/10/2007	0.00360 U	0.00280 U	0.00470 U	0.00670 U	0.00340 U	0.00190 U	0.00190 U	0.00230 U	0.00350 U	0.00500 U	0.00700 U	0.00380 U	0.00330 U
MW-18	12/19/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 UJ	0.0200 U
MW18D	1/12/2007	0.00330 U	0.00260 U		0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U		0.00300 U
MW-18S	2/12/2007	0.00370 U	0.00290 U	0.00480 U	0.00680 U	0.00340 U	0.00190 U	0.00190 U	0.00230 U	0.00360 U	0.00510 U	0.00710 U	0.00380 U	0.00330 U
MW-19	12/19/2001	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0500 UJ	0.0200 UJ
MW-19S	2/7/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW-20	12/17/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U
MW20D	1/16/2007	0.00370 U	0.00290 U	0.00480 U	0.00680 U	0.00340 UJ	0.00190 U	0.00190 U	0.00230 U	0.00360 U	0.00510 U	0.00710 U	0.00380 U	0.00330 U
MW20S	1/16/2007	0.00360 U	0.00280 U	0.00460 U	0.00660 U	0.00330 UJ	0.00180 U	0.00180 U	0.00220 U	0.00340 U	0.00490 U	0.00690 U	0.00370 U	0.00320 U
MW-21D	1/19/2007	0.00360 U	0.00280 U	0.00460 U	0.00660 U	0.00330 U	0.00180 U	0.00180 U	0.00220 U	0.00340 U	0.00490 U	0.00690 U	0.00370 U	0.00320 U
MW-21S	1/19/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW-22S	2/9/2007	0.00360 U	0.00280 U	0.00470 U	0.00670 U	0.00340 U	0.00190 U	0.00190 U	0.00230 U	0.00350 U	0.00500 U	0.00700 U	0.00380 U	0.00330 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde	Endrin Ketone	Endrin
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
MW-23D	1/29/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW-23S	1/20/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW-24S	2/8/2007	0.00370 U	0.00290 U	0.00480 U	0.00680 U	0.00340 U	0.00190 U	0.00190 U	0.00230 U	0.00360 U	0.00510 U	0.00710 U	0.00380 U	0.00330 U
MW25D	1/23/2007	0.00350 U	0.00270 U	0.00460 U	0.00650 U	0.00330 UJ	0.00180 U	0.00180 U	0.00220 U	0.00340 U	0.00490 U	0.00680 U	0.00370 U	0.00320 U
MW-6	12/19/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 UJ	0.0200 U
MW-6D	1/31/2007	0.00370 U	0.00290 U	0.00480 U	0.00680 U	0.00340 U	0.00190 U	0.00190 U	0.00230 U	0.00360 U	0.00510 U	0.00710 U	0.00380 U	0.00330 U
MW6S	1/22/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 UJ	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW-7	12/19/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 UJ	0.0200 U
MW-7S	2/1/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U
MW-8	12/17/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U
MW-8S	2/2/2007	0.00330 UJ	0.00260 UJ	0.00440 UJ	0.00620 UJ	0.00310 UJ	0.00170 UJ	0.00170 UJ	0.00210 UJ	0.00320 UJ	0.00460 UJ	0.00640 UJ	0.00350 UJ	0.00300 UJ
MW-9	12/17/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U
MW-9S	2/7/2007	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U	0.00300 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DUP 011217	12/17/2001	0.0200 U	0.0200 U	0.0200 UJ	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
DUP020107	2/1/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
DUP020707	2/7/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW-10	12/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
MW-10S	2/2/2007	0.00220 U	0.00180 U	0.00320 U	0.00850 U	0.00300 U	0.00210 U	0.00620 U	0.120 U
MW-11	12/18/2001	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
MW-11D	1/30/2007	0.00180 U	0.00160 U	0.00270 U	0.00720 U	0.00260 U	0.00180 U	0.00520 U	0.100 U
MW-11S	1/30/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW-12	12/19/2001	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0500 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.250 UJ
MW-12S	2/6/2007	0.00170 UJ	0.00150 UJ	0.00260 U	0.00680 UJ	0.00240 UJ	0.00170 UJ	0.00490 UJ	0.0940 UJ
MW-13	12/18/2001	0.0220 U	0.0220 U	0.0220 U	0.0550 U	0.0220 U	0.0220 U	0.0220 U	0.280 U
MW-13S	2/12/2007	0.00190 U	0.00160 U	0.00280 U	0.00750 U	0.00270 U	0.00190 U	0.00550 U	0.100 U
MW-14	12/18/2001	0.0200 U	0.0200 U	0.0200 UJ	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
MW14D	1/17/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW14S	1/18/2007	0.00180 U	0.00150 U	0.00270 U	0.00700 U	0.00250 U	0.00170 U	0.00510 U	0.0980 U
MW-15	12/18/2001	0.0220 U	0.0220 U	0.0220 UJ	0.0550 U	0.0220 U	0.0220 U	0.0220 U	0.280 U
MW-15	12/18/2001	0.0680 U	0.0680 U	0.0680 UJ	0.170 U	0.0680 U	0.0680 U	0.0680 U	0.850 U
MW-15S	2/8/2007	0.00190 U	0.00160 U	0.00280 U	0.00750 U	0.00270 U	0.00190 U	0.00550 U	0.100 U
MW-16	12/19/2001	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0500 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.250 UJ
MW16D	1/15/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW16S	1/18/2007	0.00170 UJ	0.00150 UJ	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW-17	12/17/2001	0.0200 U	0.0200 U	0.0200 UJ	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
MW17D	1/9/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW17S	1/10/2007	0.00190 U	0.00160 U	0.00280 U	0.00730 U	0.0350 J	0.00180 U	0.00530 U	0.100 U
MW-18	12/19/2001	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
MW18D	1/12/2007	0.0670 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW-18S	2/12/2007	0.00190 U	0.00160 U	0.00280 U	0.00740 U	0.00270 U	0.00180 U	0.00540 U	0.100 U
MW-19	12/19/2001	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0500 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.250 UJ
MW-19S	2/7/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW-20	12/17/2001	0.0200 U	0.0200 U	0.0200 UJ	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
MW20D	1/16/2007	0.00190 U	0.00160 U	0.00280 U	0.00740 U	0.00270 U	0.00180 U	0.00540 U	0.100 U
MW20S	1/16/2007	0.00180 U	0.00160 U	0.00270 U	0.00720 U	0.00260 U	0.00180 U	0.00520 U	0.100 U
MW-21D	1/19/2007	0.00180 U	0.00160 U	0.00270 U	0.00720 U	0.00260 U	0.00180 U	0.00520 U	0.100 U
MW-21S	1/19/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW-22S	2/9/2007	0.00190 U	0.00160 U	0.00280 U	0.00730 U	0.00260 U	0.00180 U	0.00530 U	0.100 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
MW-23D	1/29/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW-23S	1/20/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW-24S	2/8/2007	0.00190 U	0.00160 U	0.00280 U	0.00740 U	0.00270 U	0.00180 U	0.00540 U	0.100 U
MW25D	1/23/2007	0.00180 U	0.00150 U	0.00270 U	0.00710 U	0.00250 U	0.00180 U	0.00520 U	0.0990 U
MW-6	12/19/2001	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
MW-6D	1/31/2007	0.00190 U	0.00160 U	0.00280 U	0.00740 U	0.00270 U	0.00180 U	0.00540 U	0.100 U
MW6S	1/22/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW-7	12/19/2001	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
MW-7S	2/1/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
MW-8	12/17/2001	0.0200 U	0.0200 U	0.0200 UJ	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
MW-8S	2/2/2007	0.00170 UJ	0.00150 U	0.00260 UJ	0.00680 UJ	0.00240 UJ	0.00170 UJ	0.00490 UJ	0.0940 UJ
MW-9	12/17/2001	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
MW-9S	2/7/2007	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Aroclor 1016		Aroclor 1221		Aroclor 1232		Aroclor 1242		Aroclor 1248		Aroclor 1254		Aroclor 1260	
		µg/l		µg/l		µg/l		µg/l		µg/l		µg/l		µg/l	
DUP 011217	12/17/2001	0.520	U	0.520	U	0.520	U	0.520	U	0.520	U	0.520	U	0.520	U
DUP020107	2/1/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
DUP020707	2/7/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW-10	12/18/2001	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
MW-10S	2/2/2007	0.120	U	0.590	U	0.490	U	0.210	U	0.190	U	0.140	U	0.150	U
MW-11	12/18/2001	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
MW-11D	1/30/2007	0.100	U	0.500	U	0.410	U	0.170	U	0.160	U	0.120	U	0.120	U
MW-11S	1/30/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW-12	12/19/2001	0.510	U	0.510	U	0.510	U	0.510	U	0.510	U	0.510	U	0.510	U
MW-12S	2/6/2007	0.0940	UJ	0.470	UJ	0.390	UJ	0.160	UJ	0.150	UJ	0.110	UJ	0.120	UJ
MW-13	12/18/2001	0.550	U	0.550	U	0.550	U	0.550	U	0.550	U	0.550	U	0.550	U
MW-13S	2/12/2007	0.100	U	0.520	U	0.430	U	0.180	U	0.170	U	0.120	U	0.130	U
MW-14	12/18/2001	0.520	U	0.520	U	0.520	U	0.520	U	0.520	U	0.520	U	0.520	U
MW14D	1/17/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW14S	1/18/2007	0.0980	U	0.490	U	0.410	U	0.170	U	0.160	U	0.110	U	0.120	U
MW-15	12/18/2001	0.570	U	0.570	U	0.570	U	0.570	U	0.570	U	0.570	U	0.570	U
MW-15	12/18/2001	1.70	U	1.70	U	1.70	U	1.70	U	1.70	U	1.70	U	1.70	U
MW-15S	2/8/2007	0.100	U	0.520	U	0.430	U	0.180	U	0.170	U	0.120	U	0.130	U
MW-16	12/19/2001	0.510	UJ	0.510	UJ	0.510	UJ	0.510	UJ	0.510	UJ	0.510	UJ	0.510	UJ
MW16D	1/15/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW16S	1/18/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW-17	12/17/2001	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
MW17D	1/9/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW17S	1/10/2007	0.100	U	0.510	U	0.420	U	0.180	U	0.170	U	0.120	U	0.130	U
MW-18	12/19/2001	0.530	UJ	0.530	UJ	0.530	UJ	0.530	UJ	0.530	UJ	0.530	UJ	0.530	UJ
MW18D	1/12/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW-18S	2/12/2007	0.100	U	0.520	U	0.430	U	0.180	U	0.170	U	0.120	U	0.130	U
MW-19	12/19/2001	0.510	U	0.510	U	0.510	U	0.510	U	0.510	U	0.510	U	0.510	U
MW-19S	2/7/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW-20	12/17/2001	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
MW20D	1/16/2007	0.100	U	0.520	U	0.430	U	0.180	U	0.170	U	0.120	U	0.130	U
MW20S	1/16/2007	0.100	U	0.500	U	0.410	U	0.170	U	0.160	U	0.120	U	0.120	U
MW-21D	1/19/2007	0.100	U	0.500	U	0.410	U	0.170	U	0.160	U	0.120	U	0.120	U
MW-21S	1/19/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW-22S	2/9/2007	0.100	U	0.510	U	0.420	U	0.180	U	0.170	U	0.120	U	0.130	U
MW-23D	1/29/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW-23S	1/20/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW-24S	2/8/2007	0.100	U	0.510	U	0.420	U	0.180	U	0.170	U	0.120	U	0.130	U
MW25D	1/23/2007	0.0990	U	0.490	U	0.410	U	0.170	U	0.160	U	0.110	U	0.120	U
MW-6	12/19/2001	0.510	U	0.510	U	0.510	U	0.510	U	0.510	U	0.510	U	0.510	U
MW-6D	1/31/2007	0.100	U	0.520	U	0.430	U	0.180	U	0.170	U	0.120	U	0.130	U
MW6S	1/22/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW-7	12/19/2001	0.520	U	0.520	U	0.520	U	0.520	U	0.520	U	0.520	U	0.520	U
MW-7S	2/1/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U
MW-8	12/17/2001	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
MW-8S	2/2/2007	0.0940	UJ	0.470	UJ	0.390	UJ	0.160	UJ	0.150	UJ	0.110	UJ	0.120	UJ
MW-9	12/17/2001	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
MW-9S	2/7/2007	0.0940	U	0.470	U	0.390	U	0.160	U	0.150	U	0.110	U	0.120	U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	1,1,1-Trichloroethane µg/l	1,1,2,2-Tetrachloroethane µg/l	1,1,2-Trichloroethane µg/l	1,1-Dichloroethane µg/l	1,1-Dichloroethene µg/l	1,2,4-Trichlorobenzene µg/l	1,2-Dibromoethane µg/l	1,2-Dichlorobenzene µg/l
DUP 011217	12/17/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
DUP020107	2/1/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
DUP020707	2/7/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
MW-10	12/18/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
MW-10S	2/2/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.490 J
MW-11	12/18/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
MW-11D	1/30/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	8.90
MW-11S	1/30/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	2.40 J	0.520 U	48.3
MW-12	12/19/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
MW-12S	2/6/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	13.1	0.520 U	93.7
MW-13	12/18/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
MW-13S	2/12/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	10.9
MW-14	12/18/2001	5.00 U	2.00 U	3.00 U	0.680 J	2.00 U			
MW14D	1/17/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
MW14S	1/18/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
MW-15	12/18/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
MW-15S	2/8/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	3.50
MW-16	12/19/2001	10.0 U	4.00 U	6.00 U	10.0 U	4.00 U			
MW16D	1/15/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
MW16S	1/18/2007	0.690 U	0.690 U	0.790 U	0.580 U	0.810 U	0.400 U	1.30 U	0.510 U
MW-17	12/17/2001	50.0 U	20.0 U	30.0 U	50.0 U	20.0 U	77.0 JN		440. JN
MW17D	1/9/2007	0.550 U	0.550 U	0.630 U	0.470 U	0.650 U	5.40 J	1.00 U	845.
MW17S	1/10/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	32.3	0.520 U	70.3
MW-18	12/19/2001	25.0 U	10.0 U	15.0 U	25.0 U	10.0 U			
MW18D	1/12/2007	0.690 U	0.690 U	0.790 U	0.580 U	0.810 U	80.4	1.30 U	272.
MW-18S	2/12/2007	1.40 U	1.40 U	1.60 U	1.20 U	1.60 U	0.800 U	2.60 U	123.
MW-19	12/19/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
MW-19S	2/7/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
MW-20	12/17/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
MW20D	1/16/2007	0.550 U	0.550 U	0.630 U	0.470 U	0.650 U	0.320 U	1.00 U	1,370
MW20S	1/16/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	1,1,1-Trichloroethane µg/l	1,1,2,2-Tetrachloroethane µg/l	1,1,2-Trichloroethane µg/l	1,1-Dichloroethane µg/l	1,1-Dichloroethene µg/l	1,2,4-Trichlorobenzene µg/l	1,2-Dibromoethane µg/l	1,2-Dichlorobenzene µg/l
MW-21D	1/19/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	1.10
MW-21S	1/19/2007	6.90 U	6.90 U	7.90 U	5.80 U	8.10 U	4.00 U	13.0 U	159.
MW-22S	2/9/2007	0.280 U	0.280 U	0.320 U	0.380 J	0.330 U	0.160 U	0.520 U	0.200 U
MW-23D	1/29/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
MW-23S	1/20/2007	0.280 U	0.280 U	0.320 U	2.60	0.330 U	0.160 U	0.520 U	0.900 J
MW-24S	2/8/2007	2.80 U	2.80 U	3.20 U	2.30 U	3.30 UJ	285.	5.20 U	4,220
MW25D	1/23/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	1.50
MW-6	12/19/2001	500. U	200. U	300. U	500. U	200. U			
MW-6D	1/31/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
MW6S	1/22/2007	0.550 U	0.550 U	0.630 U	0.470 U	0.650 U	0.660 J	1.00 U	3,060
MW-7	12/19/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
MW-7S	2/1/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
MW-8	12/17/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
MW-8S	2/2/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
MW-9	12/17/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
MW-9S	2/7/2007	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	1,2-Dichloroethane µg/l	1,2-Dichloro-propane µg/l	1,3-Dichloro-benzene µg/l	1,4-Dichloro-benzene µg/l	2-Butanone (MEK) µg/l	2-Hexanone µg/l	4-Methyl-2-Pentanone (MIBK) µg/l	Acetic Acid, Methyl Ester µg/l	Acetone µg/l	Benzene µg/l	Bromo-dichloromethane µg/l
DUP 011217	12/17/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U		34.3	1.00 U	1.00 U
DUP020107	2/1/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	0.210 U	0.170 U
DUP020707	2/7/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	8.90	0.170 U
MW-10	12/18/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U		75.1	1.00 U	1.00 U
MW-10S	2/2/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	0.210 U	0.170 U
MW-11	12/18/2001	2.00 U	1.00 U	15.0 JN		5.00 U	5.00 U	5.00 U		377.	17.9	1.00 U
MW-11D	1/30/2007	0.290 U	0.200 U	0.620 J	1.50	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	0.210 U	0.170 U
MW-11S	1/30/2007	0.290 U	0.200 U	63.4	123.	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	17.9	0.170 U
MW-12	12/19/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U		294. UJ	122.	1.00 U
MW-12S	2/6/2007	0.290 U	0.200 U	125.	80.9	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 U	101.	0.170 U
MW-13	12/18/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U		19.3 UJ	4.10	1.00 U
MW-13S	2/12/2007	0.290 U	0.200 U	12.6	6.90	2.60 U	1.30 U	1.10 U	2.10 U	2.40 U	20.7	0.170 U
MW-14	12/18/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U		385. UJ	1.00 U	1.00 U
MW14D	1/17/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 U	0.210 U	0.170 U
MW14S	1/18/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 U	0.210 U	0.170 U
MW-15	12/18/2001	1.40 J	1.00 U			5.00 U	5.00 U	5.00 U		1,510	43.9	1.00 U
MW-15S	2/8/2007	0.290 U	0.200 U	0.320 U	0.800 J	2.60 U	1.30 U	1.10 U	2.10 U	2.40 U	8.40	0.170 U
MW-16	12/19/2001	4.00 U	2.00 U			10.0 U	10.0 U	10.0 U		1,120	382.	2.00 U
MW16D	1/15/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	0.210 U	0.170 U
MW16S	1/18/2007	0.730 U	0.500 U	0.790 U	0.600 U	6.50 UJ	3.20 U	2.70 U	5.20 U	6.10 U	288.	0.440 U
MW-17	12/17/2001	20.0 U	10.0 U			50.0 U	50.0 U	50.0 U		510.	535.	10.0 U
MW17D	1/9/2007	40.3	0.400 U	29.3	140.	5.20 UJ	2.50 U	2.10 U	4.20 U	4.80 U	6.00	0.350 U
MW17S	1/10/2007	0.290 U	0.200 U	2.50	9.10	2.60 U	1.30 U	2.90 J	2.10 U	22.2	155.	0.170 U
MW-18	12/19/2001	10.0 U	5.00 U			25.0 U	25.0 U	25.0 U		409. UJ	9.30	5.00 U
MW18D	1/12/2007	6.80	0.500 U	10.7	46.0	6.50 UJ	3.20 U	2.70 U	5.20 U	6.10 UJ	4.50	0.440 U
MW-18S	2/12/2007	1.50 U	1.00 U	10.8	15.9	13.0 U	6.30 U	5.30 U	10.0 U	12.0 U	5.00	0.870 U
MW-19	12/19/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U		2,730 UJ	4.90	1.00 U
MW-19S	2/7/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	8.50	0.170 U
MW-20	12/17/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U		37.5	1.00 U	1.00 U
MW20D	1/16/2007	187.	0.400 U	62.7	207.	5.20 UJ	2.50 U	2.10 U	4.20 U	4.80 UJ	14.0	0.350 U
MW20S	1/16/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	0.210 U	0.170 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	1,2-Dichloroethane µg/l	1,2-Dichloro-propane µg/l	1,3-Dichloro-benzene µg/l	1,4-Dichloro-benzene µg/l	2-Butanone (MEK) µg/l	2-Hexanone µg/l	4-Methyl-2-Pentanone (MIBK) µg/l	Acetic Acid, Methyl Ester µg/l	Acetone µg/l	Benzene µg/l	Bromo-dichloromethane µg/l
MW-21D	1/19/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 U	0.210 U	0.170 U
MW-21S	1/19/2007	7.30 U	5.00 U	199.	183.	65.0 UJ	32.0 U	27.0 U	52.0 U	61.0 U	848.	4.40 U
MW-22S	2/9/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 U	1.30 U	1.10 U	2.10 U	2.40 UJ	1.30	0.170 U
MW-23D	1/29/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	0.260 J	0.170 U
MW-23S	1/20/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	20.0	0.170 U
MW-24S	2/8/2007	2.90 U	2.00 U	184.	582.	26.0 U	13.0 U	11.0 U	21.0 U	24.0 U	120.	1.70 U
MW25D	1/23/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 U	0.210 U	0.170 U
MW-6	12/19/2001	200. U	100. U			500. U	500. U	500. U		432. J	334.	100. U
MW-6D	1/31/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 U	0.300 J	0.170 U
MW6S	1/22/2007	0.590 U	0.400 U	193.	392.	5.20 UJ	2.50 U	2.10 U	4.20 U	4.80 U	198.	0.350 U
MW-7	12/19/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U		486. UJ	1.00 U	1.00 U
MW-7S	2/1/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	0.210 U	0.170 U
MW-8	12/17/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U		152.	1.00 U	1.00 U
MW-8S	2/2/2007	1.80	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	0.510 J	0.170 U
MW-9	12/17/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U		1,710 UJ	1.00 U	1.00 U
MW-9S	2/7/2007	0.290 U	0.200 U	0.320 U	0.240 U	2.60 UJ	1.30 U	1.10 U	2.10 U	2.40 UJ	0.210 U	0.170 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Bromoform µg/l	Bromomethane µg/l	Carbon Disulfide µg/l	Carbon Tetrachloride µg/l	Chlorobenzene µg/l	Chloro-dibromomethane µg/l	Chloroethane µg/l	Chloroform µg/l	Chloromethane µg/l	Cis-1,2-Dichloroethene µg/l	Cis-1,3-Dichloropropene µg/l
DUP 011217	12/17/2001	4.00 U	5.00 U	5.00 U	1.00 U	13.3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U
DUP020107	2/1/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
DUP020707	2/7/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW-10	12/18/2001	4.00 U	5.00 U	5.00 U	1.00 U	2.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U
MW-10S	2/2/2007	0.540 U	0.220 U	0.210 U	0.290 U	1.40	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW-11	12/18/2001	4.00 U	5.00 U	3.50 J	1.00 U	115.	5.00 U	5.00 U	33.6	5.00 U	1.20 J	1.00 U
MW-11D	1/30/2007	0.540 U	0.220 U	0.210 U	0.290 U	7.20	0.190 U	0.560 U	10.6	0.350 U	0.180 U	0.150 U
MW-11S	1/30/2007	0.540 U	0.220 U	0.210 U	0.290 U	813.	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW-12	12/19/2001	4.00 U	5.00 U	32.6 UJ	1.00 U	202.	5.00 U	5.00 U	5.00 U	5.00 U	0.760 J	1.00 U
MW-12S	2/6/2007	0.540 U	0.220 U	2.60	0.290 U	179.	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW-13	12/18/2001	4.00 U	5.00 U	5.00 U	1.00 U	16.9	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U
MW-13S	2/12/2007	0.540 U	0.220 U	0.210 U	0.290 U	91.5	0.190 U	0.560 U	0.920 J	0.350 U	3.00	0.150 U
MW-14	12/18/2001	4.00 U	5.00 U	5.00 U	1.00 U	2.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U
MW14D	1/17/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW14S	1/18/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW-15	12/18/2001	4.00 U	5.00 U	5.00 U	1.00 U	10.3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U
MW-15S	2/8/2007	0.540 U	0.220 U	0.210 U	0.290 U	4.00	0.190 U	0.560 U	0.220 U	0.350 U	0.800 J	0.150 U
MW-16	12/19/2001	8.00 U	10.0 U	3.50 J	2.00 U	1.60 J	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	2.00 U
MW16D	1/15/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.320 J	0.350 U	0.180 U	0.150 U
MW16S	1/18/2007	1.30 U	0.560 U	0.520 U	0.730 U	0.560 U	0.470 U	1.40 U	0.540 U	0.870 U	0.450 U	0.370 U
MW-17	12/17/2001	40.0 U	50.0 U	50.0 U	10.0 U	897.	50.0 U	50.0 U	7.10 J	50.0 U	50.0 U	10.0 U
MW17D	1/9/2007	1.10 U	0.450 U	0.410 U	0.580 U	458.	0.380 U	1.10 U	0.430 U	0.700 U	0.360 U	0.300 U
MW17S	1/10/2007	0.540 U	0.220 U	0.210 U	0.290 U	164.	0.190 U	0.560 U	3.50	0.350 U	0.180 U	0.150 U
MW-18	12/19/2001	20.0 U	25.0 U	25.0 U	5.00 U	36.7	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	5.00 U
MW18D	1/12/2007	1.30 U	0.560 U	0.520 U	0.730 U	388.	0.470 U	1.40 U	0.540 U	0.870 U	0.450 U	0.370 U
MW-18S	2/12/2007	2.70 U	1.10 U	1.40 J	1.50 U	36.6	0.940 U	2.80 U	1.10 U	1.70 UJ	0.890 U	0.740 U
MW-19	12/19/2001	4.00 U	5.00 U	4.00 J	1.00 U	0.890 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U
MW-19S	2/7/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW-20	12/17/2001	4.00 U	5.00 U	5.00 U	1.00 U	13.3	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U
MW20D	1/16/2007	1.10 U	0.450 U	0.410 U	0.580 U	1,140	0.380 U	1.10 U	0.430 U	0.700 U	0.360 U	0.300 U
MW20S	1/16/2007	0.540 U	0.220 U	0.210 U	0.290 U	2.90	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Bromoform µg/l	Bromomethane µg/l	Carbon Disulfide µg/l	Carbon Tetrachloride µg/l	Chlorobenzene µg/l	Chloro-dibromomethane µg/l	Chloroethane µg/l	Chloroform µg/l	Chloromethane µg/l	Cis-1,2-Dichloroethene µg/l	Cis-1,3-Dichloropropene µg/l
MW-21D	1/19/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW-21S	1/19/2007	13.0 U	5.60 U	5.20 U	7.30 U	8,890	4.70 U	14.0 U	5.40 U	8.70 U	4.50 U	3.70 U
MW-22S	2/9/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.870 J	0.150 U
MW-23D	1/29/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW-23S	1/20/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.340 J	0.150 U
MW-24S	2/8/2007	5.40 U	2.20 U	2.10 UJ	2.90 U	1,160	1.90 U	5.60 U	2.20 U	3.50 U	1.80 U	1.50 U
MW25D	1/23/2007	0.540 U	0.220 U	0.210 U	0.290 U	1.30	0.190 U	0.560 U	6.20	0.350 U	0.180 U	0.150 U
MW-6	12/19/2001	400. U	500. U	500. U	100. U	21,900	500. U	500. U	500. U	500. U	500. U	100. U
MW-6D	1/31/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW6S	1/22/2007	1.10 U	0.450 U	0.410 U	0.580 U	16,200	0.380 U	1.10 U	0.430 U	0.700 U	1.10 J	0.300 U
MW-7	12/19/2001	4.00 U	5.00 U	1.20 J	1.00 U	1.60 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U
MW-7S	2/1/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW-8	12/17/2001	4.00 U	5.00 U	1.90 J	1.00 U	2.00 U	5.00 U	5.00 U	1.10 J	5.00 U	5.00 U	1.00 U
MW-8S	2/2/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U
MW-9	12/17/2001	4.00 U	5.00 U	5.00 U	1.00 U	1.90 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	1.00 U
MW-9S	2/7/2007	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U	0.220 U	0.350 U	0.180 U	0.150 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Cyclohexane µg/l	DBCP µg/l	Dichloro-difluoromethane µg/l	Ethane, 2-Chloro-1,1-Dimethoxy- µg/l	Ether µg/l	Ethylbenzene µg/l	Indane µg/l	Indene µg/l	Iso-propylbenzene µg/l	M,P-Xylene (sum Of Isomers) µg/l	Methylcyclohexane µg/l
DUP 011217	12/17/2001						1.00 U					
DUP020107	2/1/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
DUP020707	2/7/2007	0.500 U	1.10 U	0.750 U	14.0 JN		0.200 U			0.200 U	0.420 U	0.180 U
MW-10	12/18/2001						1.00 U					
MW-10S	2/2/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW-11	12/18/2001						6.80					
MW-11D	1/30/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW-11S	1/30/2007	0.500 U	1.10 U	0.750 U			0.900 J			0.200 U	3.30	0.180 U
MW-12	12/19/2001						5.10	6.20 JN				
MW-12S	2/6/2007	0.500 U	1.10 U	0.750 U			4.40	5.60 JN		0.420 J	2.60	0.180 U
MW-13	12/18/2001						3.80					
MW-13S	2/12/2007	0.500 U	1.10 U	0.750 U			6.30	5.80 JN	21.0 JN	1.90 J	3.20	0.180 U
MW-14	12/18/2001						1.00 U					
MW14D	1/17/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW14S	1/18/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW-15	12/18/2001					1,900 JN	0.540 J					
MW-15S	2/8/2007	0.500 U	1.10 U	0.750 U		71.0 JN	0.200 U			0.200 U	0.420 U	0.180 U
MW-16	12/19/2001						65.7					
MW16D	1/15/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW16S	1/18/2007	1.20 U	2.70 U	1.90 U			30.4			0.500 U	1.00 U	0.460 U
MW-17	12/17/2001						10.7					
MW17D	1/9/2007	0.990 U	2.20 U	1.50 U			0.400 U			0.400 U	0.840 U	0.360 U
MW17S	1/10/2007	0.500 U	1.10 U	0.750 U			2.80			0.200 U	42.6	0.970 J
MW-18	12/19/2001						5.00 U					
MW18D	1/12/2007	1.20 U	2.70 U	1.90 U			0.510 U			0.500 U	1.00 U	0.460 U
MW-18S	2/12/2007	2.50 U	5.50 U	3.80 U			1.00 U			1.00 U	2.20 J	0.910 U
MW-19	12/19/2001						1.00 U					
MW-19S	2/7/2007	0.500 U	1.10 U	0.750 U	13.0 JN		0.200 U			0.200 U	0.420 U	0.180 U
MW-20	12/17/2001						1.00 U					
MW20D	1/16/2007	0.990 U	2.20 U	1.50 U			2.80			0.400 U	0.840 U	0.360 U
MW20S	1/16/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Cyclohexane µg/l	DBCP µg/l	Dichloro-difluoromethane µg/l	Ethane, 2-Chloro-1,1-Dimethoxy- µg/l	Ether µg/l	Ethylbenzene µg/l	Indane µg/l	Indene µg/l	Iso-propylbenzene µg/l	M,P-Xylene (sum Of Isomers) µg/l	Methylcyclohexane µg/l
MW-21D	1/19/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW-21S	1/19/2007	12.0 U	27.0 U	19.0 U			9.70 J			5.00 U	37.3	4.60 U
MW-22S	2/9/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW-23D	1/29/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW-23S	1/20/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW-24S	2/8/2007	5.00 U	11.0 U	7.50 U			15.4			2.00 U	114.	1.80 U
MW25D	1/23/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW-6	12/19/2001						100. U					
MW-6D	1/31/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW6S	1/22/2007	0.990 U	2.20 U	1.50 U			0.400 U			0.400 U	0.840 U	0.360 U
MW-7	12/19/2001						1.00 U					
MW-7S	2/1/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW-8	12/17/2001						1.00 U					
MW-8S	2/2/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U
MW-9	12/17/2001						1.00 U					
MW-9S	2/7/2007	0.500 U	1.10 U	0.750 U			0.200 U			0.200 U	0.420 U	0.180 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Methylene Chloride µg/l	Naphthalene µg/l	O-xylene µg/l	Styrene µg/l	Tert-Butyl Methyl Ether µg/l	Tetrachloroethylene(PERC) µg/l	Tetrahydrofuran µg/l	Toluene µg/l	Trans-1,2-Dichloroethene µg/l	Trans-1,3-Dichloropropene µg/l
DUP 011217	12/17/2001	2.00 U			5.00 U		1.00 U		1.00 U	5.00 U	1.00 U
DUP020107	2/1/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
DUP020707	2/7/2007	0.270 U		0.310 U	0.160 U	3.20	0.280 U		0.200 U	0.420 U	0.200 U
MW-10	12/18/2001	2.00 U			5.00 U		1.00 U		1.00 U	5.00 U	1.00 U
MW-10S	2/2/2007	0.270 U		0.310 U	0.160 U	1.00	0.280 U		0.200 U	0.420 U	0.200 U
MW-11	12/18/2001	111.			5.00 U		10.6		5.10	5.00 U	1.00 U
MW-11D	1/30/2007	2.20		0.310 U	0.330 J	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
MW-11S	1/30/2007	0.270 U		1.10	0.160 U	0.310 U	0.280 U		2.40	0.420 U	0.200 U
MW-12	12/19/2001	2.00 U	140. JN		5.00 U		1.00 U	6.60 JN	10.2	5.00 U	1.00 U
MW-12S	2/6/2007	0.270 U	47.0 JN	1.50	0.160 U	0.310 U	0.280 U	7.50 JN	6.20	0.420 U	0.200 U
MW-13	12/18/2001	2.00 U			5.00 U		1.00 U		3.70	5.00 U	1.00 U
MW-13S	2/12/2007	0.570 J	8.80 JN	5.90	0.160 U	0.310 U	0.280 U		3.10 U	0.850 J	0.200 U
MW-14	12/18/2001	2.00 U			5.00 U		1.00 U		1.00 U	5.00 U	1.00 U
MW14D	1/17/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
MW14S	1/18/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
MW-15	12/18/2001	2.00 U			5.00 U		1.00 U		1.10	5.00 U	1.00 U
MW-15S	2/8/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
MW-16	12/19/2001	4.00 U			1.00 J		2.00 U		2.00 U	10.0 U	2.00 U
MW16D	1/15/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
MW16S	1/18/2007	0.660 U		0.760 U	4.00 J	0.760 U	0.690 U		0.500 U	1.10 U	0.500 U
MW-17	12/17/2001	20.0 U	61.0 JN		50.0 U		10.0 U		765.	50.0 U	10.0 U
MW17D	1/9/2007	0.530 U		0.610 U	0.320 U	0.610 U	0.550 U		1.60 J	0.840 U	0.400 U
MW17S	1/10/2007	1.10 J	10.0 JN	3.90	0.160 U	0.310 U	0.280 U		137.	0.420 U	0.200 U
MW-18	12/19/2001	10.0 U	580. JN		25.0 U		5.00 U		5.00 U	25.0 U	5.00 U
MW18D	1/12/2007	0.660 U		0.760 U	0.400 U	0.760 U	0.690 U		2.90	1.10 U	0.500 U
MW-18S	2/12/2007	1.30 U	510. JN	1.50 U	0.790 U	1.50 U	1.40 U		1.40 J	2.10 U	1.00 U
MW-19	12/19/2001	2.00 U	19.0 JN		5.00 U	24.0 JN	1.00 U		1.00 U	5.00 U	1.00 U
MW-19S	2/7/2007	0.270 U		0.310 U	0.160 U	3.80	0.280 U		0.200 U	0.420 U	0.200 U
MW-20	12/17/2001	2.00 U			5.00 U		1.00 U		1.00 U	5.00 U	1.00 U
MW20D	1/16/2007	0.530 U		0.610 U	0.320 U	0.610 U	0.550 U		2.20	0.840 U	0.400 U
MW20S	1/16/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Methylene Chloride µg/l	Naphthalene µg/l	O-xylene µg/l	Styrene µg/l	Tert-Butyl Methyl Ether µg/l	Tetrachloroethylene(PERC) µg/l	Tetrahydrofuran µg/l	Toluene µg/l	Trans-1,2-Dichloroethene µg/l	Trans-1,3-Dichloropropene µg/l
MW-21D	1/19/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
MW-21S	1/19/2007	6.60 U	190. JN	7.60 U	4.00 U	7.60 U	6.90 U		58.9	11.0 U	5.00 U
MW-22S	2/9/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
MW-23D	1/29/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.920 J	0.420 U	0.200 U
MW-23S	1/20/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
MW-24S	2/8/2007	1,960	360. JN	14.4	1.60 U	3.10 U	6.90 J		26.4	4.20 UJ	2.00 U
MW25D	1/23/2007	0.450 J		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
MW-6	12/19/2001	200. U			500. U		100. U		100. U	500. U	100. U
MW-6D	1/31/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.320 J	0.420 U	0.200 U
MW6S	1/22/2007	0.530 U		0.820 J	0.320 U	10.5	0.550 U		0.820 J	0.840 U	0.400 U
MW-7	12/19/2001	2.00 U			5.00 U		1.00 U		1.00 U	5.00 U	1.00 U
MW-7S	2/1/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
MW-8	12/17/2001	2.00 U			5.00 U		1.00 U		1.00 U	5.00 U	1.00 U
MW-8S	2/2/2007	0.270 U		0.310 U	0.160 U	0.310 U	0.280 U		0.200 U	0.420 U	0.200 U
MW-9	12/17/2001	2.00 U			5.00 U		1.00 U		1.00 U	5.00 U	1.00 U
MW-9S	2/7/2007	0.270 U		0.310 U	0.160 U	0.450 J	0.280 U		0.200 U	0.420 U	0.200 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Trichloroethene (TCE) µg/l	Trichloro-fluoromethane µg/l	Trichloro-trifluoroethane µg/l	Vinyl Chloride µg/l	Xylenes, Mixed µg/l
DUP 011217	12/17/2001	1.00 U			1.00 U	1.00 U
DUP020107	2/1/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
DUP020707	2/7/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW-10	12/18/2001	1.00 U			1.00 U	1.00 U
MW-10S	2/2/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW-11	12/18/2001	4.70			1.00 U	41.1
MW-11D	1/30/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW-11S	1/30/2007	0.520 J	0.250 U	0.690 U	0.290 U	4.40
MW-12	12/19/2001	1.00 U			1.00 U	9.00
MW-12S	2/6/2007	0.290 U	0.250 U	0.690 U	0.290 U	4.00
MW-13	12/18/2001	1.00 U			1.00 U	7.30
MW-13S	2/12/2007	0.410 J	0.250 U	0.690 U	0.710 J	9.10
MW-14	12/18/2001	1.00 U			1.00 U	1.00 U
MW14D	1/17/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW14S	1/18/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW-15	12/18/2001	1.00 U			1.00 U	1.00 U
MW-15S	2/8/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW-16	12/19/2001	2.00 U			2.00 U	2.00 U
MW16D	1/15/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW16S	1/18/2007	0.720 U	0.630 U	1.70 U	0.720 U	0.760 U
MW-17	12/17/2001	10.0 U			10.0 U	210.
MW17D	1/9/2007	0.580 U	0.510 U	1.40 U	0.580 U	0.610 U
MW17S	1/10/2007	0.290 U	0.250 U	0.690 U	0.290 U	46.5
MW-18	12/19/2001	5.00 U			5.00 U	5.00 U
MW18D	1/12/2007	0.720 U	0.630 U	1.70 U	0.720 U	0.760 U
MW-18S	2/12/2007	1.40 U	1.30 U	3.40 U	1.40 U	3.10 J
MW-19	12/19/2001	1.00 U			1.00 U	1.00 U
MW-19S	2/7/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW-20	12/17/2001	1.00 U			1.00 U	1.00 U
MW20D	1/16/2007	0.580 U	0.510 U	1.40 U	0.580 U	0.610 U
MW20S	1/16/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Trichloroethene (TCE) µg/l	Trichloro-fluoromethane µg/l	Trichloro-trifluoroethane µg/l	Vinyl Chloride µg/l	Xylenes, Mixed µg/l
MW-21D	1/19/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW-21S	1/19/2007	7.20 U	6.30 U	17.0 U	7.20 U	37.3
MW-22S	2/9/2007	0.290 U	0.250 U	0.690 U	0.650 J	0.310 U
MW-23D	1/29/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW-23S	1/20/2007	0.410 J	0.250 U	0.690 U	0.290 U	0.310 U
MW-24S	2/8/2007	2.90 U	2.50 U	6.90 U	2.90 U	128.
MW25D	1/23/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW-6	12/19/2001	100. U			100. U	100. U
MW-6D	1/31/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW6S	1/22/2007	0.580 U	0.510 U	1.40 U	0.580 U	0.820 J
MW-7	12/19/2001	1.00 U			1.00 U	1.00 U
MW-7S	2/1/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW-8	12/17/2001	1.00 U			1.00 U	1.00 U
MW-8S	2/2/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
MW-9	12/17/2001	1.00 U			1.00 U	1.00 U
MW-9S	2/7/2007	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Cyanide	Percent Solids
		mg/l	mg/l
DUP 011217	12/17/2001	0.01 U	
DUP020107	2/1/2007	0.01 U	
DUP020707	2/7/2007	0.01 U	
MW-10	12/18/2001	0.01 U	
MW-10S	2/2/2007	0.01 U	
MW-11	12/18/2001	0.01 U	
MW-11D	1/30/2007	0.01 U	
MW-11S	1/30/2007	0.01 U	
MW-12	12/19/2001	0.064 UJ	
MW-12S	2/6/2007	0.077	
MW-13	12/18/2001	0.01 U	
MW-13S	2/12/2007	0.01 U	
MW-14	12/18/2001	0.01 UJ	
MW14D	1/17/2007	0.011	
MW14S	1/18/2007	0.01 U	
MW-15	12/18/2001	0.01 UJ	
MW-15S	2/9/2007	0.01 U	
MW-16	12/19/2001	0.01 U	
MW16D	1/15/2007	0.012	
MW16S	1/18/2007	0.01 U	
MW-17	12/17/2001	0.022	
MW17D	1/9/2007	0.0100 U	
MW17S	1/10/2007	0.0200	
MW-18	12/19/2001	0.0560	
MW18D	1/12/2007	0.0100 U	
MW-18S	2/12/2007	0.0440 J	
MW-19	12/19/2001	0.0100 UJ	
MW-19S	2/7/2007	0.0100 U	
MW-20	12/17/2001	0.0100 U	
MW20D	1/16/2007	0.0100 U	
MW20S	1/16/2007	0.0100 U	
MW-21D	1/19/2007	0.0100 U	
MW-21S	1/19/2007	0.0100 U	
MW-22S	2/9/2007	0.0100 U	
MW-23D	1/29/2007	0.0100 U	
MW-23S	1/20/2007	0.0100 U	
MW-24S	2/8/2007	0.0100 U	
MW25D	1/23/2007	0.0100 U	
MW-6	12/19/2001	0.0100 UJ	
MW-6D	1/31/2007	0.0100 U	
MW6S	1/22/2007	0.0100 U	
MW-7	12/19/2001	0.0100 UJ	
MW-7S	2/1/2007	0.0100 U	
MW-8	12/17/2001	0.0100 U	
MW-8S	2/2/2007	0.0100 U	
MW-9	12/17/2001	0.0100 U	
MW-9S	2/7/2007	0.0100 U	
TPS-1	12/15/2006		872.

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	1,2,3,4,6,7,8-HPCDD	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDD	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDD	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDD	1,2,3,7,8,9-HXCDF	1,2,3,7,8-PECDD
		NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L
MW-11D	1/30/2007	0.00000950 A	0.00000712 A	0.00000723 A	0.00000237 A	0.00000517 A	0.00000275 A	0.00000549 A	0.00000531 A	0.0000127 A	0.00000296 A
MW-24S	2/8/2007	0.0000555 A	0.000401	0.000127	0.0000118 A	0.000504	0.00000986 A	0.000137	0.00000720 A	0.0000621 A	0.0000114 A

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDF	Tetrachlorodibenzo-P-Dioxin	OCDD	OCDF	Total HPCDDS
		NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L
MW-11D	1/30/2007	0.00000838 A	0.00000358 A	0.00000385 A	0.00000459 A	0.00000207 U	0.0000442 A	0.0000172 A	0.0000135
MW-24S	2/8/2007	0.000243 DPE	0.0000348 A	0.000170	0.000240	0.00000381 A	0.00114	0.00120	0.000132

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Total HPCDFS	Total HXCDDS	Total HXCDFS	Total PECDDS	Total PECDFS	Total TCDDS	Total TCDFS
		NG/L	NG/L	NG/L	NG/L	NG/L	NG/L	NG/L
MW-11D	1/30/2007	0.0000166	0.00000768	0.0000269	0.00000296	0.0000122	0.00000207 U	0.00000710
MW-24S	2/8/2007	0.000719	0.000101	0.000907	0.0000643	0.000788	0.0000732	0.000747

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol µg/l	1,1'-Biphenyl µg/l	1,2,4-Trichlorobenzene µg/l	1,2-Dichlorobenzene µg/l	1,3-Dichlorobenzene µg/l	1,4-Dichlorobenzene µg/l	1-Methylnaphthalene µg/l	1-Naphthalenol µg/l	Phenanthrenecarboxylic Acid, µg/l	2,4,5-Trichlorophenol µg/l
DUP 011217	12/17/2001			2.10 U	2.10 U	2.10 U	2.10 U				5.20 U
DUP020107	2/1/2007		0.370 U								2.20 U
DUP020707	2/7/2007		0.330 U								1.90 U
MW-10	12/18/2001			2.20 U	2.20 U	2.20 U	2.20 U				5.60 U
MW-10S	2/2/2007		0.340 U								2.00 U
MW-11	12/18/2001			2,570	1,690	163.	547.				28.0 U
MW-11D	1/30/2007		0.360 U								2.10 U
MW-11S	1/30/2007		0.330 U		25.0 JN		28.0 JN				1.90 U
MW-12	12/19/2001	25.0 JN	13.0 JN	44.6	114.	96.5	73.5			12.0 JN	2.10 J
MW-12S	2/6/2007		0.820 J		50.0 JN	49.0 JN					2.40 U
MW-13	12/18/2001		10.0 JN	0.950 J	10.6	4.00	22.5	58.0 JN			5.60 U
MW-13S	2/12/2007		3.20					72.0 JN			2.10 U
MW-14	12/18/2001			2.00 U	0.510 J	2.00 U	2.00 U				5.00 U
MW14D	1/17/2007		0.330 U								1.90 U
MW14S	1/18/2007		0.330 U								1.90 U
MW-15	12/18/2001			2.10 U	6.60	2.10 U	1.50 J				5.30 U
MW-15S	2/8/2007		0.360 U								2.10 U
MW-16	12/19/2001			2.10 U	2.10 U	2.10 U	2.10 U				5.30 U
MW16D	1/15/2007		0.330 U								1.90 U
MW16S	1/18/2007		0.330 U								1.90 U
MW-17	12/17/2001			99.5	465.	13.6	46.1				5.10 U
MW17D	1/9/2007		0.330 UJ		420. JN		17.0 JN				1.90 U
MW17S	1/10/2007		2.20 J		39.0 JN						8.60 J
MW-18	12/19/2001	36.0 JN		2.90	34.6	1.70 J	5.60		32.0 JN	11.0 JN	5.30 U
MW18D	1/12/2007		0.340 U		77.0 JN		4.20 JN				2.00 U
MW-18S	2/12/2007		0.330 U								1.90 U
MW-19	12/19/2001			2.10 U	2.10 U	2.10 U	2.10 U				5.30 U
MW-19S	2/7/2007		0.330 U								1.90 U
MW-20	12/17/2001			2.10 U	0.980 J	2.10 U	2.10 U				5.30 U
MW20D	1/16/2007		0.380 J		180. JN		8.70 JN				1.90 U
MW20S	1/16/2007		0.350 U								2.10 U
MW-21D	1/19/2007		0.340 U								2.00 U
MW-21S	1/19/2007	39.0 JN	1.30 J		82.0 JN	99.0 JN					1.90 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	_1,1'-Binaphthalene_-2,2'-Diol µg/l	1,1'-Biphenyl µg/l	1,2,4-Trichlorobenzene µg/l	1,2-Dichlorobenzene µg/l	1,3-Dichlorobenzene µg/l	1,4-Dichlorobenzene µg/l	1-Methylnaphthalene µg/l	1-Naphthalenol µg/l	Phenanthrenecarboxylic Acid, µg/l	2,4,5-Trichlorophenol µg/l
MW-22S	2/9/2007		0.330 U								1.90 U
MW-23D	1/29/2007		0.350 U								2.10 U
MW-23S	1/20/2007		0.350 U								2.10 U
MW-24S	2/8/2007		43.5		240. JN						2.10 U
MW25D	1/23/2007		0.330 U								1.90 U
MW-6	12/19/2001			6.00 J	7,240	158.	377.				27.0 U
MW-6D	1/31/2007		0.360 U								2.10 U
MW6S	1/22/2007		0.330 U		190. JN	15.0 JN					1.90 U
MW-7	12/19/2001			2.10 U	1.80 J	2.10 U	2.10 U				5.30 U
MW-7S	2/1/2007		0.370 U								2.20 U
MW-8	12/17/2001			2.20 U	2.20 U	2.20 U	2.20 U				5.50 U
MW-8S	2/2/2007		0.360 U								2.10 U
MW-9	12/17/2001			2.00 U	1.60 J	0.850 J	0.860 J				5.00 U
MW-9S	2/7/2007		0.330 U								1.90 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	2,4,6-Trichlorophenol µg/l	2,4-Dichlorophenol µg/l	2,4-Dimethylphenol µg/l	2,4-Dinitrophenol µg/l	2,4-Dinitrotoluene µg/l	2,6-Dinitrotoluene µg/l	2-Chloronaphthalene µg/l	2-Chlorophenol µg/l	2-Pentanone, 4-Hydroxy-4-Methyl- µg/l	3,3'-Dichlorobenzidine µg/l
DUP 011217	12/17/2001	5.20 U	5.20 U	5.20 U	21.0 U	2.10 U	2.10 U	5.20 U	5.20 U		5.20 U
DUP020107	2/1/2007	1.40 U	1.80 U	1.80 U	1.00 U	0.970 U	0.630 U	1.10 U	1.10 U		1.40 U
DUP020707	2/7/2007	1.30 U	1.60 U	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U		1.20 U
MW-10	12/18/2001	5.60 U	5.60 U	5.60 U	22.0 U	2.20 U	2.20 U	5.60 U	5.60 U	6.90 JNB	5.60 U
MW-10S	2/2/2007	1.30 U	1.60 U	1.70 U	0.940 U	0.910 U	0.590 U	1.00 U	1.00 U		1.30 U
MW-11	12/18/2001	28.0 U	28.0 U	28.0 U	110. U	11.0 U	11.0 U	6.60 J	28.0 U		28.0 U
MW-11D	1/30/2007	1.40 U	1.70 U	1.80 U	0.990 U	0.960 U	0.620 U	1.10 U	1.10 U		1.40 U
MW-11S	1/30/2007	1.30 U	1.60 U	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	2.70 J		1.20 U
MW-12	12/19/2001	5.20 U	2.80 J	15.8	21.0 U	2.10 U	2.10 U	5.20 U	5.20		5.20 U
MW-12S	2/6/2007	1.60 U	6.30	3.90 J	1.10 U	1.10 U	0.700 U	1.20 U	11.0		1.50 U
MW-13	12/18/2001	5.60 U	3.30 J	2.10 J	22.0 U	2.20 U	2.20 U	5.60 U	5.60 U	9.30 JNB	5.60 U
MW-13S	2/12/2007	1.40 U	1.70 U	1.80 U	0.990 U	0.960 U	0.620 U	1.10 U	1.10 U		1.40 U
MW-14	12/18/2001	5.00 U	5.00 U	5.00 U	20.0 U	2.00 U	2.00 U	5.00 U	5.00 U		5.00 U
MW14D	1/17/2007	1.30 U	1.60 U	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U		1.20 U
MW14S	1/18/2007	1.30 U	1.60 U	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U		1.20 U
MW-15	12/18/2001	5.30 U	5.30 U	1.80 J	21.0 U	2.10 U	2.10 U	6.10	5.30 U	4.70 JNB	5.30 U
MW-15S	2/8/2007	1.40 U	1.70 U	1.80 U	0.970 U	0.930 U	0.610 U	1.10 U	1.00 U		1.30 U
MW-16	12/19/2001	5.30 U	5.30 U	5.30 U	21.0 U	2.10 U	2.10 U	5.30 U	5.30 U		5.30 U
MW16D	1/15/2007	1.30 U	1.60 U	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U		1.20 U
MW16S	1/18/2007	1.30 U	1.60 U	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U		1.20 U
MW-17	12/17/2001	5.10 U	28.2	4.40 J	20.0 U	2.00 U	2.00 U	5.10 U	15.4		5.10 U
MW17D	1/9/2007	1.30 UJ	1.60 UJ	1.60 U	0.890 U	0.860 U	0.560 U	0.980 UJ	1.80 J		1.20 U
MW17S	1/10/2007	2.20 J	6.40 J	9.60 J	0.970 U	0.930 U	0.610 U	1.10 UJ	4.30 J		1.30 U
MW-18	12/19/2001	5.30 U	5.30 U	2.80 J	21.0 U	2.10 U	2.10 U	77.0	5.30 U		5.30 U
MW18D	1/12/2007	1.30 U	1.60 U	1.70 U	0.930 U	0.900 U	0.580 U	1.00 U	3.20 J		1.30 U
MW-18S	2/12/2007	1.30 U	1.60 U	3.20 J	0.890 U	0.860 U	0.560 U	44.6	0.950 U		1.20 U
MW-19	12/19/2001	5.30 U	5.30 U	5.30 U	21.0 U	2.10 U	2.10 U	5.30 U	5.30 U	4.70 JNB	5.30 U
MW-19S	2/7/2007	1.30 U	1.60 U	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U		1.20 U
MW-20	12/17/2001	5.30 U	5.30 U	5.30 U	21.0 U	2.10 U	2.10 U	5.30 U	5.30 U		5.30 U
MW20D	1/16/2007	1.30 U	2.40 J	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U		1.20 U
MW20S	1/16/2007	1.30 U	1.70 U	1.70 U	0.950 U	0.910 U	0.590 U	1.00 U	1.00 U		1.30 U
MW-21D	1/19/2007	1.30 U	1.60 U	1.70 U	0.940 U	0.910 U	0.590 U	1.00 U	1.00 U		1.30 U
MW-21S	1/19/2007	1.30 U	11.7	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	5.00		1.20 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	2,4,6-Trichlorophenol µg/l	2,4-Dichlorophenol µg/l	2,4-Dimethylphenol µg/l	2,4-Dinitrophenol µg/l	2,4-Dinitrotoluene µg/l	2,6-Dinitrotoluene µg/l	2-Chloronaphthalene µg/l	2-Chlorophenol µg/l	2-Pentanone, 4-Hydroxy-4-Methyl- µg/l	3,3'-Dichlorobenzidine µg/l
MW-22S	2/9/2007	1.30 U	1.60 U	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U		1.20 U
MW-23D	1/29/2007	1.40 U	1.70 U	1.80 U	0.960 U	0.920 U	0.600 U	1.10 U	1.00 U		1.30 U
MW-23S	1/20/2007	1.30 U	1.70 U	1.70 U	0.950 U	0.910 U	0.590 U	1.00 U	1.00 U		1.30 U
MW-24S	2/8/2007	1.40 U	5.50	1.80 U	0.970 U	0.930 U	0.610 U	7.90	1.00 U		1.30 U
MW25D	1/23/2007	1.30 U	1.60 U	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U		1.20 U
MW-6	12/19/2001	27.0 U	27.0 U	27.0 U	110. U	11.0 U	11.0 U	27.0 U	27.2		27.0 U
MW-6D	1/31/2007	1.40 U	1.70 U	1.80 U	0.990 U	0.960 U	0.620 U	1.10 U	1.10 U		1.40 U
MW6S	1/22/2007	1.30 U	1.60 U	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	26.1		1.20 U
MW-7	12/19/2001	5.30 U	5.30 U	5.30 U	21.0 U	2.10 U	2.10 U	5.30 U	5.30 U	6.90 JNB	5.30 U
MW-7S	2/1/2007	1.40 U	1.80 U	1.80 U	1.00 U	0.970 U	0.630 U	1.10 U	1.10 U		1.40 U
MW-8	12/17/2001	5.50 U	5.50 U	5.50 U	22.0 U	2.20 U	2.20 U	5.50 U	5.50 U		5.50 U
MW-8S	2/2/2007	1.40 U	1.70 U	1.80 U	0.970 U	0.930 U	0.610 U	1.10 U	1.00 U		1.30 U
MW-9	12/17/2001	5.00 U	5.00 U	5.00 U	20.0 U	2.00 U	2.00 U	5.00 U	5.00 U	5.50 JNB	5.00 U
MW-9S	2/7/2007	1.30 U	1.60 U	1.60 U	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U		1.20 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4-Nitroaniline	4-Nitrophenol	7h-Benz_de_anthracen-7-One	9,10-Anthracenedione, 1-Amino-
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DUP 011217	12/17/2001	5.20 U	21.0 U	2.10 U	5.20 U	25.0	2.10 U	5.20 U	21.0 U		
DUP020107	2/1/2007	1.40 U	0.810 U	0.340 U	1.30 U	0.450 U	0.480 U	0.810 U	0.950 U		
DUP020707	2/7/2007	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U	0.840 U		
MW-10	12/18/2001	5.60 U	22.0 U	2.20 U	5.60 U	5.60 U	2.20 U	5.60 U	22.0 U		
MW-10S	2/2/2007	1.30 U	0.760 U	0.310 U	1.20 U	0.420 U	0.450 U	0.760 U	0.890 U		
MW-11	12/18/2001	28.0 U	110. U	11.0 U	28.0 U	28.0 U	11.0 U	28.0 U	110. U		
MW-11D	1/30/2007	1.40 U	0.800 U	0.330 U	1.30 U	1.90 J	0.480 U	0.800 U	0.940 U		
MW-11S	1/30/2007	1.30 U	0.720 U	0.300 U	1.20 U	8.30	0.430 U	0.720 U	0.840 U		
MW-12	12/19/2001	5.20 U	21.0 U	2.10 U	5.20 U	1,300	2.10 U	5.20 U	21.0 U		
MW-12S	2/6/2007	1.60 U	0.900 U	0.370 U	1.50 U	1,920	0.540 U	0.900 U	1.10 U		
MW-13	12/18/2001	5.60 U	22.0 U	2.20 U	5.60 U	120.	2.20 U	5.60 U	22.0 U		
MW-13S	2/12/2007	1.40 U	0.800 U	0.330 U	1.30 U	4,220	0.480 U	0.800 U	0.940 U		
MW-14	12/18/2001	5.00 U	20.0 U	2.00 U	5.00 U	5.00 U	2.00 U	5.00 U	20.0 U		
MW14D	1/17/2007	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U	0.840 U		
MW14S	1/18/2007	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U	0.840 U		
MW-15	12/18/2001	5.30 U	21.0 U	2.10 U	5.30 U	5.30 U	2.10 U	5.30 U	21.0 U		
MW-15S	2/8/2007	1.40 U	0.780 U	0.330 U	1.30 U	0.430 U	0.470 U	0.780 U	0.920 U		
MW-16	12/19/2001	5.30 U	21.0 U	2.10 U	5.30 U	1.40 J	2.10 U	5.30 U	21.0 U		
MW16D	1/15/2007	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U	0.840 U		
MW16S	1/18/2007	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U	0.840 U		
MW-17	12/17/2001	5.10 U	20.0 U	2.00 U	5.10 U	4,120	2.00 U	5.10 U	20.0 U		
MW17D	1/9/2007	1.30 U	0.720 U	0.300 U	1.20 U	183. J	0.430 U	0.720 U	0.840 U		
MW17S	1/10/2007	1.40 U	0.780 U	0.330 U	1.30 U	4,460 J	0.470 U	0.780 U	0.920 U		
MW-18	12/19/2001	5.30 U	21.0 U	2.10 U	5.30 U	5.30 U	2.10 U	5.30 U	21.0 U	7.50 JN	14.0 JN
MW18D	1/12/2007	1.30 U	0.750 U	0.310 U	1.20 U	42.5	0.450 U	0.750 U	0.880 UJ		
MW-18S	2/12/2007	1.30 U	0.720 U	0.300 U	1.20 U	3.40 J	0.430 U	0.720 U	0.840 U		
MW-19	12/19/2001	5.30 U	21.0 U	2.10 U	5.30 U	5.30 U	2.10 U	5.30 U	21.0 U		
MW-19S	2/7/2007	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U	0.840 U		
MW-20	12/17/2001	5.30 U	21.0 U	2.10 U	5.30 U	33.2	2.10 U	5.30 U	21.0 U		
MW20D	1/16/2007	1.30 U	0.720 U	0.300 U	1.20 U	304.	0.430 U	0.720 U	0.840 U		
MW20S	1/16/2007	1.30 U	0.770 U	0.320 U	1.30 U	8.90	0.460 U	0.770 U	0.900 U		
MW-21D	1/19/2007	1.30 U	0.760 U	0.310 U	1.20 U	0.420 U	0.450 U	0.760 U	0.890 U		
MW-21S	1/19/2007	1.30 U	0.720 U	0.300 U	1.20 U	3,970	0.430 U	0.720 U	0.840 U		

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4-Nitroaniline	4-Nitrophenol	7h-Benz_de_anthracen-7-One	9,10-Anthracenedione, 1-Amino-
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
MW-22S	2/9/2007	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U	0.840 U		
MW-23D	1/29/2007	1.40 U	0.780 U	0.320 U	1.30 U	0.430 U	0.460 U	0.780 U	0.910 U		
MW-23S	1/20/2007	1.30 U	0.770 U	0.320 U	1.30 U	0.420 U	0.460 U	0.770 U	0.900 U		
MW-24S	2/8/2007	1.40 U	0.780 U	0.330 U	1.30 U	10.4	0.470 U	0.780 U	0.920 U		
MW25D	1/23/2007	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U	0.840 U		
MW-6	12/19/2001	27.0 U	110. U	11.0 U	27.0 U	27.0 U	11.0 U	27.0 U	110. U		
MW-6D	1/31/2007	1.40 U	0.800 U	0.330 U	1.30 U	0.440 U	0.480 U	0.800 U	0.940 U		
MW6S	1/22/2007	1.30 U	0.720 U	0.300 U	1.20 U	1.60 J	0.430 U	0.720 U	0.840 U		
MW-7	12/19/2001	5.30 U	21.0 U	2.10 U	5.30 U	5.30 U	2.10 U	5.30 U	21.0 U		
MW-7S	2/1/2007	1.40 U	0.810 U	0.340 U	1.30 U	0.450 U	0.480 U	0.810 U	0.950 U		
MW-8	12/17/2001	5.50 U	22.0 U	2.20 U	5.50 U	1.50 J	2.20 U	5.50 U	22.0 U		
MW-8S	2/2/2007	1.40 U	0.780 U	0.330 U	1.30 U	0.430 U	0.470 U	0.780 U	0.920 U		
MW-9	12/17/2001	5.00 U	20.0 U	2.00 U	5.00 U	5.00 U	2.00 U	5.00 U	20.0 U		
MW-9S	2/7/2007	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U	0.840 U		

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	9,10-Anthracenedione µg/l	Acenaphthene µg/l	Acenaphthylene µg/l	Acetophenone µg/l	Anthracene µg/l	Anthrone µg/l	Atrazine µg/l	Benzaldehyde µg/l	Benzene Acetic Acid µg/l	Benzenepropanoic Acid µg/l	Benzenethiol µg/l	Benzo (a) Anthracene µg/l
DUP 011217	12/17/2001		2.10 U	2.10 U		2.10 U							2.10 U
DUP020107	2/1/2007				0.420 U			0.180 U	0.300 U				
DUP020707	2/7/2007				0.370 U			0.160 U	0.270 U				
MW-10	12/18/2001		2.20 U	2.20 U		2.20 U							2.20 U
MW-10S	2/2/2007				0.390 U			0.170 U	0.280 U				
MW-11	12/18/2001		3.10 J	11.0 U		8.00 J							11.0 U
MW-11D	1/30/2007				0.420 U			0.180 U	0.290 U				
MW-11S	1/30/2007				0.370 U			0.160 U	0.270 U				
MW-12	12/19/2001		69.6	2.10 U		6.80	20.0 JN					42.0 JN	0.890 J
MW-12S	2/6/2007		13.1		0.470 U			0.200 U	0.330 U			58.0 JN	
MW-13	12/18/2001		59.5	1.10 J		1.80 J							2.20 U
MW-13S	2/12/2007		52.8		0.420 U			0.180 U	0.290 U				
MW-14	12/18/2001		2.00 U	2.00 U		2.00 U							2.00 U
MW14D	1/17/2007				0.370 U			0.160 U	0.270 U				
MW14S	1/18/2007				0.370 U			0.160 U	0.270 U				
MW-15	12/18/2001		3.90	2.10 U		4.80							2.10 U
MW-15S	2/8/2007				0.410 U			0.180 U	0.290 U				
MW-16	12/19/2001		2.10 U	2.10 U		2.10 U				12.0 JN	110. JN		2.10 U
MW16D	1/15/2007				0.370 U			0.160 U	0.270 U				
MW16S	1/18/2007				0.370 U			0.160 U	0.270 U				
MW-17	12/17/2001		2.00 U	2.00 U		1.40 J							2.00 U
MW17D	1/9/2007				0.370 U			0.160 U	0.270 U				
MW17S	1/10/2007				0.410 U			0.180 U	0.290 U				
MW-18	12/19/2001		0.770 J	2.10 U		30.1							2.10 U
MW18D	1/12/2007				0.390 U			0.170 U	0.280 U				
MW-18S	2/12/2007				0.370 U	13.5		0.160 U	0.270 U				
MW-19	12/19/2001		2.10 U	2.10 U		2.10 U				4.60 JN			2.10 U
MW-19S	2/7/2007				0.370 U			0.160 U	0.270 U				
MW-20	12/17/2001		2.10 U	2.10 U		2.10 U							2.10 U
MW20D	1/16/2007				0.370 U			0.160 U	0.270 U				
MW20S	1/16/2007				0.400 U			0.170 U	0.280 U				
MW-21D	1/19/2007				0.390 U			0.170 U	0.280 U				
MW-21S	1/19/2007				0.370 U			0.160 U	0.270 U				

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	9,10-Anthracenedione µg/l	Acenaphthene µg/l	Acenaphthylene µg/l	Acetophenone µg/l	Anthracene µg/l	Anthrone µg/l	Atrazine µg/l	Benzaldehyde µg/l	Benzene Acetic Acid µg/l	Benzenepropanoic Acid µg/l	Benzenethiol µg/l	Benzo (a) Anthracene µg/l
MW-22S	2/9/2007				0.370 U			0.160 U	0.270 U				
MW-23D	1/29/2007				0.400 U			0.180 U	0.280 U				
MW-23S	1/20/2007				0.400 U			0.170 U	0.280 U				
MW-24S	2/8/2007	54.0 JN			0.410 U			0.180 U	0.290 U				
MW25D	1/23/2007				0.370 U			0.160 U	0.270 U				
MW-6	12/19/2001		11.0 U	11.0 U		11.0 U							11.0 U
MW-6D	1/31/2007				0.420 U			0.180 U	0.290 U				
MW6S	1/22/2007				0.370 U			0.160 U	0.270 U				
MW-7	12/19/2001		1.70 J	2.10 U		2.10 U							2.10 U
MW-7S	2/1/2007				0.420 U			0.180 U	0.300 U				
MW-8	12/17/2001		2.20 U	2.20 U		2.20 U							2.20 U
MW-8S	2/2/2007				0.410 U			0.180 U	0.290 U				
MW-9	12/17/2001		2.00 U	2.00 U		2.00 U							2.00 U
MW-9S	2/7/2007				0.370 U			0.160 U	0.270 U				

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Benzo (a) Pyrene µg/l	Benzo (b) fluoranthene µg/l	Benzo (g,H,i) Perylene µg/l	Benzo (k) fluoranthene µg/l	Benzoic Acid µg/l	Bis(2-Chloroethoxy) Methane µg/l	Bis(2-Chloroethyl) Ether µg/l	Bis(2-Chloroisopropyl) Ether µg/l	Bis(2-Ethylhexyl) Phthalate µg/l	Bisphenol A µg/l	Butyl Benzyl Phthalate µg/l	Camphene µg/l
DUP 011217	12/17/2001	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	
DUP020107	2/1/2007						0.730 U	0.600 U	0.830 U	0.740 U		0.670 U	
DUP020707	2/7/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	
MW-10	12/18/2001	2.20 U	2.20 U	2.20 U	2.20 U		2.20 U	2.20 U	2.20 U	2.20 U		2.20 U	
MW-10S	2/2/2007						0.690 U	0.560 U	0.780 U	0.700 U		0.620 U	
MW-11	12/18/2001	11.0 U	11.0 U	11.0 U	11.0 U		11.0 U	11.0 U	11.0 U	11.0 U		11.0 U	
MW-11D	1/30/2007						0.730 U	0.590 U	0.820 U	2.00 J		0.660 U	
MW-11S	1/30/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	
MW-12	12/19/2001	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	
MW-12S	2/6/2007						0.820 U	0.660 U	0.920 U	0.830 U		0.740 U	
MW-13	12/18/2001	2.20 U	2.20 U	2.20 U	2.20 U		2.20 U	2.20 U	2.20 U	2.20 U		2.20 U	
MW-13S	2/12/2007						0.730 U	0.590 U	0.820 U	0.730 U		0.660 U	
MW-14	12/18/2001	2.00 U	2.00 U	2.00 U	2.00 U		2.00 U	2.00 U	2.00 U	2.00 U		2.00 U	
MW14D	1/17/2007						0.650 U	0.530 U	0.740 U	6.80		0.590 U	
MW14S	1/18/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	
MW-15	12/18/2001	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	
MW-15S	2/8/2007						0.710 U	0.580 U	0.800 U	1.10 J		0.640 U	
MW-16	12/19/2001	2.10 U	2.10 U	2.10 U	2.10 U	35.0 JN	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	
MW16D	1/15/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	
MW16S	1/18/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	
MW-17	12/17/2001	2.00 U	2.00 U	2.00 U	2.00 U		2.00 U	2.00 U	2.00 U	2.00 U		2.00 U	
MW17D	1/9/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	
MW17S	1/10/2007						0.710 U	0.580 U	0.800 U	0.720 U		0.640 U	
MW-18	12/19/2001	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	2.10 U	2.10 U	2.10 U	46.0 JN	2.10 U	6.90 JN
MW18D	1/12/2007						0.680 U	0.550 U	0.770 U	0.690 U		0.620 U	
MW-18S	2/12/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	
MW-19	12/19/2001	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	
MW-19S	2/7/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	
MW-20	12/17/2001	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	
MW20D	1/16/2007						0.650 U	0.530 U	0.740 U	6.50		0.590 U	
MW20S	1/16/2007						0.700 U	0.560 U	0.790 U	0.700 U		0.630 U	
MW-21D	1/19/2007						0.690 U	0.560 U	0.780 U	0.700 U		0.620 U	
MW-21S	1/19/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Benzo (a) Pyrene µg/l	Benzo (b) fluoranthene µg/l	Benzo (g,H,i) Perylene µg/l	Benzo (k) fluoranthene µg/l	Benzoic Acid µg/l	Bis(2-Chloroethoxy) Methane µg/l	Bis(2-Chloroethyl) Ether µg/l	Bis(2-Chloroisopropyl) Ether µg/l	Bis(2-Ethylhexyl) Phthalate µg/l	Bisphenol A µg/l	Butyl Benzyl Phthalate µg/l	Camphene µg/l
MW-22S	2/9/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	
MW-23D	1/29/2007						0.700 U	0.570 U	0.790 U	0.710 U		0.640 U	
MW-23S	1/20/2007						0.700 U	0.560 U	0.790 U	0.700 U		0.630 U	
MW-24S	2/8/2007						0.710 U	0.580 U	0.800 U	1.40 J		0.640 U	
MW25D	1/23/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	
MW-6	12/19/2001	11.0 U	11.0 U	11.0 U	11.0 U		11.0 U	11.0 U	11.0 U	11.0 U		11.0 U	
MW-6D	1/31/2007						0.730 U	0.590 U	0.820 U	2.30		0.660 U	
MW6S	1/22/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	
MW-7	12/19/2001	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	
MW-7S	2/1/2007						0.730 U	0.600 U	0.830 U	0.740 U		0.670 U	
MW-8	12/17/2001	2.20 U	2.20 U	2.20 U	2.20 U		2.20 U	2.20 U	2.20 U	2.20 U		2.20 U	
MW-8S	2/2/2007						0.710 U	0.580 U	0.800 U	0.720 U		0.640 U	
MW-9	12/17/2001	2.00 U	2.00 U	2.00 U	2.00 U		2.00 U	2.00 U	2.00 U	2.00 U		2.00 U	
MW-9S	2/7/2007						0.650 U	0.530 U	0.740 U	0.660 U		0.590 U	

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Caprolactam	Carbazole	Chlorobenzene	Chrysene	Cresols, M & P	Dibenz (a,H) Anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Fluoranthene	Fluorene
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DUP 011217	12/17/2001		2.10 U		2.10 U	5.20 U	2.10 U	5.20 U	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	2.10 U
DUP020107	2/1/2007	0.350 U	0.410 U			1.40 U		0.390 U	0.440 U	0.370 U	0.670 U	0.640 U			
DUP020707	2/7/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW-10	12/18/2001		2.20 U		2.20 U	5.60 U	2.20 U	5.60 U	2.20 U	2.20 U	2.20 U	2.20 U		2.20 U	2.20 U
MW-10S	2/2/2007	0.330 U	0.380 U			1.30 U		0.360 U	0.410 U	0.350 U	0.620 U	0.600 U			
MW-11	12/18/2001		11.0 U	31.0 JN	11.0 U	22.2 J	11.0 U	28.0 U	11.0 U	11.0 U	11.0 U	11.0 U		11.0 U	11.0 U
MW-11D	1/30/2007	0.350 U	0.400 U			1.40 U		0.380 U	0.430 U	0.360 U	0.660 U	0.630 U			
MW-11S	1/30/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW-12	12/19/2001		8.80		0.630 J	8.10	2.10 U	46.6	2.10 U	2.10 U	2.10 U	2.10 U		14.9	55.4
MW-12S	2/6/2007	0.390 U	3.90			1.60 U		7.10	0.490 U	0.410 U	0.740 U	0.710 U		11.1	
MW-13	12/18/2001		13.4	5.40 JN	2.20 U	5.60 U	2.20 U	33.8	2.20 U	2.20 U	2.20 U	2.20 U		1.60 J	26.9
MW-13S	2/12/2007	0.350 U	15.6			1.40 U		16.2	0.430 U	0.360 U	0.660 U	0.630 U			
MW-14	12/18/2001		2.00 U		2.00 U	5.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U		2.00 U	2.00 U
MW14D	1/17/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW14S	1/18/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW-15	12/18/2001		1.40 J		2.10 U	1.70 J	2.10 U	1.90 J	2.10 U	2.10 U	2.10 U	2.10 U		3.40	3.20
MW-15S	2/8/2007	0.340 U	1.40 J			1.40 U		0.370 U	0.420 U	0.360 U	0.640 U	0.620 U			
MW-16	12/19/2001		2.10 U		2.10 U	5.00 J	2.10 U	5.30 U	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	2.10 U
MW16D	1/15/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW16S	1/18/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW-17	12/17/2001		2.60		2.00 U	81.1	2.00 U	5.10 U	2.00 U	2.00 U	2.00 U	2.00 U		1.00 J	2.00 U
MW17D	1/9/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW17S	1/10/2007	0.340 U	1.60 J			1.40 U		7.20 J	0.420 U	0.360 U	0.640 U	0.620 U			
MW-18	12/19/2001		9.80		2.10 U	6.60	2.10 U	5.30 U	2.10 U	2.10 U	2.10 U	2.10 U		0.540 J	0.800 J
MW18D	1/12/2007	0.330 U	0.380 U			1.30 U		0.360 U	0.410 U	0.340 U	0.620 U	0.590 U			
MW-18S	2/12/2007	0.320 U	6.20			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW-19	12/19/2001		2.10 U		2.10 U	11.8	2.10 U	5.30 U	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	2.10 U
MW-19S	2/7/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW-20	12/17/2001		1.70 J		2.10 U	5.30 U	2.10 U	5.30 U	2.10 U	2.10 U	2.10 U	2.10 U		2.10 U	2.10 U
MW20D	1/16/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW20S	1/16/2007	0.340 U	0.390 U			1.40 U		0.370 U	0.410 U	0.350 U	0.630 U	0.610 U			
MW-21D	1/19/2007	0.330 U	0.380 U			1.30 U		0.360 U	0.410 U	0.350 U	0.620 U	0.600 U			
MW-21S	1/19/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Caprolactam	Carbazole	Chlorobenzene	Chrysene	Cresols, M & P	Dibenz (a,H) Anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Diphenyl Ether	Fluoranthene	Fluorene
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
MW-22S	2/9/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW-23D	1/29/2007	0.340 U	0.390 U			1.40 U		0.370 U	0.420 U	0.350 U	0.640 U	0.610 U			
MW-23S	1/20/2007	0.340 U	0.390 U			1.40 U		0.370 U	0.410 U	0.350 U	0.630 U	0.610 U			
MW-24S	2/8/2007	0.340 U	143.			1.40 U		2.40 J	0.420 U	0.360 U	0.640 U	0.620 U	110. JN		
MW25D	1/23/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW-6	12/19/2001		11.0 U		11.0 U	27.0 U	11.0 U	27.0 U	11.0 U	11.0 U	11.0 U	11.0 U		11.0 U	11.0 U
MW-6D	1/31/2007	0.350 U	0.400 U			1.40 U		0.380 U	0.430 U	0.360 U	0.660 U	0.630 U			
MW6S	1/22/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			
MW-7	12/19/2001		2.10 U		2.10 U	5.30 U	2.10 U	0.740 J	2.10 U	2.10 U	2.10 U	2.10 U		0.570 J	2.10 U
MW-7S	2/1/2007	0.350 U	0.410 U			1.40 U		0.390 U	0.440 U	0.370 U	0.670 U	0.640 U			
MW-8	12/17/2001		2.20 U		2.20 U	5.50 U	2.20 U	5.50 U	2.20 U	2.20 U	2.20 U	2.20 U		2.20 U	2.20 U
MW-8S	2/2/2007	0.340 U	0.400 U			1.40 U		0.370 U	0.420 U	0.360 U	0.640 U	0.620 U			
MW-9	12/17/2001		2.00 U		2.00 U	5.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U		2.00 U	2.00 U
MW-9S	2/7/2007	0.320 U	0.360 U			1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U			

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Hexa-chlorobenzene µg/l	Hexa-chlorobutadiene µg/l	Hexachloro-cyclopentadiene µg/l	Hexa-chloroethane µg/l	Indene µg/l	Indeno (1,2,3-C,d) Pyrene µg/l	Isophorone µg/l	Methanone, 2-Naphthalenylphenyl- µg/l	Naphthalene µg/l	Nitrobenzene µg/l
DUP 011217	12/17/2001	2.10 U	2.10 U	21.0 U	5.20 U		2.10 U	2.10 U		2.10 U	2.10 U
DUP020107	2/1/2007		0.200 U	0.460 U	0.320 U			0.660 U			0.470 U
DUP020707	2/7/2007		0.180 U	0.410 U	0.280 U			0.590 U			0.420 U
MW-10	12/18/2001	2.20 U	2.20 U	22.0 U	5.60 U		2.20 U	2.20 U		2.20 U	2.20 U
MW-10S	2/2/2007		0.180 U	0.430 U	0.300 U			0.620 U			0.440 U
MW-11	12/18/2001	11.0 U	191.	110. U	28.0 U		11.0 U	11.0 U		119.	11.0 U
MW-11D	1/30/2007		2.80	0.450 U	0.310 U			0.650 U			0.470 U
MW-11S	1/30/2007		0.180 U	0.410 U	0.280 U			0.590 U			0.420 U
MW-12	12/19/2001	2.10 U	2.10 U	21.0 U	5.20 U		2.10 U	2.10 U		559.	2.10 U
MW-12S	2/6/2007		0.220 U	0.510 U	0.350 U			0.740 U		79.7	0.520 U
MW-13	12/18/2001	2.20 U	2.20 U	22.0 U	5.60 U		2.20 U	2.20 U		27.5	2.20 U
MW-13S	2/12/2007		0.190 U	0.450 U	0.310 U	37.0 JN		0.650 U			0.470 U
MW-14	12/18/2001	2.00 U	2.00 U	20.0 U	5.00 U		2.00 U	2.00 U		2.00 U	2.00 U
MW14D	1/17/2007		0.180 U	0.410 U	0.280 U			0.590 U			0.420 U
MW14S	1/18/2007		0.180 U	0.410 U	0.280 U			0.590 U			0.420 U
MW-15	12/18/2001	2.10 U	2.10 U	21.0 U	5.30 U		2.10 U	2.10 U		7.00	2.10 U
MW-15S	2/8/2007		0.190 U	0.440 UJ	0.310 U			0.640 U			0.460 U
MW-16	12/19/2001	2.10 U	2.10 U	21.0 U	5.30 U		2.10 U	2.10 U		2.10 U	2.10 U
MW16D	1/15/2007		0.180 U	0.410 U	0.280 U			0.590 U			0.420 U
MW16S	1/18/2007		0.180 U	0.410 U	0.280 U			0.590 U			0.420 U
MW-17	12/17/2001	2.00 U	2.00 U	20.0 U	5.10 U		2.00 U	2.00 U		87.4	64.5
MW17D	1/9/2007		0.180 U	0.410 UJ	0.280 UJ			0.590 U			0.420 U
MW17S	1/10/2007		0.190 U	0.440 UJ	0.310 UJ			0.640 U			55.0 J
MW-18	12/19/2001	2.10 U	2.10 U	21.0 U	5.30 U		2.10 U	2.10 U	19.0 JN	789.	2.10 U
MW18D	1/12/2007		0.180 U	0.420 U	0.290 U			0.610 U			0.440 U
MW-18S	2/12/2007		0.180 U	0.410 U	0.280 U			0.590 U		263.	0.420 U
MW-19	12/19/2001	2.10 U	2.10 U	21.0 U	5.30 U		2.10 U	2.10 U		2.10 U	2.10 U
MW-19S	2/7/2007		0.180 U	0.410 U	0.280 U			0.590 U			0.420 U
MW-20	12/17/2001	2.10 U	2.10 U	21.0 U	5.30 U		2.10 U	2.10 U		2.10 U	2.10 U
MW20D	1/16/2007		0.180 U	0.410 U	0.280 U			0.590 U			0.420 U
MW20S	1/16/2007		0.190 U	0.430 U	0.300 U			0.630 U			0.450 U
MW-21D	1/19/2007		0.180 U	0.430 U	0.300 U			0.620 U			0.440 U
MW-21S	1/19/2007		0.180 U	0.410 U	0.280 U			0.590 U		454.	0.420 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	Hexa-chlorobenzene µg/l	Hexa-chlorobutadiene µg/l	Hexachloro-cyclopentadiene µg/l	Hexa-chloroethane µg/l	Indene µg/l	Indeno (1,2,3-C,d) Pyrene µg/l	Isophorone µg/l	Methanone, 2-Naphthalenylphenyl- µg/l	Naphthalene µg/l	Nitrobenzene µg/l
MW-22S	2/9/2007		0.180 U	0.410 UJ	0.280 U			0.590 U			0.420 U
MW-23D	1/29/2007		0.190 U	0.440 U	0.300 U			0.630 U			0.450 U
MW-23S	1/20/2007		0.190 U	0.430 U	0.300 U			0.630 U			0.450 U
MW-24S	2/8/2007		0.190 U	0.440 UJ	0.310 U			0.640 U		561.	0.460 U
MW25D	1/23/2007		1.40 J	0.410 U	0.280 U			0.590 U			0.420 U
MW-6	12/19/2001	11.0 U	11.0 U	110. U	27.0 U		11.0 U	11.0 U		18.3	11.0 U
MW-6D	1/31/2007		0.190 U	0.450 U	0.310 U			0.650 U			0.470 U
MW6S	1/22/2007		0.180 U	0.410 U	0.280 U			0.590 U			0.420 U
MW-7	12/19/2001	2.10 U	2.10 U	21.0 U	5.30 U		2.10 U	2.10 U		2.10 U	2.10 U
MW-7S	2/1/2007		0.200 U	0.460 U	0.320 U			0.660 U			0.470 U
MW-8	12/17/2001	2.20 U	2.20 U	22.0 U	5.50 U		2.20 U	2.20 U		2.20 U	2.20 U
MW-8S	2/2/2007		0.190 U	0.440 U	0.310 U			0.640 U			0.460 U
MW-9	12/17/2001	2.00 U	2.00 U	20.0 U	5.00 U		2.00 U	2.00 U		2.00 U	2.00 U
MW-9S	2/7/2007		0.180 U	0.410 U	0.280 U			0.590 U			0.420 U

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	N-Nitroso-Di-N-Propylamine	N-Nitro-sodiphenylamine	Penta-chlorophenol	Phenanthrene	Phenol	Pyrene	Sulfur, Mol_ (s8)	Triethyl Phosphate
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
DUP 011217	12/17/2001	2.10 U	5.20 U	21.0 U	0.690 J	5.20 U	2.10 U	11.0 JN	
DUP020107	2/1/2007	0.530 U	0.580 U			0.560 U		800. JN	
DUP020707	2/7/2007	0.470 U	0.520 U			0.500 UJ		86.0 JN	
MW-10	12/18/2001	2.20 U	5.60 U	22.0 U	2.20 U	5.60 U	2.20 U		
MW-10S	2/2/2007	0.490 U	0.540 U			0.520 U			
MW-11	12/18/2001	11.0 U	28.0 U	110. U	11.0 U	5.10 J	11.0 U		
MW-11D	1/30/2007	0.520 U	0.570 U			0.550 U			
MW-11S	1/30/2007	0.470 U	0.520 U			0.500 U			
MW-12	12/19/2001	2.10 U	5.20 U	21.0 U	97.4	5.20 U	9.10		
MW-12S	2/6/2007	0.590 U	0.650 U		27.0	0.620 U		2,700 JN	
MW-13	12/18/2001	2.20 U	5.60 U	22.0 U	13.6	5.60 U	0.730 J		
MW-13S	2/12/2007	0.520 U	0.570 U			0.550 U			
MW-14	12/18/2001	2.00 U	5.00 U	20.0 U	2.00 U	5.00 U	2.00 U		
MW14D	1/17/2007	0.470 U	0.520 U			0.500 U			
MW14S	1/18/2007	0.470 U	0.520 U			0.500 U			
MW-15	12/18/2001	2.10 U	5.30 U	21.0 U	5.40	5.30 U	2.00 J		
MW-15S	2/8/2007	0.510 U	0.560 U			0.540 U		14.0 JN	
MW-16	12/19/2001	2.10 U	5.30 U	21.0 U	2.10 U	29.1	2.10 U		
MW16D	1/15/2007	0.470 U	0.520 U			0.500 U			
MW16S	1/18/2007	0.470 U	0.520 U			0.500 U		14.0 JN	
MW-17	12/17/2001	2.00 U	5.10 U	20.0 U	6.10	250.	0.550 J		
MW17D	1/9/2007	0.470 U	0.520 U			0.500 U			
MW17S	1/10/2007	0.510 U	0.560 U			0.540 U		77.0 JN	
MW-18	12/19/2001	2.10 U	5.30 U	21.0 U	2.20	2.90 J	2.10 U		
MW18D	1/12/2007	0.490 U	0.540 U			0.520 U			
MW-18S	2/12/2007	0.470 U	0.520 U			0.500 U			
MW-19	12/19/2001	2.10 U	5.30 U	21.0 U	0.660 J	5.30 U	2.10 U	330. JN	
MW-19S	2/7/2007	0.470 U	0.520 U			0.500 UJ		90.0 J	
MW-20	12/17/2001	2.10 U	5.30 U	21.0 U	0.710 J	5.30 U	2.10 U	10.0 JN	
MW20D	1/16/2007	0.470 U	0.520 U			0.500 U			
MW20S	1/16/2007	0.500 U	0.550 U			0.530 U			
MW-21D	1/19/2007	0.490 U	0.540 U			0.520 U			
MW-21S	1/19/2007	0.470 U	0.520 U			0.500 U			

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Date	N-Nitroso-Di-N-Propylamine µg/l	N-Nitro-sodiphenylamine µg/l	Penta-chlorophenol µg/l	Phenanthrene µg/l	Phenol µg/l	Pyrene µg/l	Sulfur, Mol_ (s8) µg/l	Triethyl Phosphate µg/l
MW-22S	2/9/2007	0.470 U	0.520 U			0.500 U			
MW-23D	1/29/2007	0.500 U	0.550 U			0.530 U			
MW-23S	1/20/2007	0.500 U	0.550 U			0.530 U			
MW-24S	2/8/2007	0.510 U	0.560 U			0.540 U		33.0 JN	
MW25D	1/23/2007	0.470 U	0.520 U			0.500 U			
MW-6	12/19/2001	11.0 U	27.0 U	110. U	11.0 U	27.0 U	11.0 U		
MW-6D	1/31/2007	0.520 U	0.570 U			0.550 U			
MW6S	1/22/2007	0.470 U	0.520 U			1.10 J		88.0 JN	
MW-7	12/19/2001	2.10 U	5.30 U	21.0 U	2.10 U	5.30 U	2.10 U	1,400 JN	4.70 JN
MW-7S	2/1/2007	0.530 U	0.580 U			0.560 U		1,000 JN	
MW-8	12/17/2001	2.20 U	5.50 U	22.0 U	2.20 U	5.50 U	2.20 U	27.0 JN	
MW-8S	2/2/2007	0.510 U	0.560 U			0.540 U			
MW-9	12/17/2001	2.00 U	5.00 U	20.0 U	2.00 U	5.00 U	2.00 U		
MW-9S	2/7/2007	0.470 U	0.520 U			0.500 U		85.0 JN	

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
DUP 011217	ACTD	12/17/2001	WG	SW8260B	Alkane	FD	MW-20	5.90	J
DUP 011217	ACTD	12/17/2001	WG	SW8260B	Alkane	FD	MW-20	15.0	J
DUP 011217	ACTD	12/17/2001	WG	SW8260B	Total TIC, Volatile	FD	MW-20	28.2	U
DUP 011217	ACTD	12/17/2001	WG	SW8260B	Unknown	FD	MW-20	7.30	J
DUP020707	ACTD	2/7/2007	WG	SW8260B	unknown (RT=3.92)	FD	MW-19S	11.0	J
MW-10	ACTD	12/18/2001	WG	SW8260B	Total TIC, Volatile	N			U
MW-11	ACTD	12/18/2001	WG	SW8260B	Total TIC, Volatile	N		15.0	U
MW-11S	ACTD	1/30/2007	WG	SW8260B	cycloalkane/alkene (RT=3.96)	N		75.0	J
MW-11S	ACTD	1/30/2007	WG	SW8260B	unknown (RT=7.53)	N		73.0	J
MW-12	ACTD	12/19/2001	WG	SW8260B	1,1'-Biphenyl, -Hexachloro(PCB)	N		41.0	JN
MW-12	ACTD	12/19/2001	WG	SW8260B	1,3-Dichlorobenzene	N		51.0	JN
MW-12	ACTD	12/19/2001	WG	SW8260B	C9H18O	N		6.20	J
MW-12	ACTD	12/19/2001	WG	SW8260B	Chloroaniline	N		6.40	J
MW-12	ACTD	12/19/2001	WG	SW8260B	Methanethiol	N		10.0	JN
MW-12	ACTD	12/19/2001	WG	SW8260B	Methyl Naphthalene	N		6.40	J
MW-12	ACTD	12/19/2001	WG	SW8260B	Total TIC, Volatile	N		287.	U
MW-12	ACTD	12/19/2001	WG	SW8260B	Trichlorobenzene	N		13.0	J
MW-12S	ACTD	2/6/2007	WG	SW8260B	Unknown (RT=5.07)	N		64.0	J
MW-12S	ACTD	2/6/2007	WG	SW8260B	Unknown (RT=5.4)	N		11.0	J
MW-13	ACTD	12/18/2001	WG	SW8260B	Total TIC, Volatile	N			U
MW-13S	ACTD	2/12/2007	WG	SW8260B	1H-indene-dihydro-methyl (RT=18.76)	N		6.60	J
MW-13S	ACTD	2/12/2007	WG	SW8260B	Benzofuran, methyl- (RT=19.04)	N		9.30	J
MW-13S	ACTD	2/12/2007	WG	SW8260B	Benzofuran, methyl- (RT=19.15)	N		15.0	J
MW-13S	ACTD	2/12/2007	WG	SW8260B	Benzothiophene (RT=20.54)	N		18.0	J
MW-13S	ACTD	2/12/2007	WG	SW8260B	C4 alkyl benzene (RT=18.98)	N		9.00	J
MW-13S	ACTD	2/12/2007	WG	SW8260B	C4 alkyl benzene (RT=19.53)	N		5.30	J
MW-13S	ACTD	2/12/2007	WG	SW8260B	dihydro-dimethylindene + C5 alkylbenzene	N		9.30	J
MW-14	ACTD	12/18/2001	WG	SW8260B	Total TIC, Volatile	N			U
MW-15	ACTD	12/18/2001	WG	SW8260B	Alkane	N		59.0	J
MW-15	ACTD	12/18/2001	WG	SW8260B	C2H6O	N		2,200	J
MW-15	ACTD	12/18/2001	WG	SW8260B	Total TIC, Volatile	N		4,160	U
MW-15S	ACTD	2/8/2007	WG	SW8260B	unknown (RT=4.91)	N		12.0	J
MW-16	ACTD	12/19/2001	WG	SW8260B	Alkane	N		20.0	J
MW-16	ACTD	12/19/2001	WG	SW8260B	Total TIC, Volatile	N		20.0	U
MW-17	ACTD	12/17/2001	WG	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		820.	J
MW-17	ACTD	12/17/2001	WG	SW8260B	C9H18O	N		170.	J
MW-17	ACTD	12/17/2001	WG	SW8260B	Cycloalkane/Alkene	N		190.	J
MW-17	ACTD	12/17/2001	WG	SW8260B	Cycloalkane/Alkene	N		170.	J
MW-17	ACTD	12/17/2001	WG	SW8260B	Total TIC, Volatile	N		1,930	U
MW17S	ACTD	1/10/2007	WG	SW8260B	alcohols (RT=15.73)	N		120.	J
MW17S	ACTD	1/10/2007	WG	SW8260B	alkene (RT=4.09)	N		59.0	J
MW17S	ACTD	1/10/2007	WG	SW8260B	alkene (RT=4.26)	N		56.0	J
MW17S	ACTD	1/10/2007	WG	SW8260B	Benzenamine, dichloro- (RT=20.72)	N		5.70	J
MW17S	ACTD	1/10/2007	WG	SW8260B	Chloroaniline (RT=18.13)	N		6.40	J
MW17S	ACTD	1/10/2007	WG	SW8260B	ketones (RT=15.35)	N		13.0	J
MW17S	ACTD	1/10/2007	WG	SW8260B	unknown (RT=3.36)	N		5.30	J
MW-18	ACTD	12/19/2001	WG	SW8260B	1,1'-Biphenyl, -Hexachloro(PCB)	N		65.0	J
MW-18	ACTD	12/19/2001	WG	SW8260B	Total TIC, Volatile	N		645.	U
MW-19	ACTD	12/19/2001	WG	SW8260B	C4H9CLO2	N		16.0	J
MW-19	ACTD	12/19/2001	WG	SW8260B	Chloroaniline	N		26.0	J
MW-19	ACTD	12/19/2001	WG	SW8260B	Methyl Naphthalene	N		6.50	J

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
MW-19	ACTD	12/19/2001	WG	SW8260B	Methyl Naphthalene	N		5.80	J
MW-19	ACTD	12/19/2001	WG	SW8260B	Total TIC, Volatile	N		97.3	U
MW-19S	ACTD	2/7/2007	WG	SW8260B	unknown (RT=3.92)	N		11.0	J
MW-20	ACTD	12/17/2001	WG	SW8260B	Alkane	N		5.60	J
MW-20	ACTD	12/17/2001	WG	SW8260B	Alkane	N		15.0	J
MW-20	ACTD	12/17/2001	WG	SW8260B	Alkane	N		6.90	J
MW-20	ACTD	12/17/2001	WG	SW8260B	Total TIC, Volatile	N		27.5	U
MW-22S	ACTD	2/9/2007	WG	SW8260B	unknown (RT=4.06)	N		13.0	J
MW-24S	ACTD	2/8/2007	WG	SW8260B	Benzene, chloro-dimethyl- (RT=18.41)	N		150.	J
MW-6	ACTD	12/19/2001	WG	SW8260B	Total TIC, Volatile	N			U
MW-7	ACTD	12/19/2001	WG	SW8260B	TBA-D9	N		6.10	JN
MW-7	ACTD	12/19/2001	WG	SW8260B	Total TIC, Volatile	N		6.10	U
MW-8S	ACTD	2/2/2007	WG	SW8260B	unknown (RT=3.92)	N		22.0	J
MW-9	ACTD	12/17/2001	WG	SW8260B	Total TIC, Volatile	N			U
DUP 011217	ACTD	12/17/2001	WG	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	FD	MW-20	7.20	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	FD	MW-20	8.70	JB
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Alkane	FD	MW-20	4.50	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Alkane	FD	MW-20	32.0	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Alkane	FD	MW-20	5.20	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Benzenamine, Dichloro	FD	MW-20	4.30	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Chloroaniline	FD	MW-20	37.0	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Ethane, 1,1'-Oxybis[2-Methoxy-	FD	MW-20	5.60	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Phenol, P-Tert-Butyl-	FD	MW-20	55.0	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Phenol, -Tetramethylbutyl	FD	MW-20	5.80	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	System Artifact/Aldol-Condensation	FD	MW-20	19.0	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Total TIC, Semi-volatile	FD	MW-20	367.	U
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Unknown	FD	MW-20	15.0	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Unknown	FD	MW-20	4.30	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Unknown	FD	MW-20	32.0	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Unknown	FD	MW-20	13.0	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Unknown	FD	MW-20	6.30	J
DUP 011217	ACTD	12/17/2001	WG	SW8270C	Unknown	FD	MW-20	110.	J
DUP020107	ACTD	2/1/2007	WG	SW8270C	Sulfur (RT=14.26)	FD	MW-7S	12.0	J
DUP020107	ACTD	2/1/2007	WG	SW8270C	Sulfur, (RT=11.22)	FD	MW-7S	17.0	J
DUP020107	ACTD	2/1/2007	WG	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	FD	MW-7S	23.0	J
DUP020707	ACTD	2/7/2007	WG	SW8270C	Internal standard added for SIM test (RT	FD	MW-19S	4.50	JB
DUP020707	ACTD	2/7/2007	WG	SW8270C	Sulfur (RT=16.6)	FD	MW-19S	11.0	J
DUP020707	ACTD	2/7/2007	WG	SW8270C	Sulfur (RT=17.08)	FD	MW-19S	58.0	J
DUP020707	ACTD	2/7/2007	WG	SW8270C	Sulfur (RT=17.19)	FD	MW-19S	14.0	J
DUP020707	ACTD	2/7/2007	WG	SW8270C	System Artifact/Aldol-Condensation (RT=4	FD	MW-19S	15.0	J
DUP020707	ACTD	2/7/2007	WG	SW8270C	unknown (RT=3.59)	FD	MW-19S	110.	J
DUP020707	ACTD	2/7/2007	WG	SW8270C	unknown (RT=7.19)	FD	MW-19S	680.	J
DUP020707	ACTD	2/7/2007	WG	SW8270C	unknown (RT=7.28)	FD	MW-19S	5.60	J
MW-10	ACTD	12/18/2001	WG	SW8270C	Total TIC, Semi-volatile	N			U
MW-10S	ACTD	2/2/2007	WG	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		21.0	J
MW-11	ACTD	12/18/2001	WG	SW8270C	Benzenamine, Dichloro	N		23.0	J
MW-11	ACTD	12/18/2001	WG	SW8270C	Total TIC, Semi-volatile	N		54.0	U
MW-11D	ACTD	1/30/2007	WG	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		19.0	J
MW-11D	ACTD	1/30/2007	WG	SW8270C	unknown (RT=16.26)	N		6.60	J
MW-11S	ACTD	1/30/2007	WG	SW8270C	Benzenamine,-dichloro- (RT=10.48)	N		4.90	J
MW-11S	ACTD	1/30/2007	WG	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		15.0	J

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
MW-11S	ACTD	1/30/2007	WG	SW8270C	unknown (RT=24.77)	N		110.	J
MW-11S	ACTD	1/30/2007	WG	SW8270C	unknown (RT=3.05)	N		7.70	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Alkane	N		16.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Alkane	N		10.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Alkane	N		29.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Alkane	N		40.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Alkane	N		15.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Alkane	N		130.	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Alkane	N		9.70	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Alkane	N		130.	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Benzenamine, Dichloro	N		66.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Benzenamine, Dichloro	N		52.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Benzenamine, Dichloro	N		210.	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Benzenamine, Dichloro	N		10.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	C15H12	N		9.70	J
MW-12	ACTD	12/19/2001	WG	SW8270C	C4 Alkyl Benzene	N		14.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Naphthalene Dimethyl	N		19.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Naphthalene Dimethyl	N		9.70	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Naphthalene Dimethyl	N		43.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Phenol Nonyl	N		32.0	J
MW-12	ACTD	12/19/2001	WG	SW8270C	Total TIC, Semi-volatile	N		974.	U
MW-12	ACTD	12/19/2001	WG	SW8270C	Unknown	N		17.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Benzenamine, -chloro--methyl- (RT=10.17)	N		32.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Benzenamine, -dichloro- (RT=10.72)	N		150.	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Benzenamine, -dichloro- (RT=11)	N		64.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Benzenamine, -dichloro- (RT=12.02)	N		31.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Cycloalkane/Alkene (RT=7.84)	N		1,100	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Internal standard added for SIM test (RT	N		53.0	JB
MW-12S	ACTD	2/6/2007	WG	SW8270C	Phenol, -(-tetramethylbutyl)- (RT=14.13)	N		33.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		50.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		26.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Unknown (RT=10.07)	N		240.	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Unknown (RT=10.24)	N		29.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Unknown (RT=13.27)	N		24.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Unknown (RT=13.46)	N		35.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Unknown (RT=13.75)	N		26.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Unknown (RT=14.79)	N		100.	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Unknown (RT=15.37)	N		23.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Unknown (RT=15.68)	N		40.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Unknown (RT=15.86)	N		37.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Unknown (RT=24.88)	N		25.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C	Unknown (RT=9.83)	N		36.0	J
MW-12S	ACTD	2/6/2007	WG	SW8270C		N		67.0	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		13.0	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		6.90	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		10.0	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		75.0	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		280.	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		9.20	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		4.50	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		78.0	J

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
MW-13	ACTD	12/18/2001	WG	SW8270C		N		7.60	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		5.70	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		4.60	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		631.	U
MW-13	ACTD	12/18/2001	WG	SW8270C		N		9.30	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		28.0	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		6.60	J
MW-13	ACTD	12/18/2001	WG	SW8270C		N		19.0	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		130.	JN
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		5.50	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		200.	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		49.0	JN
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		7.30	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		6.50	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		17.0	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		5.90	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		2,100	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		5.30	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		4.80	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		7.70	JN
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		11.0	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		48.0	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		4.80	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		22.0	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		8.10	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		8.10	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		6.70	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		13.0	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		9.30	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		460.	J
MW-13S	ACTD	2/12/2007	WG	SW8270C		N		32.0	J
MW-14	ACTD	12/18/2001	WG	SW8270C		N			U
MW14D	ACTD	1/17/2007	WG	SW8270C		N		9.60	J
MW14D	ACTD	1/17/2007	WG	SW8270C		N		15.0	J
MW14S	ACTD	1/18/2007	WG	SW8270C		N		13.0	J
MW-15	ACTD	12/18/2001	WG	SW8270C		N		9.20	J
MW-15	ACTD	12/18/2001	WG	SW8270C		N		374.	U
MW-15	ACTD	12/18/2001	WG	SW8270C		N		45.0	J
MW-15	ACTD	12/18/2001	WG	SW8270C		N		320.	J
MW-15S	ACTD	2/8/2007	WG	SW8270C		N		7.40	J
MW-15S	ACTD	2/8/2007	WG	SW8270C		N		20.0	J
MW-15S	ACTD	2/8/2007	WG	SW8270C		N		7.20	J
MW-15S	ACTD	2/8/2007	WG	SW8270C		N		8.30	J
MW-16	ACTD	12/19/2001	WG	SW8270C		N		8.20	J
MW-16	ACTD	12/19/2001	WG	SW8270C		N		5.60	JB
MW-16	ACTD	12/19/2001	WG	SW8270C		N		11.0	J
MW-16	ACTD	12/19/2001	WG	SW8270C		N		10.0	J
MW-16	ACTD	12/19/2001	WG	SW8270C		N		6.10	J
MW-16	ACTD	12/19/2001	WG	SW8270C		N		31.0	J
MW-16	ACTD	12/19/2001	WG	SW8270C		N		821.	U
MW-16	ACTD	12/19/2001	WG	SW8270C		N		430.	J

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
MW-16	ACTD	12/19/2001	WG	SW8270C		N		13.0	J
MW-16	ACTD	12/19/2001	WG	SW8270C		N		19.0	J
MW-16	ACTD	12/19/2001	WG	SW8270C		N		85.0	J
MW-16	ACTD	12/19/2001	WG	SW8270C		N		52.0	J
MW-16	ACTD	12/19/2001	WG	SW8270C		N		4.60	J
MW16D	ACTD	1/15/2007	WG	SW8270C		N		5.90	J
MW16D	ACTD	1/15/2007	WG	SW8270C		N		16.0	J
MW16S	ACTD	1/18/2007	WG	SW8270C		N		140.	J
MW16S	ACTD	1/18/2007	WG	SW8270C		N		300.	J
MW16S	ACTD	1/18/2007	WG	SW8270C		N		60.0	J
MW16S	ACTD	1/18/2007	WG	SW8270C		N		5.10	J
MW16S	ACTD	1/18/2007	WG	SW8270C		N		14.0	J
MW16S	ACTD	1/18/2007	WG	SW8270C		N		5.40	J
MW16S	ACTD	1/18/2007	WG	SW8270C		N		16.0	J
MW16S	ACTD	1/18/2007	WG	SW8270C		N		18.0	J
MW16S	ACTD	1/18/2007	WG	SW8270C		N		17.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		23.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		36.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		17.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		7.40	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		6.80	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		16.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		26.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		4.10	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		18.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		24.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		36.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		39.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		30.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		370.	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		7.80	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		460.	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		11.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		4.00	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		4.10	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		84.0	J
MW17D	ACTD	1/9/2007	WG	SW8270C		N		4.50	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		560.	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		92.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		47.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		62.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		1,700	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		63.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		310.	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		170.	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		51.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		75.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		140.	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		210.	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		160.	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		77.0	J

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
MW17S	ACTD	1/10/2007	WG	SW8270C		N		86.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		52.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		99.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		47.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		130.	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		43.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		84.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		33.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		34.0	J
MW17S	ACTD	1/10/2007	WG	SW8270C		N		110.	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		8.40	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		12.0	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		6.90	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		18.0	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		12.0	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		7.00	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		18.0	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		14.0	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		7.50	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		20.0	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		6.80	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		17.0	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		383.	U
MW-18	ACTD	12/19/2001	WG	SW8270C		N		8.30	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		12.0	J
MW-18	ACTD	12/19/2001	WG	SW8270C		N		8.50	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		13.0	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		23.0	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		10.0	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		11.0	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		11.0	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		13.0	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		11.0	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		4.40	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		5.00	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		14.0	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		16.0	J
MW18D	ACTD	1/12/2007	WG	SW8270C		N		14.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		33.0	JN
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		8.20	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		7.30	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		7.70	JN
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		35.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		14.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		18.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		7.80	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		7.80	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		14.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		10.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		22.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		680.	JN

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		22.0	JN
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		48.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		10.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		11.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		7.50	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		16.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		8.60	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		9.50	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		16.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		7.70	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		32.0	J
MW-18S	ACTD	2/12/2007	WG	SW8270C		N		20.0	J
MW-19	ACTD	12/19/2001	WG	SW8270C		N		4.50	J
MW-19	ACTD	12/19/2001	WG	SW8270C		N		12.0	J
MW-19	ACTD	12/19/2001	WG	SW8270C		N		19.0	J
MW-19	ACTD	12/19/2001	WG	SW8270C		N		4.50	J
MW-19	ACTD	12/19/2001	WG	SW8270C		N		17.0	J
MW-19	ACTD	12/19/2001	WG	SW8270C		N		8.10	J
MW-19	ACTD	12/19/2001	WG	SW8270C		N		15.0	J
MW-19	ACTD	12/19/2001	WG	SW8270C		N		545.	U
MW-19	ACTD	12/19/2001	WG	SW8270C		N		130.	J
MW-19S	ACTD	2/7/2007	WG	SW8270C		N		11.0	J
MW-19S	ACTD	2/7/2007	WG	SW8270C		N		38.0	J
MW-19S	ACTD	2/7/2007	WG	SW8270C		N		19.0	J
MW-19S	ACTD	2/7/2007	WG	SW8270C		N		140.	J
MW-19S	ACTD	2/7/2007	WG	SW8270C		N		20.0	J
MW-19S	ACTD	2/7/2007	WG	SW8270C		N		6.00	J
MW-19S	ACTD	2/7/2007	WG	SW8270C		N		1,300	J
MW-19S	ACTD	2/7/2007	WG	SW8270C		N		6.90	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		9.60	JB
MW-20	ACTD	12/17/2001	WG	SW8270C		N		40.0	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		41.0	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		4.50	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		16.0	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		6.30	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		6.00	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		5.50	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		14.0	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		9.60	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		11.0	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		7.00	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		34.0	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		5.10	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		6.90	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		78.0	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		120.	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		20.0	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		472.	U
MW-20	ACTD	12/17/2001	WG	SW8270C		N		24.0	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		4.80	J
MW-20	ACTD	12/17/2001	WG	SW8270C		N		7.80	J

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
MW20D	ACTD	1/16/2007	WG	SW8270C		N		28.0	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		48.0	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		29.0	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		11.0	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		100.	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		47.0	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		50.0	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		74.0	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		73.0	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		360.	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		210.	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		17.0	J
MW20D	ACTD	1/16/2007	WG	SW8270C		N		7.20	J
MW20S	ACTD	1/16/2007	WG	SW8270C		N		4.50	J
MW20S	ACTD	1/16/2007	WG	SW8270C		N		5.70	J
MW20S	ACTD	1/16/2007	WG	SW8270C		N		16.0	J
MW20S	ACTD	1/16/2007	WG	SW8270C		N		11.0	J
MW-21D	ACTD	1/19/2007	WG	SW8270C		N		5.00	JB
MW-21D	ACTD	1/19/2007	WG	SW8270C		N		19.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		35.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		48.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		490.	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		34.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		61.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		76.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		53.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		32.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		1,500	JB
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		82.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		120.	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		32.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		170.	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		56.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		490.	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		40.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		36.0	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		270.	J
MW-21S	ACTD	1/19/2007	WG	SW8270C		N		48.0	J
MW-22S	ACTD	2/9/2007	WG	SW8270C		N		4.90	J
MW-22S	ACTD	2/9/2007	WG	SW8270C		N		12.0	J
MW-23D	ACTD	1/29/2007	WG	SW8270C		N		27.0	J
MW-23D	ACTD	1/29/2007	WG	SW8270C		N		19.0	J
MW-23S	ACTD	1/20/2007	WG	SW8270C		N		13.0	J
MW-23S	ACTD	1/20/2007	WG	SW8270C		N		13.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		17.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		20.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		37.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		30.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		42.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		35.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		21.0	J

APPENDIX J-4
DETECTED CONSTITUENTS IN SOILS
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		37.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		18.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		42.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		42.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		19.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		45.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		70.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		50.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		26.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		41.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		18.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		15.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		43.0	J
MW-24S	ACTD	2/8/2007	WG	SW8270C		N		21.0	J
MW25D	ACTD	1/23/2007	WG	SW8270C		N		7.30	J
MW25D	ACTD	1/23/2007	WG	SW8270C		N		18.0	J
MW-6	ACTD	12/19/2001	WG	SW8270C		N			U
MW-6D	ACTD	1/31/2007	WG	SW8270C		N		4.90	J
MW-6D	ACTD	1/31/2007	WG	SW8270C		N		8.70	J
MW-6D	ACTD	1/31/2007	WG	SW8270C		N		9.90	J
MW-6D	ACTD	1/31/2007	WG	SW8270C		N		8.20	J
MW-6D	ACTD	1/31/2007	WG	SW8270C		N		6.30	J
MW-6D	ACTD	1/31/2007	WG	SW8270C		N		18.0	J
MW6S	ACTD	1/22/2007	WG	SW8270C		N		7.20	J
MW-7	ACTD	12/19/2001	WG	SW8270C		N		28.0	J
MW-7	ACTD	12/19/2001	WG	SW8270C		N		6.10	J
MW-7	ACTD	12/19/2001	WG	SW8270C		N		9.20	J
MW-7	ACTD	12/19/2001	WG	SW8270C		N		1,430	U
MW-7S	ACTD	2/1/2007	WG	SW8270C		N		19.0	J
MW-7S	ACTD	2/1/2007	WG	SW8270C		N		19.0	J
MW-7S	ACTD	2/1/2007	WG	SW8270C		N		5.90	J
MW-7S	ACTD	2/1/2007	WG	SW8270C		N		19.0	J
MW-7S	ACTD	2/1/2007	WG	SW8270C		N		4.50	J
MW-8	ACTD	12/17/2001	WG	SW8270C		N		22.0	JB
MW-8	ACTD	12/17/2001	WG	SW8270C		N		11.0	J
MW-8	ACTD	12/17/2001	WG	SW8270C		N		5.00	J
MW-8	ACTD	12/17/2001	WG	SW8270C		N		43.0	U
MW-8S	ACTD	2/2/2007	WG	SW8270C		N		26.0	J
MW-9	ACTD	12/17/2001	WG	SW8270C		N		4.20	J
MW-9	ACTD	12/17/2001	WG	SW8270C		N		4.30	J
MW-9	ACTD	12/17/2001	WG	SW8270C		N			U
MW-9S	ACTD	2/7/2007	WG	SW8270C		N		4.80	J
MW-9S	ACTD	2/7/2007	WG	SW8270C		N		18.0	J
MW-9S	ACTD	2/7/2007	WG	SW8270C		N		4.60	J

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC					69.0			40				
Saltwater CCC					36.0			8.8				
DUP022307	'0-0	02/23/07										
SW-1	'0-0	08/20/01	460.	5.00 U	*61.3*	520.	5.00 U	4.00 U	240,000		10.0 U	50.0 U
SW-2	'0-0	08/20/01	425.	5.00 U	114.	449.	5.00 U	4.00 U	265,000		10.0 U	50.0 U
SW-3	'0-0	08/20/01	1,920	5.00 U	*59.3*	2,200	5.00 U	*25.0*	350,000		11.0	50.0 U
SW-4	'0-0	08/20/01	2,370	5.00 U	*44.7*	2,920	5.00 U	*36.4*	382,000		15.8	50.0 U
SW-5	'0-0	08/20/01	1,570	5.00 U	*39.8*	2,230	5.00 U	*16.8*	301,000		10.2	50.0 U
SW-6	'0-0	11/20/01	600.	5.00 U	5.00 U	200. U	5.00 U	4.00 U	286,000		10.0 U	50.0 U
SW-A	'0-0.16	09/25/06	560.	6.00 U	150. J	439.	1.00 U	4.00 U	136,000	50.0 U	13.1	50.0 U
SW-A	'0-0.16	10/05/06										
SW-B	'0-0.16	09/25/06	737.	6.00 U	28.7 J	588.	1.00 U	4.00 U	226,000	50.0 U	10.0 U	50.0 U
SW-B	'0-0.16	10/05/06										
SW-B-DUP	'0-0.16	09/25/06	838.	6.00 U	*40.3 J*	597.	1.00 U	4.00 U	232,000	50.0 U	10.0 U	50.0 U
SW-C	'0-0.16	09/25/06	266.	6.00 U	9.20 J	289.	1.00 U	4.00 U	241,000	50.0 U	10.0 U	50.0 U
SW-C	'0-0.16	10/05/06										
SW-C-DUP	'0-0.16	10/05/06										
SW-D	'0-0.16	09/25/06	200. U	6.00 U	2.00 U	200.	1.00 U	4.00 U	237,000	50.0 U	10.0 U	50.0 U
SW-D	'0-0.16	10/05/06										
SW-E	'0-0.16	09/25/06	200. U	6.00 U	3.20 J	200. U	1.00 U	4.00 U	240,000	50.0 U	10.0 U	50.0 U
SW-E	'0-0.16	10/05/06										
SW-ERRT	'0-0	02/22/07										
SW-ERRT-F	'0-0	2/22/2007										
SW-F	'0-0.16	9/25/2006	200. U	6.00 U	4.00 J	200. U	1.00 U	4.00 U	233,000	50.0 U	10.0 U	50.0 U
SW-F	'0-0.16	10/5/2006										
SW-G	'0-0.16	9/25/2006	200. U	6.00 U	2.00 U	200. U	1.00 U	4.00 U	197,000	50.0 U	10.0 U	50.0 U
SW-G	'0-0.16	10/5/2006										
SW-VB-02-23-07-0700	'0-0	2/23/2007										
SW-VB-02-23-07-0700-F	'0-0	2/23/2007										
SW-VB-02-23-07-0900	'0-0	2/23/2007										
SW-VB-02-23-07-0900-F	'0-0	2/23/2007										
SW-VB-02-23-07-1100	'0-0	2/23/2007										
SW-VB-02-23-07-1100-F	'0-0	2/23/2007										
SW-VB-02-23-07-1300	'0-0	2/23/2007										

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SW-VB-02-23-07-1300-F	'0-0	2/23/2007										
SW-VB-02-23-07-1500	'0-0	2/23/2007										
SW-VB-02-23-07-1500-F	'0-0	2/23/2007										
SW-VB-2-22-07-1400	'0-0	2/22/2007										
SW-VB-2-22-07-1400-F	'0-0	2/22/2007										
SW-VB-2-22-07-1600	'0-0	2/22/2007										
SW-VB-2-22-07-1600-F	'0-0	2/22/2007										
SW-VB-2-22-07-1800	'0-0	2/22/2007										
SW-VB-2-22-07-1800-F	'0-0	2/22/2007										
SW-VB-2-23-07-1700	'0-0	2/23/2007										
SW-VB-2-23-07-1700-F	'0-0	2/23/2007										
SW-VB-2-23-07-1900	'0-0	2/23/2007										
SW-VB-2-23-07-1900-F	'0-0	2/23/2007										
SW-WRRT	'0-0	2/22/2007										
SW-WRRT-F	'0-0	2/22/2007										

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Methyl Mercury	Nickel	Potassium
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC			4.8		210			1.8		74	
Saltwater CCC			3.1		8.1			0.94		8.2	
DUP022307	'0-0	02/23/07						0.200 U			
SW-1	'0-0	08/20/01	25.0 U	2,040	*10.4*	384,000	283.	12.1		40.0 U	187,000
SW-2	'0-0	08/20/01	25.0 U	3,090	*12.1*	379,000	331.	8.60		40.0 U	186,000
SW-3	'0-0	08/20/01	27.3	5,360	*69.2*	686,000	245.	12.3		40.0 U	289,000
SW-4	'0-0	08/20/01	38.4	5,860	*84.3*	711,000	233.	27.0		40.0 U	293,000
SW-5	'0-0	08/20/01	25.0 U	3,930	*39.8*	630,000	495.	18.1		40.0 U	254,000
SW-6	'0-0	11/20/01	25.0 U	418.	3.00 U	974,000	53.0	0.200 U		40.0 U	350,000
SW-A	'0-0.16	09/25/06	25.0 U	3,920	*20.1*	108,000	230.	5.80		40.0 U	75,400 J
SW-A	'0-0.16	10/05/06							0.0195		
SW-B	'0-0.16	09/25/06	25.0 U	1,890	*17.4*	610,000	136.	5.50 J		40.0 U	312,000 J
SW-B	'0-0.16	10/05/06							0.00509		
SW-B-DUP	'0-0.16	09/25/06	25.0 U	2,060	*18.5*	610,000	140.	10.9 J	0.00755 J	40.0 U	298,000 J
SW-C	'0-0.16	09/25/06	25.0 U	333.	3.00 U	749,000	83.1	1.90		40.0 U	364,000 J
SW-C	'0-0.16	10/05/06							0.00107		
SW-C-DUP	'0-0.16	10/05/06							0.00110		
SW-D	'0-0.16	09/25/06	25.0 U	105.	3.00 U	752,000	63.1	*1.60*		40.0 U	365,000 J
SW-D	'0-0.16	10/05/06							0.00103		
SW-E	'0-0.16	09/25/06	25.0 U	100. U	3.00 U	784,000	51.6	*1.30*		40.0 U	379,000 J
SW-E	'0-0.16	10/05/06							0.000657		
SW-ERRT	'0-0	02/22/07						*1.40*			
SW-ERRT-F	'0-0	2/22/2007						0.200 U			
SW-F	'0-0.16	9/25/2006	25.0 U	100. U	3.00 U	729,000	49.7	0.240		40.0 U	364,000 J
SW-F	'0-0.16	10/5/2006							0.000738		
SW-G	'0-0.16	9/25/2006	25.0 U	176.	3.00 U	593,000	51.1	0.260		40.0 U	288,000 J
SW-G	'0-0.16	10/5/2006							0.000102		
SW-VB-02-23-07-0700	'0-0	2/23/2007						2.00 J			
SW-VB-02-23-07-0700-F	'0-0	2/23/2007						0.200 U			
SW-VB-02-23-07-0900	'0-0	2/23/2007						20.3 J			
SW-VB-02-23-07-0900-F	'0-0	2/23/2007						0.200 U			
SW-VB-02-23-07-1100	'0-0	2/23/2007						0.320 J			
SW-VB-02-23-07-1100-F	'0-0	2/23/2007						0.200 U			
SW-VB-02-23-07-1300	'0-0	2/23/2007						0.630 J			

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Methyl Mercury	Nickel	Potassium
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SW-VB-02-23-07-1300-F	'0-0	2/23/2007						0.200 U			
SW-VB-02-23-07-1500	'0-0	2/23/2007						*1.70 J*			
SW-VB-02-23-07-1500-F	'0-0	2/23/2007						0.200 U			
SW-VB-2-22-07-1400	'0-0	2/22/2007						0.580 J			
SW-VB-2-22-07-1400-F	'0-0	2/22/2007						0.200 U			
SW-VB-2-22-07-1600	'0-0	2/22/2007						19.3 J			
SW-VB-2-22-07-1600-F	'0-0	2/22/2007						0.200 U			
SW-VB-2-22-07-1800	'0-0	2/22/2007						11.9			
SW-VB-2-22-07-1800-F	'0-0	2/22/2007						0.200 U			
SW-VB-2-23-07-1700	'0-0	2/23/2007						29.4			
SW-VB-2-23-07-1700-F	'0-0	2/23/2007						0.200 U			
SW-VB-2-23-07-1900	'0-0	2/23/2007						2.20			
SW-VB-2-23-07-1900-F	'0-0	2/23/2007						0.200 U			
SW-WRRT	'0-0	2/22/2007						224.			
SW-WRRT-F	'0-0	2/22/2007						2.10			

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Selenium	Silver	Sodium	Thallium	THg	Vanadium	Zinc
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC			290	1.9					90
Saltwater CCC			71						81
DUP022307	'0-0	02/23/07							
SW-1	'0-0	08/20/01	5.00 U	10.0 U	3,480,000 J	10.0 U		50.0 U	54.4
SW-2	'0-0	08/20/01	5.00 U	10.0 U	3,440,000 J	10.0 U		50.0 U	76.4
SW-3	'0-0	08/20/01	5.00 U	10.0 U	5,490,000 J	10.0 U		50.0 U	785.
SW-4	'0-0	08/20/01	6.20	10.0 U	5,760,000 J	10.0 U		50.0 U	1,060
SW-5	'0-0	08/20/01	5.50	10.0 U	4,880,000 J	10.0 U		50.0 U	513.
SW-6	'0-0	11/20/01	5.00 U	10.0 U	7,340,000	10.0 U		50.0 U	34.8
SW-A	'0-0.16	09/25/06	10.0 U	10.0 U	1,060,000	1.00 U		50.0 U	41.5
SW-A	'0-0.16	10/05/06					11.9		
SW-B	'0-0.16	09/25/06	10.0 U	10.0 U	4,130,000	1.00 U		50.0 U	*89.0*
SW-B	'0-0.16	10/05/06					3.34		
SW-B-DUP	'0-0.16	09/25/06	10.0 U	10.0 U	4,110,000	1.00 U	6.62 J	50.0 U	*89.1*
SW-C	'0-0.16	09/25/06	10.0 U	10.0 U	5,590,000	1.00 U		50.0 U	31.7
SW-C	'0-0.16	10/05/06					1.18		
SW-C-DUP	'0-0.16	10/05/06					1.12		
SW-D	'0-0.16	09/25/06	10.0 U	10.0 U	5,260,000	1.00 U		50.0 U	20.0 U
SW-D	'0-0.16	10/05/06					1.90		
SW-E	'0-0.16	09/25/06	10.0 U	10.0 U	5,230,000	1.00 U		50.0 U	20.0 U
SW-E	'0-0.16	10/05/06					1.27		
SW-ERRT	'0-0	02/22/07							
SW-ERRT-F	'0-0	2/22/2007							
SW-F	'0-0.16	9/25/2006	10.0 U	10.0 U	4,900,000	1.00 U		50.0 U	20.0 U
SW-F	'0-0.16	10/5/2006					1.26		
SW-G	'0-0.16	9/25/2006	10.0 U	10.0 U	4,960,000	1.00 U		50.0 U	35.4
SW-G	'0-0.16	10/5/2006					0.0872		
SW-VB-02-23-07-0700	'0-0	2/23/2007							
SW-VB-02-23-07-0700-F	'0-0	2/23/2007							
SW-VB-02-23-07-0900	'0-0	2/23/2007							
SW-VB-02-23-07-0900-F	'0-0	2/23/2007							
SW-VB-02-23-07-1100	'0-0	2/23/2007							
SW-VB-02-23-07-1100-F	'0-0	2/23/2007							
SW-VB-02-23-07-1300	'0-0	2/23/2007							

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Selenium	Silver	Sodium	Thallium	THg	Vanadium	Zinc
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SW-VB-02-23-07-1300-F	'0-0	2/23/2007							
SW-VB-02-23-07-1500	'0-0	2/23/2007							
SW-VB-02-23-07-1500-F	'0-0	2/23/2007							
SW-VB-2-22-07-1400	'0-0	2/22/2007							
SW-VB-2-22-07-1400-F	'0-0	2/22/2007							
SW-VB-2-22-07-1600	'0-0	2/22/2007							
SW-VB-2-22-07-1600-F	'0-0	2/22/2007							
SW-VB-2-22-07-1800	'0-0	2/22/2007							
SW-VB-2-22-07-1800-F	'0-0	2/22/2007							
SW-VB-2-23-07-1700	'0-0	2/23/2007							
SW-VB-2-23-07-1700-F	'0-0	2/23/2007							
SW-VB-2-23-07-1900	'0-0	2/23/2007							
SW-VB-2-23-07-1900-F	'0-0	2/23/2007							
SW-WRRT	'0-0	2/22/2007							
SW-WRRT-F	'0-0	2/22/2007							

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin Aldehyde	Endrin Ketone
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC			1.3					0.16	0.71					
Saltwater CCC									0.0019					
SW-1	'0-0	8/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U
SW-2	'0-0	8/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U
SW-3	'0-0	8/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U
SW-4	'0-0	8/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U
SW-5	'0-0	8/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U
SW-6	'0-0	11/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U
SW-A	'0-0.16	9/25/2006	0.00400 U	0.00310 U	0.00520 U	0.00730 U	0.00370 U	0.00200 U	0.00200 U	0.00250 U	0.00390 U	0.00550 U	0.00770 U	0.00420 U
SW-B	'0-0.16	9/25/2006	0.00350 U	0.00270 U	0.00460 U	0.00650 U	0.00330 U	0.00180 U	0.00180 U	0.00220 U	0.00340 U	0.00490 U	0.00680 U	0.00370 U
SW-B-DUP	'0-0.16	9/25/2006	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U
SW-C	'0-0.16	9/25/2006	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U
SW-D	'0-0.16	9/25/2006	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U
SW-E	'0-0.16	9/25/2006	0.00340 U	0.00270 U	0.00450 U	0.00640 U	0.00320 U	0.00180 U	0.00180 U	0.00220 U	0.00330 U	0.00480 U	0.00660 U	0.00360 U
SW-F	'0-0.16	9/25/2006	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U
SW-G	'0-0.16	9/25/2006	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC			0.037		0.053	0.053				0.13	0.21
Saltwater CCC			0.0023		0.0036	0.0036				0.001	0.0002
SW-1	'0-0	8/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 UJ	0.0200 U	0.0200 U	0.0200 UJ	0.250 U
SW-2	'0-0	8/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 UJ	0.0200 U	0.0200 U	0.0200 UJ	0.250 U
SW-3	'0-0	8/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 UJ	0.0200 U	0.0200 U	0.0200 UJ	0.250 U
SW-4	'0-0	8/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 UJ	0.0200 U	0.0200 U	0.0200 UJ	0.250 U
SW-5	'0-0	8/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
SW-6	'0-0	11/20/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0500 U	0.0200 U	0.0200 U	0.0200 U	0.250 U
SW-A	'0-0.16	9/25/2006	0.00360 U	0.00200 U	0.00180 U	0.00300 U	0.00800 U	0.00290 U	0.00200 U	0.00590 U	0.110 U
SW-B	'0-0.16	9/25/2006	0.00320 U	0.00180 U	0.00150 U	0.00270 U	0.00710 U	0.00250 U	0.00180 U	0.00520 U	0.0990 U
SW-B-DUP	'0-0.16	9/25/2006	0.00300 U	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
SW-C	'0-0.16	9/25/2006	0.00300 U	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
SW-D	'0-0.16	9/25/2006	0.00300 U	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
SW-E	'0-0.16	9/25/2006	0.00310 U	0.00180 U	0.00150 U	0.00260 U	0.00700 U	0.00250 U	0.00170 U	0.00510 U	0.0970 U
SW-F	'0-0.16	9/25/2006	0.00300 U	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
SW-G	'0-0.16	9/25/2006	0.00300 U	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016 ug/L	Aroclor 1221 ug/L	Aroclor 1232 ug/L	Aroclor 1242 ug/L	Aroclor 1248 ug/L	Aroclor 1254 ug/L	Aroclor 1260 ug/L
Saltwater CMC									
Saltwater CCC			0.03	0.03	0.03	0.03	0.03	0.03	0.03
SW-1	'0-0	8/20/2001	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
SW-2	'0-0	8/20/2001	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
SW-3	'0-0	8/20/2001	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
SW-4	'0-0	8/20/2001	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
SW-5	'0-0	8/20/2001	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
SW-6	'0-0	11/20/2001	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
SW-A	'0-0.16	9/25/2006	0.110 U	0.560 U	0.460 U	0.200 U	0.180 U	0.130 U	0.140 U
SW-B	'0-0.16	9/25/2006	0.110 U	0.550 U	0.460 U	0.190 U	0.180 U	0.130 U	0.140 U
SW-B-DUP	'0-0.16	9/25/2006	0.0940 U	0.470 U	0.390 U	0.160 U	0.150 U	0.110 U	0.120 U
SW-C	'0-0.16	9/25/2006	0.0940 U	0.470 U	0.390 U	0.160 U	0.150 U	0.110 U	0.120 U
SW-D	'0-0.16	9/25/2006	0.0940 U	0.470 U	0.390 U	0.160 U	0.150 U	0.110 U	0.120 U
SW-E	'0-0.16	9/25/2006	0.0960 U	0.480 U	0.400 U	0.170 U	0.160 U	0.110 U	0.120 U
SW-F	'0-0.16	9/25/2006	0.0940 U	0.470 U	0.390 U	0.160 U	0.150 U	0.110 U	0.120 U
SW-G	'0-0.16	9/25/2006	0.0940 U	0.470 U	0.390 U	0.160 U	0.150 U	0.110 U	0.120 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane ug/L	1,1,2,2-Tetrachloroethane ug/L	1,1,2-Trichloroethane ug/L	1,1-Dichloroethane ug/L	1,1-Dichloroethene ug/L	1,2,4-Trichlorobenzene ug/L	1,2-Dibromoethane ug/L	1,2-Dichlorobenzene ug/L
Saltwater CMC										
Saltwater CCC										
SW-1	'0-0	8/20/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
SW-2	'0-0	8/20/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
SW-3	'0-0	8/20/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
SW-4	'0-0	8/20/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
SW-5	'0-0	8/20/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
SW-6	'0-0	11/20/2001	5.00 U	2.00 U	3.00 U	5.00 U	2.00 U			
SW-A	'0-0.16	9/25/2006	0.28 U	0.28 U	0.32 U	0.23 U	0.33 U	2.50 J	0.52 U	1.20
SW-B	'0-0.16	9/25/2006	0.28 U	0.28 U	0.32 U	0.23 U	0.33 U	0.51 J	0.52 U	0.20 U
SW-B-DUP	'0-0.16	9/25/2006	0.28 U	0.28 U	0.32 U	0.23 U	0.33 U	0.44 J	0.52 U	0.20 U
SW-C	'0-0.16	9/25/2006	0.28 U	0.28 U	0.32 U	0.23 U	0.33 U	0.16 U	0.52 U	0.65 J
SW-D	'0-0.16	9/25/2006	0.28 U	0.28 U	0.32 U	0.23 U	0.33 U	0.16 U	0.52 U	0.20 U
SW-E	'0-0.16	9/25/2006	0.28 U	0.28 U	0.32 U	0.23 U	0.33 U	0.16 U	0.52 U	0.20 U
SW-F	'0-0.16	9/25/2006	0.28 U	0.28 U	0.32 U	0.23 U	0.33 U	0.16 U	0.52 U	0.20 U
SW-G	'0-0.16	9/25/2006	0.28 U	0.28 U	0.32 U	0.23 U	0.33 U	0.16 U	0.52 U	0.20 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dichloroethane ug/L	1,2-Dichloropropane ug/L	1,3-Dichlorobenzene ug/L	1,4-Dichlorobenzene ug/L	2-Butanone (MEK) ug/L	2-Hexanone ug/L	4-Methyl-2-Pentanone (MIBK) ug/L	Acetic Acid, Methyl Ester ug/L
Saltwater CMC										
Saltwater CCC										
SW-1	'0-0	8/20/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U	
SW-2	'0-0	8/20/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U	
SW-3	'0-0	8/20/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U	
SW-4	'0-0	8/20/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U	
SW-5	'0-0	8/20/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U	
SW-6	'0-0	11/20/2001	2.00 U	1.00 U			5.00 U	5.00 U	5.00 U	
SW-A	'0-0.16	9/25/2006	0.29 U	0.20 U	0.32 U	0.78 J	2.60 U	1.30 U	1.10 U	2.10 U
SW-B	'0-0.16	9/25/2006	0.29 U	0.20 U	0.32 U	0.24 U	2.60 U	1.30 U	1.10 U	2.10 U
SW-B-DUP	'0-0.16	9/25/2006	0.29 U	0.20 U	0.32 U	0.24 U	2.60 U	1.30 U	1.10 U	2.10 U
SW-C	'0-0.16	9/25/2006	0.29 U	0.20 U	0.32 U	0.24 U	2.60 U	1.30 U	1.10 U	2.10 U
SW-D	'0-0.16	9/25/2006	0.29 U	0.20 U	0.32 U	0.24 U	2.60 U	1.30 U	1.10 U	2.10 U
SW-E	'0-0.16	9/25/2006	0.29 U	0.20 U	0.32 U	0.24 U	2.60 U	1.30 U	1.10 U	2.10 U
SW-F	'0-0.16	9/25/2006	0.29 U	0.20 U	0.32 U	0.24 U	2.60 U	1.30 U	1.10 U	2.10 U
SW-G	'0-0.16	9/25/2006	0.29 U	0.20 U	0.32 U	0.24 U	2.60 U	1.30 U	1.10 U	2.10 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetone ug/L	Benzene ug/L	Bromo-dichloromethane ug/L	Bromoform ug/L	Bromomethane ug/L	Carbon Disulfide ug/L	Carbon Tetrachloride ug/L	Chlorobenzene ug/L	Chloro-dibromomethane ug/L	Chloroethane ug/L
Saltwater CMC												
Saltwater CCC												
SW-1	'0-0	8/20/2001	9.20	1.60	1.00 U	4.00 U	5.00 U	2.20 J	1.00 U	1.20 J	5.00 U	5.00 U
SW-2	'0-0	8/20/2001	14.00	0.90 J	1.00 U	4.00 U	5.00 U	5.00 U	1.00 U	1.40 J	5.00 U	5.00 U
SW-3	'0-0	8/20/2001	7.40	1.00 U	1.00 U	4.00 U	5.00 U	5.00 U	1.00 U	2.00 U	5.00 U	5.00 U
SW-4	'0-0	8/20/2001	7.60	1.00 U	1.00 U	4.00 U	5.00 U	5.00 U	1.00 U	19.40	5.00 U	5.00 U
SW-5	'0-0	8/20/2001	9.40	1.20	1.00 U	4.00 U	5.00 U	5.00 U	1.00 U	42.50	5.00 U	5.00 U
SW-6	'0-0	11/20/2001	5.00	1.00 U	1.00 U	4.00 U	5.00 U	5.00 U	1.00 U	2.00 U	5.00 U	5.00 U
SW-A	'0-0.16	9/25/2006	2.40 U	2.50	0.17 U	0.54 U	0.22 U	0.21 U	0.29 U	0.61 J	0.19 U	0.56 U
SW-B	'0-0.16	9/25/2006	2.40 U	0.76 J	0.17 U	0.54 U	0.22 U	0.21 U	0.29 U	0.91 J	0.19 U	0.56 U
SW-B-DUP	'0-0.16	9/25/2006	2.40 U	0.78 J	0.17 U	0.54 U	0.22 U	0.21 U	0.29 U	0.93 J	0.19 U	0.56 U
SW-C	'0-0.16	9/25/2006	2.40 U	0.21 U	0.17 U	0.54 U	0.22 U	0.21 U	0.29 U	4.10	0.19 U	0.56 U
SW-D	'0-0.16	9/25/2006	2.40 U	0.21 U	0.17 U	0.54 U	0.22 U	0.21 U	0.29 U	0.31 J	0.19 U	0.56 U
SW-E	'0-0.16	9/25/2006	2.40 U	0.21 U	0.17 U	0.54 U	0.22 U	0.21 U	0.29 U	0.22 U	0.19 U	0.56 U
SW-F	'0-0.16	9/25/2006	2.40 U	0.21 U	0.17 U	0.54 U	0.22 U	0.21 U	0.29 U	0.22 U	0.19 U	0.56 U
SW-G	'0-0.16	9/25/2006	2.40 U	0.21 U	0.17 U	0.54 U	0.22 U	0.21 U	0.29 U	0.22 U	0.19 U	0.56 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chloroform ug/L	Chloromethane ug/L	Cis-1,2-Dichloroethene ug/L	Cis-1,3-Dichloropropene ug/L	Cyclohexane ug/L	DBCP ug/L	Dichloro-difluoromethane ug/L	Ethylbenzene ug/L	Isopropylbenzene ug/L
Saltwater CMC											
Saltwater CCC											
SW-1	'0-0	8/20/2001	5.00 U	5.00 U	5.00 U	1.00 U				1.00 U	
SW-2	'0-0	8/20/2001	5.00 U	5.00 U	5.00 U	1.00 U				1.00 U	
SW-3	'0-0	8/20/2001	5.00 U	5.00 U	5.00 U	1.00 U				1.00 U	
SW-4	'0-0	8/20/2001	5.00 U	5.00 U	5.00 U	1.00 U				1.00 U	
SW-5	'0-0	8/20/2001	5.00 U	5.00 U	5.00 U	1.00 U				1.00 U	
SW-6	'0-0	11/20/2001	5.00 U	5.00 U	5.00 U	1.00 U				1.00 U	
SW-A	'0-0.16	9/25/2006	0.22 U	0.35 U	0.18 U	0.15 U	0.50 U	1.10 U	0.750 U	0.200 U	0.200 U
SW-B	'0-0.16	9/25/2006	0.22 U	0.35 U	0.18 U	0.15 U	0.50 U	1.10 U	0.750 U	0.200 U	0.200 U
SW-B-DUP	'0-0.16	9/25/2006	0.22 U	0.35 U	0.18 U	0.15 U	0.50 U	1.10 U	0.750 U	0.200 U	0.200 U
SW-C	'0-0.16	9/25/2006	0.22 U	0.35 U	0.18 U	0.15 U	0.50 U	1.10 U	0.750 U	0.200 U	0.200 U
SW-D	'0-0.16	9/25/2006	0.22 U	0.35 U	0.18 U	0.15 U	0.50 U	1.10 U	0.750 U	0.200 U	0.200 U
SW-E	'0-0.16	9/25/2006	0.22 U	0.35 U	0.18 U	0.15 U	0.50 U	1.10 U	0.750 U	0.200 U	0.200 U
SW-F	'0-0.16	9/25/2006	0.22 U	0.35 U	0.18 U	0.15 U	0.50 U	1.10 U	0.750 U	0.200 U	0.200 U
SW-G	'0-0.16	9/25/2006	0.22 U	0.35 U	0.18 U	0.15 U	0.50 U	1.10 U	0.750 U	0.200 U	0.200 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	M,P-Xylene (sum Of Isomers) ug/L	Methylcyclohexane ug/L	Methylene Chloride ug/L	O-xylene ug/L	Styrene ug/L	Tert-Butyl Methyl Ether ug/L	Tetrachloroethylene (PERC) ug/L	Toluene ug/L
Saltwater CMC										
Saltwater CCC										
SW-1	'0-0	8/20/2001			2.00 U		5.00 U		1.00 U	1.00 U
SW-2	'0-0	8/20/2001			2.00 U		5.00 U		1.00 U	1.00 U
SW-3	'0-0	8/20/2001			2.00 U		5.00 U		1.00 U	1.00 U
SW-4	'0-0	8/20/2001			2.00 U		5.00 U		1.00 U	1.00 U
SW-5	'0-0	8/20/2001			2.00 U		5.00 U		1.00 U	1.00 U
SW-6	'0-0	11/20/2001			2.00 U		5.00 U		1.00 U	1.00 U
SW-A	'0-0.16	9/25/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.750 J	0.280 U	0.200 U
SW-B	'0-0.16	9/25/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.310 U	0.280 U	0.200 U
SW-B-DUP	'0-0.16	9/25/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.310 U	0.280 U	0.200 U
SW-C	'0-0.16	9/25/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.310 U	0.280 U	0.200 U
SW-D	'0-0.16	9/25/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.310 U	0.280 U	0.200 U
SW-E	'0-0.16	9/25/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.310 U	0.280 U	0.200 U
SW-F	'0-0.16	9/25/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.310 U	0.280 U	0.200 U
SW-G	'0-0.16	9/25/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.310 U	0.280 U	0.200 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,2-Dichloroethene ug/L	Trans-1,3-Dichloropropene ug/L	Trichloroethene (TCE) ug/L	Trichloro-fluoromethane ug/L	Trichloro-trifluoroethane ug/L	Vinyl Chloride ug/L	Xylenes, Mixed ug/L
Saltwater CMC									
Saltwater CCC									
SW-1	'0-0	8/20/2001	5.00 U	1.00 U	1.00 U			1.00 U	5.00 U
SW-2	'0-0	8/20/2001	5.00 U	1.00 U	1.00 U			1.00 U	5.00 U
SW-3	'0-0	8/20/2001	5.00 U	1.00 U	1.00 U			1.00 U	5.00 U
SW-4	'0-0	8/20/2001	5.00 U	1.00 U	1.00 U			1.00 U	5.00 U
SW-5	'0-0	8/20/2001	5.00 U	1.00 U	1.00 U			1.00 U	5.00 U
SW-6	'0-0	11/20/2001	5.00 U	1.00 U	1.00 U			1.00 U	1.00 U
SW-A	'0-0.16	9/25/2006	0.420 U	0.200 U	0.290 U	2.70 J	4.90 J	0.290 U	0.310 U
SW-B	'0-0.16	9/25/2006	0.420 U	0.200 U	0.290 U	3.90 J	5.70	0.290 U	0.310 U
SW-B-DUP	'0-0.16	9/25/2006	0.420 U	0.200 U	0.290 U	4.10 J	5.80	0.290 U	0.310 U
SW-C	'0-0.16	9/25/2006	0.420 U	0.200 U	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
SW-D	'0-0.16	9/25/2006	0.420 U	0.200 U	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
SW-E	'0-0.16	9/25/2006	0.420 U	0.200 U	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
SW-F	'0-0.16	9/25/2006	0.420 U	0.200 U	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U
SW-G	'0-0.16	9/25/2006	0.420 U	0.200 U	0.290 U	0.250 U	0.690 U	0.290 U	0.310 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide	Suspended Solids (residue, Non-Filterable)
			ug/L	ug/L
Saltwater CMC				
Saltwater CCC			1	
DUP022307	'0-0	2/23/2007		34,000
SW-1	'0-0	8/20/2001	10.0 U	
SW-2	'0-0	8/20/2001	10.0 U	
SW-3	'0-0	8/20/2001	10.0 U	
SW-4	'0-0	8/20/2001	10.0 U	
SW-5	'0-0	8/20/2001	10.0 U	
SW-6	'0-0	11/20/2001	10.0 U	
SW-A	'0-0.16	9/25/2006	10.0 U	
SW-B	'0-0.16	9/25/2006	10.0 U	59,000 J
SW-C	'0-0.16	9/25/2006	10.0 U	
SW-D	'0-0.16	9/25/2006	10.0 U	
SW-E	'0-0.16	9/25/2006	10.0 U	4,000 U
SW-ERRT	'0-0	2/22/2007		499,000
SW-F	'0-0.16	9/25/2006	10.0 U	
SW-G	'0-0.16	9/25/2006	10.0 U	4,000 U
SW-VB-02-23-07-0700	'0-0	2/23/2007		17,000
SW-VB-02-23-07-0900	'0-0	2/23/2007		37,000
SW-VB-02-23-07-1100	'0-0	2/23/2007		29,000
SW-VB-02-23-07-1300	'0-0	2/23/2007		13,000
SW-VB-02-23-07-1500	'0-0	2/23/2007		15,000
SW-VB-2-22-07-1400	'0-0	2/22/2007		9,000
SW-VB-2-22-07-1600	'0-0	2/22/2007		88,000
SW-VB-2-22-07-1800	'0-0	2/22/2007		60,000
SW-VB-2-23-07-1700	'0-0	2/23/2007		123,000
SW-VB-2-23-07-1900	'0-0	2/23/2007		62,000
SW-WRRT	'0-0	2/22/2007		16,000

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,3,4,6,7,8-HPCDD	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDD	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDD	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDD	1,2,3,7,8,9-HXCDF
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC											
Saltwater CCC											
SW-C	'0-0.16	9/25/2006	0.00000416 A	0.00000299 A	0.00000252 U	0.00000252 U	0.00000258 A	0.00000252 U	0.00000119 A	0.00000252 U	0.00000107 A
SW-F	'0-0.16	9/25/2006	0.00000365 A	0.00000273 A	0.00000255 U	0.00000255 U	0.000000790 A	0.00000255 U	0.000000400 A	0.00000255 U	0.00000255 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,3,7,8-PECDD	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDF	Tetrachlorodibenzo-P-Dioxin	OCDD	OCDF	Total HPCDDS
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC											
Saltwater CCC											
SW-C	'0-0.16	9/25/2006	0.00000252 U	0.00000208 A	0.000000680 A	0.00000236 A	0.00000204 A	0.00000142 U	0.0000353 A	0.00000496 A	0.00000959
SW-F	'0-0.16	9/25/2006	0.00000255 U	0.000000670 A	0.00000255 U	0.000000730 A	0.00000162 U	0.00000174 U	0.0000437 A	0.00000324 A	0.00000856

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total HPCDFS ug/L	Total HXCDDS ug/L	Total HXCDFS ug/L	Total PECDDS ug/L	Total PECDFS ug/L	Total TCDDS ug/L	Total TCDFS ug/L
Saltwater CMC									
Saltwater CCC									
SW-C	'0-0.16	9/25/2006	0.00000515	0.00000252 U	0.00000694	0.00000252 U	0.00000995	0.00000142 U	0.0000110
SW-F	'0-0.16	9/25/2006	0.00000273	0.00000255 U	0.00000216	0.00000255 U	0.00000296	0.00000174 U	0.000000950

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1'-Biphenyl	1,2,4-Trichloro-benzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC											
Saltwater CCC											
SW-1	'0-0	8/20/2001		2.40	0.680 J	2.00 U	0.500 J	5.10 U	5.10 U	5.10 U	5.10 U
SW-2	'0-0	8/20/2001		5.10	1.60 J	2.00 U	0.670 J	5.00 U	5.00 U	5.00 U	5.00 U
SW-3	'0-0	8/20/2001		1.20 J	0.550 J	2.00 U	2.00 U	5.00 U	5.00 U	5.00 U	5.00 U
SW-4	'0-0	8/20/2001		0.670 J	0.620 J	2.00 U	2.00 U	5.10 U	5.10 U	5.10 U	5.10 U
SW-5	'0-0	8/20/2001		2.00 U	7.80	2.00 U	1.50 J	5.00 U	5.00 U	5.00 U	5.00 U
SW-6	'0-0	11/20/2001		2.10 U	2.10 U	2.10 U	2.10 U	5.20 U	5.20 U	5.20 U	5.20 U
SW-A	'0-0.16	9/25/2006	0.400 U					2.40 U	1.50 U	1.90 U	2.00 U
SW-B	'0-0.16	9/25/2006	0.340 U					2.00 U	1.30 U	1.60 U	1.70 U
SW-B-DUP	'0-0.16	9/25/2006	0.340 U					2.00 U	1.30 U	1.60 U	1.70 U
SW-C	'0-0.16	9/25/2006	0.330 U					1.90 U	1.30 U	1.60 U	1.60 U
SW-D	'0-0.16	9/25/2006	0.340 U					2.00 U	1.30 U	1.60 U	1.70 U
SW-E	'0-0.16	9/25/2006	0.330 U					1.90 U	1.30 U	1.60 U	1.60 U
SW-F	'0-0.16	9/25/2006	0.330 U					1.90 U	1.30 U	1.60 U	1.60 U
SW-G	'0-0.16	9/25/2006	0.330 U					1.90 U	1.30 U	1.60 U	1.60 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC											
Saltwater CCC											
SW-1	'0-0	8/20/2001	20.0 U	2.00 U	2.00 U	5.10 U	5.10 U	2.00 U	5.10 U	5.10 U	5.10 U
SW-2	'0-0	8/20/2001	20.0 U	2.00 U	2.00 U	5.00 U	5.00 U	2.00 U	5.00 U	5.00 U	5.00 U
SW-3	'0-0	8/20/2001	20.0 U	2.00 U	2.00 U	5.00 U	5.00 U	2.00 U	5.00 U	5.00 U	5.00 U
SW-4	'0-0	8/20/2001	20.0 U	2.00 U	2.00 U	5.10 U	5.10 U	2.00 U	5.10 U	5.10 U	5.10 U
SW-5	'0-0	8/20/2001	20.0 U	2.00 U	2.00 U	5.00 U	5.00 U	2.00 U	5.00 U	5.00 U	5.00 U
SW-6	'0-0	11/20/2001	21.0 U	2.10 U	2.10 U	5.20 U	5.20 U	2.10 U	5.20 U	5.20 U	5.20 U
SW-A	'0-0.16	9/25/2006	1.10 U	1.00 U	0.680 U	1.20 U	1.20 U	0.500 U	1.70 U	0.810 U	2.20 U
SW-B	'0-0.16	9/25/2006	0.920 U	0.890 U	0.580 U	1.00 U	0.980 U	0.420 U	1.40 U	0.680 U	1.90 U
SW-B-DUP	'0-0.16	9/25/2006	0.920 U	0.890 U	0.580 U	1.00 U	0.980 U	0.420 U	1.40 U	0.680 U	1.90 U
SW-C	'0-0.16	9/25/2006	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U	0.410 U	1.40 U	0.660 U	1.80 U
SW-D	'0-0.16	9/25/2006	0.930 U	0.900 U	0.580 U	1.00 U	0.990 U	0.430 U	1.40 U	0.690 U	1.90 U
SW-E	'0-0.16	9/25/2006	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U	0.410 U	1.40 U	0.660 U	1.80 U
SW-F	'0-0.16	9/25/2006	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U	0.410 U	1.40 U	0.660 U	1.80 U
SW-G	'0-0.16	9/25/2006	0.890 U	0.860 U	0.560 U	0.980 U	0.950 U	0.410 U	1.40 U	0.660 U	1.80 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Pentanone, 4-Hydroxy-4-Methyl-	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC											
Saltwater CCC											
SW-1	'0-0	8/20/2001		5.10 U	5.10 U	20.0 U	2.00 U	5.10 U	5.10 U	2.00 U	5.10 U
SW-2	'0-0	8/20/2001		5.00 U	5.00 U	20.0 U	2.00 U	5.00 U	5.00 U	2.00 U	5.00 U
SW-3	'0-0	8/20/2001		5.00 U	5.00 U	20.0 U	2.00 U	5.00 U	5.00 U	2.00 U	5.00 U
SW-4	'0-0	8/20/2001	23.0 JNB	5.10 U	5.10 U	20.0 U	2.00 U	5.10 U	5.10 U	2.00 U	5.10 U
SW-5	'0-0	8/20/2001		5.00 U	5.00 U	20.0 U	2.00 U	5.00 U	5.00 U	2.00 U	5.00 U
SW-6	'0-0	11/20/2001	7.40 JNB	5.20 U	5.20 U	21.0 U	2.10 U	5.20 U	5.20 U	2.10 U	5.20 U
SW-A	'0-0.16	9/25/2006		1.50 U	1.50 U	0.880 U	0.360 U	1.40 U	0.480 U	0.530 U	0.880 U
SW-B	'0-0.16	9/25/2006		1.30 U	1.30 U	0.740 U	0.310 U	1.20 U	0.410 U	0.440 U	0.740 U
SW-B-DUP	'0-0.16	9/25/2006		1.30 U	1.30 U	0.740 U	0.310 U	1.20 U	0.410 U	0.440 U	0.740 U
SW-C	'0-0.16	9/25/2006		1.20 U	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U
SW-D	'0-0.16	9/25/2006		1.30 U	1.30 U	0.750 U	0.310 U	1.20 U	0.410 U	0.450 U	0.750 U
SW-E	'0-0.16	9/25/2006		1.20 U	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U
SW-F	'0-0.16	9/25/2006		1.20 U	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U
SW-G	'0-0.16	9/25/2006		1.20 U	1.30 U	0.720 U	0.300 U	1.20 U	0.400 U	0.430 U	0.720 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC												
Saltwater CCC												
SW-1	'0-0	8/20/2001	20.0 U	0.920 J	2.00 U		2.00 U			2.00 U	2.00 U	2.00 U
SW-2	'0-0	8/20/2001	20.0 U	0.960 J	2.00 U		2.00 U			2.00 U	2.00 U	2.00 U
SW-3	'0-0	8/20/2001	20.0 U	2.00 U	2.00 U		2.00 U			2.00 U	2.00 U	2.00 U
SW-4	'0-0	8/20/2001	20.0 U	2.00 U	2.00 U		2.00 U			2.00 U	2.00 U	2.00 U
SW-5	'0-0	8/20/2001	20.0 U	2.00 U	2.00 U		2.00 U			2.00 U	2.00 U	2.00 U
SW-6	'0-0	11/20/2001	21.0 U	2.10 U	2.10 U		2.10 U			2.10 U	2.10 U	2.10 U
SW-A	'0-0.16	9/25/2006	1.00 U			0.460 U		0.200 U	0.320 U			
SW-B	'0-0.16	9/25/2006	0.870 U			0.390 U		0.170 U	0.270 U			
SW-B-DUP	'0-0.16	9/25/2006	0.870 U			0.390 U		0.170 U	0.270 U			
SW-C	'0-0.16	9/25/2006	0.840 U			0.370 U		0.160 U	0.270 U			
SW-D	'0-0.16	9/25/2006	0.880 U			0.390 U		0.170 U	0.280 U			
SW-E	'0-0.16	9/25/2006	0.840 U			0.370 U		0.160 U	0.270 U			
SW-F	'0-0.16	9/25/2006	0.840 U			0.370 U		0.160 U	0.270 U			
SW-G	'0-0.16	9/25/2006	0.840 U			0.370 U		0.160 U	0.270 U			

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (g,H,i) Perylene	Benzo (k) fluoranthene	Benzophenone	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Butyl Benzyl Phthalate	Caprolactam
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC											
Saltwater CCC											
SW-1	'0-0	8/20/2001	2.00 U	2.00 U	5.40 JN	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	
SW-2	'0-0	8/20/2001	2.00 U	2.00 U	9.30 JN	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	
SW-3	'0-0	8/20/2001	2.00 U	2.00 U		2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	
SW-4	'0-0	8/20/2001	2.00 U	2.00 U		2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	
SW-5	'0-0	8/20/2001	2.00 U	2.00 U		2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	
SW-6	'0-0	11/20/2001	2.10 U	2.10 U		2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	
SW-A	'0-0.16	9/25/2006				0.800 U	0.650 U	0.900 U	0.810 U	0.720 U	0.380 U
SW-B	'0-0.16	9/25/2006				0.670 U	0.550 U	0.760 U	0.680 U	0.610 U	0.320 U
SW-B-DUP	'0-0.16	9/25/2006				0.670 U	0.550 U	0.760 U	0.680 U	0.610 U	0.320 U
SW-C	'0-0.16	9/25/2006				0.650 U	0.530 U	0.740 U	0.660 U	0.590 U	0.320 U
SW-D	'0-0.16	9/25/2006				0.680 U	0.550 U	0.770 U	1.40 BJ	0.620 U	0.330 U
SW-E	'0-0.16	9/25/2006				0.650 U	0.530 U	0.740 U	0.660 U	0.590 U	0.320 U
SW-F	'0-0.16	9/25/2006				0.650 U	0.530 U	0.740 U	0.660 U	0.590 U	0.320 U
SW-G	'0-0.16	9/25/2006				0.650 U	0.530 U	0.740 U	0.660 U	0.590 U	0.320 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbazole	Chrysene	Cresols, M & P	Dibenz (a,H) Anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Fluoranthene	Fluorene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC													
Saltwater CCC													
SW-1	'0-0	8/20/2001	2.00 U	2.00 U	5.10 U	2.00 U	5.10 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SW-2	'0-0	8/20/2001	2.00 U	2.00 U	5.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SW-3	'0-0	8/20/2001	2.00 U	2.00 U	5.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SW-4	'0-0	8/20/2001	2.00 U	2.00 U	5.10 U	2.00 U	5.10 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SW-5	'0-0	8/20/2001	2.00 U	2.00 U	5.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SW-6	'0-0	11/20/2001	2.10 U	2.10 U	5.20 U	2.10 U	5.20 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
SW-A	'0-0.16	9/25/2006	0.440 U		1.50 U		0.420 U	0.480 U	0.400 U	0.720 U	0.690 U		
SW-B	'0-0.16	9/25/2006	0.380 U		1.30 U		0.350 U	0.400 U	0.340 U	0.610 U	0.590 U		
SW-B-DUP	'0-0.16	9/25/2006	0.380 U		1.30 U		0.350 U	0.400 U	0.340 U	0.610 U	0.590 U		
SW-C	'0-0.16	9/25/2006	0.360 U		1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U		
SW-D	'0-0.16	9/25/2006	0.380 U		1.30 U		0.360 U	0.410 U	0.340 U	0.620 U	0.590 U		
SW-E	'0-0.16	9/25/2006	0.360 U		1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U		
SW-F	'0-0.16	9/25/2006	0.360 U		1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U		
SW-G	'0-0.16	9/25/2006	0.360 U		1.30 U		0.340 U	0.390 U	0.330 U	0.590 U	0.570 U		

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Hexachloro-benzene	Hexachloro-butadiene	Hexachloro-cyclopentadiene	Hexachloro-ethane	Indeno (1,2,3-C,d) Pyrene	Isophorone	Naphthalene	Nitrobenzene	N-Nitroso-Di-N-Propylamine
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC											
Saltwater CCC											
SW-1	'0-0	8/20/2001	2.00 U	2.00 U	20.0 U	5.10 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SW-2	'0-0	8/20/2001	2.00 U	2.00 U	20.0 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SW-3	'0-0	8/20/2001	2.00 U	2.00 U	20.0 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SW-4	'0-0	8/20/2001	2.00 U	2.00 U	20.0 U	5.10 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SW-5	'0-0	8/20/2001	2.00 U	2.00 U	20.0 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
SW-6	'0-0	11/20/2001	2.10 U	2.10 U	21.0 U	5.20 U	2.10 U	2.10 U	2.10 U	2.10 U	2.10 U
SW-A	'0-0.16	9/25/2006		0.210 U	0.500 U	0.350 U		0.720 U		0.510 U	0.570 U
SW-B	'0-0.16	9/25/2006		0.180 U	0.420 U	0.290 U		0.610 U		0.430 U	0.480 U
SW-B-DUP	'0-0.16	9/25/2006		0.180 U	0.420 U	0.290 U		0.610 U		0.430 U	0.480 U
SW-C	'0-0.16	9/25/2006		0.180 U	0.410 U	0.280 U		0.590 U		0.420 U	0.470 U
SW-D	'0-0.16	9/25/2006		0.180 U	0.420 U	0.290 U		0.610 U		0.440 U	0.490 U
SW-E	'0-0.16	9/25/2006		0.180 U	0.410 U	0.280 U		0.590 U		0.420 U	0.470 U
SW-F	'0-0.16	9/25/2006		0.180 U	0.410 U	0.280 U		0.590 U		0.420 U	0.470 U
SW-G	'0-0.16	9/25/2006		0.180 U	0.410 U	0.280 U		0.590 U		0.420 U	0.470 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-diphenylamine	Penta-chlorophenol	Phenanthrene	Phenol, 4-(1,1,3,3-Tetramethylbutyl)-	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC				13				
Saltwater CCC				7.9				
SW-1	'0-0	8/20/2001	5.10 U	20.0 U	2.00 U		5.10 U	2.00 U
SW-2	'0-0	8/20/2001	5.00 U	20.0 U	2.00 U		5.00 U	2.00 U
SW-3	'0-0	8/20/2001	5.00 U	20.0 U	2.00 U		5.00 U	2.00 U
SW-4	'0-0	8/20/2001	5.10 U	20.0 U	2.00 U	4.40 JN	5.10 U	2.00 U
SW-5	'0-0	8/20/2001	5.00 U	20.0 U	2.00 U		5.00 U	2.00 U
SW-6	'0-0	11/20/2001	5.20 U	21.0 U	2.10 U		5.20 U	2.10 U
SW-A	'0-0.16	9/25/2006	0.630 U				0.600 U	
SW-B	'0-0.16	9/25/2006	0.530 U				0.510 U	
SW-B-DUP	'0-0.16	9/25/2006	0.530 U				0.510 U	
SW-C	'0-0.16	9/25/2006	0.520 U				0.500 U	
SW-D	'0-0.16	9/25/2006	0.540 U				0.520 U	
SW-E	'0-0.16	9/25/2006	0.520 U				0.500 U	
SW-F	'0-0.16	9/25/2006	0.520 U				0.500 U	
SW-G	'0-0.16	9/25/2006	0.520 U				0.500 U	

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (u
SW-1	ACTD	'0-0	8/20/2001	WS	SW8260B	Total TIC, Volatile	N		
SW-1	ACTD	'0-0	8/20/2001	WS	SW8270C	Total TIC, Semi-volatile	N		
SW-1	ACTD	'0-0	8/20/2001	WS	SW8270C	Unknown	N		7.80
SW-1	ACTD	'0-0	8/20/2001	WS	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		22.0
SW-2	ACTD	'0-0	8/20/2001	WS	SW8260B	Total TIC, Volatile	N		
SW-2	ACTD	'0-0	8/20/2001	WS	SW8270C	Total TIC, Semi-volatile	N		
SW-2	ACTD	'0-0	8/20/2001	WS	SW8270C	Unknown	N		6.90
SW-2	ACTD	'0-0	8/20/2001	WS	SW8270C	C3 Alkyl Benzene	N		9.80
SW-2	ACTD	'0-0	8/20/2001	WS	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		23.0
SW-2	ACTD	'0-0	8/20/2001	WS	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		7.00
SW-3	ACTD	'0-0	8/20/2001	WS	SW8260B	Total TIC, Volatile	N		
SW-3	ACTD	'0-0	8/20/2001	WS	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		22.0
SW-3	ACTD	'0-0	8/20/2001	WS	SW8270C	Total TIC, Semi-volatile	N		
SW-3	ACTD	'0-0	8/20/2001	WS	SW8270C	Phenol, -(-Tetramethylbutyl)-	N		6.20
SW-4	ACTD	'0-0	8/20/2001	WS	SW8260B	Total TIC, Volatile	N		
SW-4	ACTD	'0-0	8/20/2001	WS	SW8270C	Total TIC, Semi-volatile	N		
SW-5	ACTD	'0-0	8/20/2001	WS	SW8260B	1,2-Dichlorobenene	N		11.0
SW-5	ACTD	'0-0	8/20/2001	WS	SW8260B	Total TIC, Volatile	N		
SW-5	ACTD	'0-0	8/20/2001	WS	SW8270C	Total TIC, Semi-volatile	N		
SW-5	ACTD	'0-0	8/20/2001	WS	SW8270C	C3 Alkyl Benzene	N		4.00
SW-5	ACTD	'0-0	8/20/2001	WS	SW8270C	Benzene, Chloro-	N		8.00
SW-5	ACTD	'0-0	8/20/2001	WS	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		27.0
SW-6	ACTD	'0-0	11/20/2001	WS	SW8260B	Alkane	N		9.40
SW-6	ACTD	'0-0	11/20/2001	WS	SW8260B	Total TIC, Volatile	N		
SW-6	ACTD	'0-0	11/20/2001	WS	SW8270C	Total TIC, Semi-volatile	N		
SW-A	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.19)	N		12.0
SW-A	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=22.51)	N		7.60
SW-A	ACTD	'0-0.16	9/25/2006	WS	SW8270C	Unknown (RT=2.97)	N		8.70
SW-A	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=25.23)	N		5.40
SW-A	ACTD	'0-0.16	9/25/2006	WS	SW8270C	Phenol, Tetramethylbutyl (RT=13.75) TIC	N		7.10
SW-A	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		18.0
SW-A	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=24.47)	N		7.60
SW-A	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.81)	N		8.70
SW-B	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.81)	N		5.30
SW-B	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.18)	N		5.80
SW-B	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		14.0
SW-B	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=24.46)	N		4.60
SW-B	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=22.5)	N		4.20
SW-B-DUP	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=24.46)	FD	SW-B	6.30
SW-B-DUP	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	FD	SW-B	15.0
SW-B-DUP	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.81)	FD	SW-B	7.10
SW-B-DUP	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.18)	FD	SW-B	8.30
SW-B-DUP	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=25.22)	FD	SW-B	5.50
SW-B-DUP	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=21.75)	FD	SW-B	4.90
SW-B-DUP	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=26.13)	FD	SW-B	4.20
SW-B-DUP	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=22.5)	FD	SW-B	7.30
SW-C	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.82)	N		6.10
SW-C	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		11.0
SW-C	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=22.51)	N		4.20
SW-C	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.19)	N		6.70
SW-D	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=21.78)	N		24.0
SW-D	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=22.52)	N		21.0
SW-D	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=20.05)	N		18.0
SW-D	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.83)	N		6.20

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (u
SW-D	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.2)	N		12.0
SW-D	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=20.96)	N		23.0
SW-D	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=18.97)	N		9.50
SW-D	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		15.0
SW-E	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.19)	N		6.10
SW-E	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		13.0
SW-E	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.81)	N		6.30
SW-E	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=24.47)	N		4.10
SW-F	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=24.47)	N		7.00
SW-F	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=25.23)	N		8.50
SW-F	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=26.14)	N		10.0
SW-F	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.81)	N		7.30
SW-F	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.19)	N		6.00
SW-F	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=22.51)	N		4.10
SW-F	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=27.24)	N		11.0
SW-F	ACTD	'0-0.16	9/25/2006	WS	SW8270C	Unknown (RT=16.13)	N		4.40
SW-F	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		14.0
SW-G	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=22.66)	N		4.60
SW-G	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.81)	N		5.80
SW-G	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=24.47)	N		4.30
SW-G	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=24.75)	N		8.80
SW-G	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		8.80
SW-G	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=27.05)	N		5.30
SW-G	ACTD	'0-0.16	9/25/2006	WS	SW8270C	System Artifact (RT=23.19)	N		5.70

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

ug/L)
U
U
J
JB
U
U
J
J
JB
J
U
JB
U
J
U
U
JN
U
U
J
J
JB
JNB
U
U
J
J
J

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

ug/L)
J
J
J
J
J
J
J
J
J
J
J
J
J
J
J
J
J
J
J
J
J
J
J
J

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum ug/L	Antimony ug/L	Arsenic ug/L	Barium ug/L	Beryllium ug/L	Cadmium ug/L	Calcium ug/L	Chromium ug/L	Cobalt ug/L	Copper ug/L
Saltwater CMC					**69**			**40**				**4.8**
Saltwater CCC					**36**			**8.8**				**3.1**
SW-ND-A	'0-0	25-Jul-11	15900	12 U	**348**	1910	2 U	*10.6*	214000	277	100 U	**449**
SW-ND-A	'0-0	28-Jul-11										
SW-ND-C	'0-0	25-Jul-11	200 U	6 U	*54.4*	200 U	1 U	3 U	115000	10 U	50 U	10 U
SW-ND-C	'0-0	28-Jul-11										
SW-SD-A	'0-0	25-Jul-11	961	30 U	*46.2*	200 U	1 U	15 U	292000	50 U	250 U	50 U
SW-SD-A	'0-0	28-Jul-11										
SW-SD-C	'0-0	25-Jul-11	1540	6 U	11.8	200 U	1 U	3 U	216000	10 U	50 U	**18.4**
SW-SD-C	'0-0	28-Jul-11										
SW-SD-C-DUP	'0-0	25-Jul-11	200 U	6 U	12.7	200 U	1 U	3 U	217000	10 U	50 U	**19.7**
SW-SD-C-DUP	'0-0	28-Jul-11										

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC				**210**			**1.8**	**74**		**290**	**1.9**
Saltwater CCC				**8.1**			**0.94**	**8.2**		**71**	
SW-ND-A	'0-0	25-Jul-11	62700	**248**	599000	931		*52.6*	250000	20 U	20 U
SW-ND-A	'0-0	28-Jul-11					0.0149				
SW-ND-C	'0-0	25-Jul-11	100 U	3 U	316000	431		10 U	124000	10 U	10 U
SW-ND-C	'0-0	28-Jul-11					0.0173				
SW-SD-A	'0-0	25-Jul-11	981	15 U	1030000	145		50 U	419000	50 U	50 U
SW-SD-A	'0-0	28-Jul-11					0.022				
SW-SD-C	'0-0	25-Jul-11	3920	*10.6*	673000	595		10 U	244000	10 U	10 U
SW-SD-C	'0-0	28-Jul-11					0.0087 J				
SW-SD-C-DUP	'0-0	25-Jul-11	149	15 U	694000	564		50 U	285000	10 U	10 U
SW-SD-C-DUP	'0-0	28-Jul-11					0.0011				

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Sodium	Thallium	Vanadium	Zinc
			ug/L	ug/L	ug/L	ug/L
Saltwater CMC						**90**
Saltwater CCC						**81**
SW-ND-A	'0-0	25-Jul-11	4880000	4 U	100 U	**1620**
SW-ND-A	'0-0	28-Jul-11				
SW-ND-C	'0-0	25-Jul-11	2580000	2 U	50 U	20 U
SW-ND-C	'0-0	28-Jul-11				
SW-SD-A	'0-0	25-Jul-11	7210000	10 U	250 U	100 U
SW-SD-A	'0-0	28-Jul-11				
SW-SD-C	'0-0	25-Jul-11	5550000	2 U	50 U	38.4
SW-SD-C	'0-0	28-Jul-11				
SW-SD-C-DUP	'0-0	25-Jul-11	5600000	10 U	50 U	24.9
SW-SD-C-DUP	'0-0	28-Jul-11				

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Endosulfan (Endosulfan I)	Endosulfan (Endosulfan	BHC, alpha	BHC, beta	BHC, delta	BHC, gamma (Lindane)	Chlordane, alpha	Chlordane, beta
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC						**1.3**								
Saltwater CCC														
SW-ND-A	'0-0	7/25/2011	0.0036 U	0.0030 U	0.0060 U	0.0095 U	0.0030 U	0.0028 U	0.0040 U	0.0038 U	0.0062 U	0.0041 U	0.0050 U	0.0023 U
SW-ND-C	'0-0	7/25/2011	0.0036 U	0.0030 U	0.0060 U	0.0095 U	0.0030 U	0.0028 U	0.0040 U	0.0038 U	0.0062 U	0.0041 U	0.0050 U	0.0023 U
SW-SD-A	'0-0	7/25/2011	0.0036 U	0.0030 U	0.0060 U	0.0095 U	0.0030 U	0.0028 U	0.0930	0.0038 U	0.0062 U	0.0041 U	0.0050 U	0.0023 U
SW-SD-C	'0-0	7/25/2011	0.0036 U	0.0030 U	0.0060 U	0.0095 U	0.0030 U	0.0028 U	0.0040 U	0.0038 U	0.0062 U	0.0041 U	0.0050 U	0.0023 U
SW-SD-C-DUP	'0-0	7/25/2011	0.0036 U	0.0030 U	0.0060 U	0.0095 U	0.0030 U	0.0028 U	0.0040 U	0.0038 U	0.0062 U	0.0041 U	0.0050 U	0.0023 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Dieldrin	Endosulfan sulfate	Endrin aldehyde	Endrin ketone	Endrin	Heptachlor epoxide	Heptachlor	Methoxychlor	Toxaphene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC			**0.71**				**0.037**	**0.053**	**0.053**		**0.21**
Saltwater CCC			**0.0019**				**0.0023**	**0.0036**	**0.0036**		**0.0002**
SW-ND-A	'0-0	7/25/2011	0.0033 U	0.0064 U	0.0029 U	0.0041 U	0.0064 U	0.0038 U	0.0084 U	0.0082 U	0.150 U
SW-ND-C	'0-0	7/25/2011	0.0033 U	0.0064 U	0.0029 U	0.0041 U	0.0064 U	0.0038 U	0.0084 U	0.0082 U	0.150 U
SW-SD-A	'0-0	7/25/2011	0.0033 U	0.0064 U	0.0029 U	0.0041 U	0.0064 U	0.0038 U	0.0084 U	0.0082 U	0.150 U
SW-SD-C	'0-0	7/25/2011	0.0033 U	0.0064 U	0.0029 U	0.0041 U	0.0064 U	0.0038 U	0.0084 U	0.0082 U	0.150 U
SW-SD-C-DUP	'0-0	7/25/2011	0.0033 U	0.0064 U	0.0029 U	0.0041 U	0.0064 U	0.0038 U	0.0084 U	0.0082 U	0.150 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016 ug/L	Aroclor 1221 ug/L	Aroclor 1232 ug/L	Aroclor 1242 ug/L	Aroclor 1248 ug/L	Aroclor 1254 ug/L	Aroclor 1260 ug/L	Aroclor 1262 ug/L	Aroclor 1268 ug/L
Saltwater CMC											
Saltwater CCC			**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**
SW-ND-A	'0-0	7/25/2011	0.130 U	0.270 U	0.390 U	0.086 U	0.150 U	0.140 U	0.210 U	0.060 U	0.130 U
SW-ND-C	'0-0	7/25/2011	0.130 U	0.270 U	0.390 U	0.086 U	0.150 U	0.140 U	0.210 U	0.060 U	0.130 U
SW-SD-A	'0-0	7/25/2011	0.130 U	0.270 U	0.390 U	0.086 U	0.150 U	0.140 U	0.210 U	0.060 U	0.130 U
SW-SD-C	'0-0	7/25/2011	0.130 U	0.270 U	0.390 U	0.086 U	0.150 U	0.140 U	0.210 U	0.060 U	0.130 U
SW-SD-C-DUP	'0-0	7/25/2011	0.130 U	0.270 U	0.390 U	0.086 U	0.150 U	0.140 U	0.210 U	0.060 U	0.130 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane ug/L	1,1,2,2-Tetrachloroethane ug/L	1,2,2-trifluoroethane ug/L	1,1,2-Trichloroethane ug/L	1,1-Dichloroethane ug/L	1,1-Dichloroethene ug/L	1,2,3-Trichlorobenzene ug/L	1,2,4-Trichlorobenzene ug/L
Saltwater CMC										
Saltwater CCC										
SW-ND-A	'0-0	7/25/2011	0.24 U	0.20 U	0.49 U	0.23 U	0.19 U	0.28 U	0.69 U	0.15 U
SW-ND-C	'0-0	7/25/2011	0.24 U	0.20 U	0.49 U	0.23 U	0.19 U	0.28 U	0.69 U	0.15 U
SW-SD-A	'0-0	7/25/2011	0.24 U	0.20 U	0.49 U	0.23 U	0.19 U	0.28 U	0.69 U	0.15 U
SW-SD-C	'0-0	7/25/2011	0.24 U	0.20 U	0.49 U	0.23 U	0.19 U	0.28 U	0.69 U	0.15 U
SW-SD-C-DUP	'0-0	7/25/2011	0.24 U	0.20 U	0.49 U	0.23 U	0.19 U	0.28 U	0.69 U	0.15 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dichlorobenzene ug/L	1,2-Dichloroethane ug/L	1,2-Dichloropropane ug/L	1,2-Dimethylbenzene (o-xylene) ug/L	1,3-Dichlorobenzene ug/L	1,4-Dichlorobenzene ug/L	1,4-Dioxane ug/L	2-Butanone (MEK) ug/L
Saltwater CMC										
Saltwater CCC										
SW-ND-A	'0-0	7/25/2011	0.18 U	0.18 U	0.22 U	0.17 U	0.29 U	0.26 U	72.00 U	2.90 U
SW-ND-C	'0-0	7/25/2011	0.18 U	0.18 U	0.22 U	0.17 U	0.29 U	0.26 U	72.00 U	2.90 U
SW-SD-A	'0-0	7/25/2011	0.18 U	0.18 U	0.22 U	0.17 U	0.29 U	0.26 U	72.00 U	2.90 U
SW-SD-C	'0-0	7/25/2011	0.18 U	0.18 U	0.22 U	0.17 U	0.29 U	0.26 U	72.00 U	2.90 U
SW-SD-C-DUP	'0-0	7/25/2011	0.18 U	0.18 U	0.22 U	0.17 U	0.29 U	0.26 U	72.00 U	2.90 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Hexanone ug/L	pentanone (MIBK) ug/L	Acetone ug/L	Benzene ug/L	Bromochloromethane ug/L	Bromodichloromethane ug/L	Bromoform ug/L	Bromomethane ug/L	Carbon disulfide ug/L	Carbon tetrachloride ug/L
Saltwater CMC												
Saltwater CCC												
SW-ND-A	'0-0	7/25/2011	3.00 U	1.20 U	9.80 J	0.22 U	0.40 U	0.23 U	0.24 U	0.31 U	2.60	0.19 U
SW-ND-C	'0-0	7/25/2011	3.00 U	1.20 U	7.60 U	0.22 U	0.40 U	0.23 U	0.24 U	0.31 U	0.18 U	0.19 U
SW-SD-A	'0-0	7/25/2011	3.00 U	1.20 U	23.90	0.22 U	0.40 U	0.23 U	0.24 U	0.31 U	1.80 J	0.19 U
SW-SD-C	'0-0	7/25/2011	3.00 U	1.20 U	7.60 U	0.22 U	0.40 U	0.23 U	0.24 U	0.31 U	0.18 U	0.19 U
SW-SD-C-DUP	'0-0	7/25/2011	3.00 U	1.20 U	7.60 U	0.22 U	0.40 U	0.23 U	0.24 U	0.31 U	0.18 U	0.19 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chlorobenzene ug/L	Chloroethane ug/L	Chloroform ug/L	Chloromethane ug/L	cis-1,2-Dichloroethene ug/L	cis-1,3-Dichloropropene ug/L	Cyclohexane ug/L	Dibromochloromethane ug/L	Dichlorodifluoromethane (Freon 12) ug/L
Saltwater CMC											
Saltwater CCC											
SW-ND-A	'0-0	7/25/2011	0.22 U	0.37 U	0.21 U	0.22 U	0.22 U	0.22 U	0.29 U	0.20 U	0.31 U
SW-ND-C	'0-0	7/25/2011	0.22 U	0.37 U	0.21 U	0.22 U	0.22 U	0.22 U	0.29 U	0.20 U	0.31 U
SW-SD-A	'0-0	7/25/2011	0.22 U	0.37 U	0.21 U	0.22 U	0.22 U	0.22 U	0.29 U	0.20 U	0.31 U
SW-SD-C	'0-0	7/25/2011	0.22 U	0.37 U	0.21 U	0.22 U	0.22 U	0.22 U	0.29 U	0.20 U	0.31 U
SW-SD-C-DUP	'0-0	7/25/2011	0.22 U	0.37 U	0.21 U	0.22 U	0.22 U	0.22 U	0.29 U	0.20 U	0.31 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Ethylbenzene ug/L	Isopropylbenzene (Cumene) ug/L	(sum of isomers) ug/L	Methyl acetate ug/L	Methylcyclohexane ug/L	Methylene chloride ug/L	Styrene ug/L	methyl ether (MTBE) ug/L
Saltwater CMC										
Saltwater CCC										
SW-ND-A	'0-0	7/25/2011	0.21 U	0.19 U	0.32 U	2.90 U	0.18 U	0.20 U	0.23 U	0.18 U
SW-ND-C	'0-0	7/25/2011	0.21 U	0.19 U	0.32 U	2.90 U	0.18 U	0.20 U	0.23 U	0.18 U
SW-SD-A	'0-0	7/25/2011	0.21 U	0.19 U	0.32 U	2.90 U	0.18 U	0.20 U	0.23 U	0.18 U
SW-SD-C	'0-0	7/25/2011	0.21 U	0.19 U	0.32 U	2.90 U	0.18 U	0.20 U	0.23 U	0.18 U
SW-SD-C-DUP	'0-0	7/25/2011	0.21 U	0.19 U	0.32 U	2.90 U	0.18 U	0.20 U	0.23 U	0.18 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetrachloroethene (PCE) ug/L	Toluene ug/L	trans-1,2-Dichloroethene ug/L	trans-1,3-Dichloropropene ug/L	Trichloroethene (TCE) ug/L	omethane (Freon 11) ug/L	Vinyl chloride ug/L	Xylenes, total ug/L
Saltwater CMC										
Saltwater CCC										
SW-ND-A	'0-0	7/25/2011	0.32 U	0.15 U	0.31 U	0.19 U	0.21 U	0.35 U	0.27 U	0.17 U
SW-ND-C	'0-0	7/25/2011	0.32 U	0.15 U	0.31 U	0.19 U	0.21 U	0.35 U	0.27 U	0.17 U
SW-SD-A	'0-0	7/25/2011	0.32 U	0.15 U	0.31 U	0.19 U	0.21 U	0.35 U	0.27 U	0.17 U
SW-SD-C	'0-0	7/25/2011	0.32 U	0.15 U	0.31 U	0.19 U	0.21 U	0.35 U	0.27 U	0.17 U
SW-SD-C-DUP	'0-0	7/25/2011	0.32 U	0.15 U	0.31 U	0.19 U	0.21 U	0.35 U	0.27 U	0.17 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide, total	Hardness (as CaCO3)
			mg/L	mg/L
Saltwater CMC				
Saltwater CCC			**1**	
SW-ND-A	'0-0	7/25/2011	0.01 U	5,990
SW-ND-C	'0-0	7/25/2011	0.01 U	1,620.0
SW-SD-A	'0-0	7/25/2011	0.01 U	5,230.0
SW-SD-C	'0-0	7/25/2011	0.01 UJ	3,550.0
SW-SD-C-DUP	'0-0	7/25/2011	0.01 U	3,370.0

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetrachlorobenzene	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC											
Saltwater CCC											
SW-ND-A	'0-0	7/25/2011	0.480 U	0.81 UJ	1.300 U	1.20 UJ	1.200 U	1.70 U	0.74 U	0.22 U	0.33 U
SW-ND-C	'0-0	7/25/2011	0.480 U	0.81 UJ	1.30 U	1.20 UJ	1.200 U	1.70 U	0.74 U	0.22 U	0.33 U
SW-SD-A	'0-0	7/25/2011	0.480 U	0.81 UJ	1.300 U	1.20 UJ	1.20 U	1.70 U	0.74 U	0.22 U	0.33 U
SW-SD-C	'0-0	7/25/2011	0.480 U	0.810 U	1.300 U	1.20 U	1.20 U	1.70 U	0.74 U	0.22 U	0.33 U
SW-SD-C-DUP	'0-0	7/25/2011	0.480 U	0.81 U	1.30 U	1.20 U	1.20 U	1.70 U	0.74 U	0.22 U	0.33 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chloronaphthalene	2-Chlorophenol	Methylnaphthalene	2-Methylphenol (o-cresol)	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	Methylphenol (m,p-cresol)	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC											
Saltwater CCC											
SW-ND-A	'0-0	7/25/2011	0.4 U	1.10 U	0.66 U	1.10 U	0.24 U	1.20 U	0.30 U	1.00 U	0.29 U
SW-ND-C	'0-0	7/25/2011	0.4 U	1.10 U	0.66 U	1.10 U	0.24 U	1.20 U	0.30 U	1.00 U	0.29 U
SW-SD-A	'0-0	7/25/2011	0.4 U	1.10 U	0.66 U	1.10 U	0.24 U	1.20 U	0.30 U	1.00 U	0.29 U
SW-SD-C	'0-0	7/25/2011	0.4 U	1.10 U	0.66 U	1.10 U	0.24 U	1.20 U	0.30 R	1.00 U	0.29 UJ
SW-SD-C-DUP	'0-0	7/25/2011	0.4 U	1.10 U	0.66 U	1.10 U	0.24 U	1.20 U	0.30 U	1.00 U	0.29 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Expr1055
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC											
Saltwater CCC											
SW-ND-A	'0-0	7/25/2011	0.510 U	0.35 U	1.10 U	0.3 U	0.35 U	0.18 U	0.83 U	0.29	U U
SW-ND-C	'0-0	7/25/2011	0.510 U	0.35 U	1.10 U	0.3 U	0.35 U	0.18 U	0.83 U	0.18	U U
SW-SD-A	'0-0	7/25/2011	0.510 U	0.35 U	1.10 U	0.3 U	0.35 U	0.18 U	0.83 U	0.01 U	U U
SW-SD-C	'0-0	7/25/2011	0.5 U	0.35 U	1.10 U	0.3 U	0.35 U	0.18 UJ	0.83 U	0.11 J	U U
SW-SD-C-DUP	'0-0	7/25/2011	0.510 U	0.35 U	1.10 U	0.3 U	0.35 U	0.18 U	0.83 U	0.01 UJ	U U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl butyl phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC												
Saltwater CCC												
SW-ND-A	'0-0	7/25/2011	2.4	0.152	0.39 U	0.400 U	0.32	0.005 U	0.016 U	0.01 U	0.01 U	0.25 U
SW-ND-C	'0-0	7/25/2011	1.9 J	0.010 U	0.39 U	0.400 U	0.02 U	0.005 U	0.016 U	0.01 U	0.01 U	0.25 U
SW-SD-A	'0-0	7/25/2011	6.0	0.01 U	0.39 U	0.400 U	0.02 U	0.005 U	0.016 U	0.01 U	0.01 U	0.25 U
SW-SD-C	'0-0	7/25/2011	1.3 J	0.01 U	0.39 U	0.400 U	0.02 U	0.005 U	0.016 U	0.01 U	0.01 U	0.25 U
SW-SD-C-DUP	'0-0	7/25/2011	3.4 J	0.01 U	0.39 U	0.400 U	0.02 U	0.005 U	0.016 U	0.01 U	0.01 U	0.25 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Biphenyl (Diphenyl)	Chloroethoxy) methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	bis(2-Ethylhexyl)phthalate	Caprolactam	Carbazole	Chrysene	Dibenz(a,h)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC											
Saltwater CCC											
SW-ND-A	'0-0	7/25/2011	0.42 U	0.25 U	0.31 U	0.39 U	0.33 U	0.20 U	0.17 U	0.36	0.023 U
SW-ND-C	'0-0	7/25/2011	0.42 U	0.25 U	0.31 U	0.39 U	0.33 U	0.20 U	0.17 U	0.02 U	0.023 U
SW-SD-A	'0-0	7/25/2011	0.42 U	0.25 U	0.310 U	0.39 U	0.33 U	0.20 U	0.17 U	0.02 U	0.023 U
SW-SD-C	'0-0	7/25/2011	0.42 U	0.25 U	0.310 U	0.39 U	0.33 U	0.20 U	0.17 U	0.02 U	0.023 U
SW-SD-C-DUP	'0-0	7/25/2011	0.42 U	0.25 U	0.310 U	0.39 U	0.33 U	0.20 U	0.17 U	0.02 U	0.023 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	dl-n-Butyl phthalate	dl-n-Octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC													
Saltwater CCC													
SW-ND-A	'0-0	7/25/2011	0.30 U	0.17 U	0.23 U	0.19 U	0.40 U	0.93	0.02 U	0.01 U	0.13 U	0.24 U	0.21 U
SW-ND-C	'0-0	7/25/2011	0.30 U	0.17 U	0.23 U	0.19 U	0.40 U	0.01 U	0.02 U	0.01 U	0.13 U	0.24 U	0.21 U
SW-SD-A	'0-0	7/25/2011	0.30 U	0.17 U	0.23 U	0.19 U	0.40 U	0.01 U	0.02 U	0.01 U	0.13 U	0.24 U	0.21 U
SW-SD-C	'0-0	7/25/2011	0.30 U	0.17 U	0.23 U	0.19 U	0.40 U	0.18	0.02 U	0.01 U	0.13 U	0.24 U	0.21 U
SW-SD-C-DUP	'0-0	7/25/2011	0.30 U	0.17 U	0.23 U	0.19 U	0.40 U	0.17	0.02 U	0.01 U	0.13 U	0.24 U	0.21 U

APPENDIX J-5
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Indeno(1,2,3-c,d)pyrene	Isophorone	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Saltwater CMC												
Saltwater CCC												
SW-ND-A	'0-0	7/25/2011	0.01 U	0.25 U	0.3	0.25 U	0.44 U	0.22 U	0.29 U	0.16	0.58 U	0.67
SW-ND-C	'0-0	7/25/2011	0.01 U	0.25 U	0.3	0.25 U	0.44 U	0.22 U	0.29 U	0.02 U	0.58 U	0.01 U
SW-SD-A	'0-0	7/25/2011	0.01 U	0.25 U	0.7	0.25 U	0.44 U	0.22 U	0.29 U	0.02 U	0.58 U	0.01 U
SW-SD-C	'0-0	7/25/2011	0.01 U	0.25 U	0.0 U	0.25 U	0.44 U	0.22 U	0.29 U	0.02 U	0.58 U	0.16
SW-SD-C-DUP	'0-0	7/25/2011	0.01 U	0.25 U	0.0 U	0.25 U	0.44 U	0.22 U	0.29 U	0.02 U	0.58 U	0.14

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acid Volatile Sulfide	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL						8			1.2			81	
Sediment ERM						70			9.6			370	
SED-1 (0.0-0.5FT)	'0-0.5	08/22/01		8,120 J	1.30 UJ	48.7	2,930 J	0.670 U	6.80	8,880 J		29.5	10.4
SED-1 (0.5-1.0FT)	'0.5-1	08/22/01		7,470 J	1.60 J	140.	1,860 J	0.770	12.4	45,600 J		25.2	10.0
SED-1 (1.0-1.5FT)	'1-1.5	08/22/01		4,530 J	1.90 J	84.6	3,260 J	0.730 U	2.40	92,600 J		31.7	7.30 U
SED-2 (0.0-0.5FT)	'0-0.5	08/22/01		9,750 J	2.50 UJ	4,250	7,620 J	1.20 U	32.0	38,400 J		63.5	12.5
SED-2 (0.5-1.0FT)	'0.5-1	08/22/01		5,430 J	1.20 UJ	119.	1,650 J	0.600 U	43.5	35,400 J		26.7	7.60
SED-2 (1.0-1.5FT)	'1-1.5	08/22/01		4,680 J	1.60 UJ	126.	1,250 J	0.790 U	166.	109,000 J		150.	15.0
SED-3 (0.0-0.5FT)	'0-0.5	08/22/01		6,980 J	1.50 UJ	19.9	1,620 J	0.760 U	35.1	2,280 J		24.8	7.60 U
SED-3 (0.5-1.0FT)	'0.5-1	08/22/01		13,200 J	2.30 UJ	13.8 J	1,800 J	1.20 UJ	27.6 J	102,000 J		66.6 J	12.0 UJ
SED-3 (1.0-1.5FT)	'1-1.5	08/22/01		17,500 J	3.70 UJ	12.1 J	96.6 J	1.90 UJ	1.90 UJ	4,530 J		37.8 J	19.0 UJ
SED-4 (0.0-0.5FT)	'0-0.5	08/22/01		6,810 J	2.10 UJ	51.5 J	2,210 J	1.10 UJ	111. J	154,000 J		45.0 J	11.0 UJ
SED-4 (0.5-1.0FT)	'0.5-1	08/22/01		3,780	1.70 U	20.9	203.	0.860 U	37.9	132,000		18.5	8.60 U
SED-5 (0.0-0.5FT)	'0-0.5	08/22/01		19,400 J	3.50 UJ	23.7 J	1,810 J	1.70 UJ	2.80 J	23,900 J		58.5 J	17.0 UJ
SED-5 (0.5-1.0FT)	'0.5-1	08/22/01		22,400 J	2.90 UJ	14.2 J	490. J	1.40 UJ	1.40 UJ	2,900 J		41.1 J	14.0 UJ
SED-5 (1.0-1.5FT)	'1-1.5	08/22/01		21,800 J	5.10 UJ	12.1 J	135. J	1.30 UJ	1.30 UJ	2,360 J		39.0 J	13.0 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/01		17,500 J	5.40 UJ	40.8 J	2,590 J	2.70 UJ	6.70 J	4,390 J		57.1 J	27.0 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/01		21,000 J	3.90 UJ	16.7 J	79.0 UJ	2.00 UJ	2.00 UJ	2,920 J		36.6 J	20.0 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/01		18,400 J	4.10 UJ	6.80 J	82.0 UJ	2.00 UJ	2.00 UJ	3,160 J		33.5 J	20.0 UJ
SED-7	'0-0.5	10/10/06	0.00200 U	15,200	7.80 U	237.	16,700	5.90 U	46.7	14,800	4.00 U	110.	20.0 U
SED-8	'0-0.5	10/10/06	0.00100 U	14,000	5.20	319.	9,610	3.80 U	38.5	15,600	2.50 U	111.	13.0 U
SED-9	'0-0.5	10/10/06	0.00100	7,560	4.00	118.	8,930	0.890 U	30.5	15,800	1.80 U	53.8	8.90 U
SED-A-08-2-0.5	'0-0.5	5/15/2008											
SED-A-08-2-1.0	'0-1	5/15/2008											
SED-A-08-2-1.5	'0-1.5	5/15/2008											
SED-A-08-2-2.0	'0-2	5/15/2008											
SED-A-08-2-2.5	'0-2.5	5/15/2008											
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.00200 U	18,200	9.30 U	2,640	7,700	2.30 U	61.3	44,700	5.60	207.	26.1
SED-A-2-0.5-1.0	'0.5-1	10/9/2006		19,400	4.40 U	249.	286.	1.10 U	65.5	2,480	2.30 U	172.	15.0
SED-A-2-0-0.5	'0-0.5	10/9/2006		19,000	6.00	930.	962.	1.00 U	110.	7,700	3.20	2,690	19.6
SED-A-2-1.0-1.5	'1-1.5	10/9/2006		23,200	4.30 U	71.7	81.9	1.10 U	13.0	2,330	2.20 U	100.	15.9
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.00200 U	19,100	8.80 U	301.	7,920	2.20 U	39.9	12,300	7.50	156.	22.0 U
SED-B-08-01-0.5	'0-0.5	5/15/2008											
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.00170	12,000	1.90 U	89.9	386.	0.670	138.	11,500	2.70 U	145.	8.90
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.00240	8,160	2.90 U	32.2	2,720	0.740 U	68.1	54,100	1.50 U	24.8	7.40 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acid Volatile Sulfide	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Hexavalent	Chromium	Cobalt
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.00100	4,150	2.50 U	27.2	9,690	0.630 U	*49.4*	15,400	1.30 U	22.1	6.30 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.00110	9,550	2.40 U	25.5	154.	0.600 U	*184.*	127,000	1.80 U	57.5	6.10
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.00130	4,440	2.20 U	16.1	88.0	0.560 U	*193.*	158,000	1.70 U	33.8	5.60 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.00210	7,830	2.50 U	38.1	5,800	0.620 U	*44.8*	4,330	1.80 U	48.0	6.20 U
SED-C-08-01-0.5	'0-0.5	5/15/2008											
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.00460	15,300	2.40 U	53.3	1,020	0.720	0.0000260	11,800	3.70 U	94.0	9.60
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.00100 U	15,400	2.30 U	15.7	987.	0.650	2.40	46,500	2.90 U	43.9	8.00
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.00100 U	11,600	2.30 U	62.1	949.	0.590 U	*20.4*	62,200	3.00 U	77.2	7.10
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.000110	17,800	2.20 U	10.7	883.	0.800	0.560 U	19,000	2.30 U	40.2	9.40
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.00100 U	11,600	2.30 U	*75.2*	1,290	0.560 U	*25.4*	17,500	2.90 U	75.1	6.70
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.000200 UJ	18,300 J	8.10 UJ	*87.6 J*	6,600 J	2.00 UJ	*27.2 J*	7,580 J	4.00 U	165. J	20.0 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006		15,200 J	5.30 UJ	*72.4 J*	2,740 J	1.30 UJ	*26.2 J*	9,270 J	2.70 U	143. J	13.0 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.000220 J	15,900 J	6.30 UJ	*81.5 J*	4,560 J	1.60 UJ	*26.7 J*	9,650 J	3.30 U	143. J	16.0 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006		15,600 J	5.30 UJ	*95.7 J*	3,190 J	1.30 UJ	*41.7 J*	53,700 J	2.80 U	160. J	13.0 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006		11,000	4.00 UJ	67.9	3,490	1.00 U	*29.6*	43,700 J	1.90 U	77.0	10.0 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006		11,900 J	7.30 UJ	54.4 J	6,490 J	1.80 UJ	*12.2 J*	34,000 J	3.80 U	78.1 J	18.0 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.000300 UJ	29,300 J	12.0 UJ	*147. J*	10,100 J	3.00 UJ	*34.1 J*	12,500 J	6.10 U	263. J	30.0 UJ
SED-DC-1	'0-0.5	9/20/2001		14,700 J	2.40 J	29.0 J	1,010 J	1.10 UJ	*14.4 J*	29,500 J		149. J	20.6 J
SED-DC-2	'0-0.5	9/20/2001		9,910 J	2.50 J	29.7	2,160 J	1.40	6.00	11,200		209.	31.7
SED-DC-3	'0-0.5	9/20/2001		14,100 J	3.90 J	33.6 J	1,400 J	1.90 UJ	*87.5 J*	53,200 J		344. J	27.0 J
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.00200 UJ	11,400 J	10.0 UJ	69.7 J	3,920 J	2.50 UJ	7.30 J	4,310 J	5.00 U	72.3 J	25.0 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006		11,000 J	4.20 UJ	57.1 J	2,570 J	1.10 UJ	*18.5 J*	22,200 J	2.10 U	56.7 J	11.0 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.000250 J	12,300 J	1.70 UJ	56.3 J	301. J	0.740 J	*21.4 J*	9,010 J	5.00 J	110. J	8.20 J
SED-E-2-1.0-1.5	'1-1.5	10/5/2006		18,800 J	4.80 UJ	17.7 J	791. J	1.20 UJ	2.70 J	14,200 J	2.40 U	35.3 J	12.0 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006		21,700 J	4.80 UJ	9.00 J	48.5 J	1.20 UJ	1.20 UJ	2,030 J	2.30 U	38.0 J	12.0 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.00200 UJ	19,100 J	11.0 UJ	61.4 J	11,500 J	2.70 UJ	*13.5 J*	6,710 J	5.20 U	172. J	27.0 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.00100 U	11,900	3.50 U	17.8	2,310	0.870 U	3.20	15,700	1.80 U	60.3	16.0
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.00170	8,510	3.30 U	46.7	3,330	0.830 U	*14.0*	41,500	1.70 U	83.9	8.30 U
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.00120	6,260	2.80 U	13.3	1,880	0.710 U	2.40	7,250	1.40 U	35.5	7.10 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.00140	7,540	3.20 U	17.5	2,540	0.800 U	3.10	9,870	1.60 U	45.0	8.00 U
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.000100 UJ	16,400 J	4.90 UJ	16.4 J	509. J	1.30 J	3.80 J	8,300 J	2.50 U	85.2 J	12.0 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.000100 UJ	18,400 J	4.60 UJ	14.8 J	333. J	1.20 J	1.10 UJ	4,740 J	2.40 U	73.6 J	11.6 J
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.000100 UJ	20,400 J	4.30 UJ	14.0 J	72.5 J	1.30 J	1.10 UJ	3,480 J	2.10 U	45.8 J	13.0 J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Copper	Elemental Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury	Methyl Mercury	Nickel
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL			34			47				0.15		21
Sediment ERM			270			218				0.71		52
SED-1 (0.0-0.5FT)	'0-0.5	08/22/01	83.8		24,000 J	93.7	5,990 J	240.		155.		28.4
SED-1 (0.5-1.0FT)	'0.5-1	08/22/01	131.		19,400 J	142.	22,400 J	534.		110.		30.5
SED-1 (1.0-1.5FT)	'1-1.5	08/22/01	100.		10,400 J	85.9	73,600 J	278.		122.		14.6
SED-2 (0.0-0.5FT)	'0-0.5	08/22/01	190.		157,000 J	294.	10,900 J	461.		412.		33.2
SED-2 (0.5-1.0FT)	'0.5-1	08/22/01	99.8		16,600 J	193.	8,120 J	205.		41.1		19.7
SED-2 (1.0-1.5FT)	'1-1.5	08/22/01	200.		14,900 J	280.	11,200 J	761.		22.0		31.0
SED-3 (0.0-0.5FT)	'0-0.5	08/22/01	59.3		9,780 J	177.	1,540 J	45.7		98.3		12.3
SED-3 (0.5-1.0FT)	'0.5-1	08/22/01	142. J		15,200 J	120. J	12,200 J	334. J		446. J		21.3 J
SED-3 (1.0-1.5FT)	'1-1.5	08/22/01	18.9 J		22,400 J	8.70 J	6,310 J	132. J		4.80 J		21.4 J
SED-4 (0.0-0.5FT)	'0-0.5	08/22/01	162. J		16,000 J	2,130 J	21,400 J	426. J		367. J		21.4 J
SED-4 (0.5-1.0FT)	'0.5-1	08/22/01	59.7		9,790	112.	6,300	101.		865.		8.20
SED-5 (0.0-0.5FT)	'0-0.5	08/22/01	62.2 J		29,300 J	59.0 J	9,140 J	284. J		163. J		27.9 J
SED-5 (0.5-1.0FT)	'0.5-1	08/22/01	18.8 J		39,700 J	15.5 J	9,300 J	332. J		3.40 J		28.7 J
SED-5 (1.0-1.5FT)	'1-1.5	08/22/01	16.5 J		39,600 J	13.3 J	9,020 J	400. J		1.30 J		27.4 J
SED-6 (0.0-0.5FT)	'0-0.5	11/20/01	93.7 J		24,600 J	82.7 J	8,560 J	159. J		140. J		35.2 J
SED-6 (0.5-1.0FT)	'0.5-1	11/20/01	18.4 J		30,400 J	13.8 J	7,410 J	134. J		8.70 J		32.9 J
SED-6 (1.0-1.5FT)	'1-1.5	11/20/01	13.4 J		19,000 J	10.4 J	6,450 J	80.9 J		4.80 J		16.0 UJ
SED-7	'0-0.5	10/10/06	290.		54,800	668.	11,800	284.		242.	0.0369	40.8
SED-8	'0-0.5	10/10/06	303.		72,400	475.	10,900	337.		219.	0.0488	38.2
SED-9	'0-0.5	10/10/06	147.		27,300	339.	6,680	148.		136.	0.0345	22.8
SED-A-08-2-0.5	'0-0.5	5/15/2008		45.5					3.91		0.0442	
SED-A-08-2-1.0	'0-1	5/15/2008		38.3					11.9		0.0397	
SED-A-08-2-1.5	'0-1.5	5/15/2008		117.					61.1		0.0298	
SED-A-08-2-2.0	'0-2	5/15/2008		68.1					11.1		0.00115	
SED-A-08-2-2.5	'0-2.5	5/15/2008		4.99					0.281		0.000827	
SED-A-1-0-0.5	'0-0.5	10/9/2006	519.		247,000	717.	10,300	1,300		368.	0.106	64.0
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	541.		37,200	2,640	6,770	271.		9.70	0.000300 B	45.5
SED-A-2-0-0.5	'0-0.5	10/9/2006	1,100		44,300	3,950	4,990	226.		305.	0.0190	84.3
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	333.		37,600	319.	7,880	327.		6.10	0.000200 U	40.7
SED-A-3-0-0.5	'0-0.5	10/9/2006	403.		71,400	1,160	10,600	346.		114.	0.0435	54.4
SED-B-08-01-0.5	'0-0.5	5/15/2008		43.8					19.1		0.0531	
SED-B-1-0-0.5	'0-0.5	10/6/2006	326.		32,500	1,280	7,180	207.		181.	0.0308	31.2
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	79.5		18,700	179.	11,500	196.		34.1	0.00660	29.2

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Copper	Elemental Mercury	Iron	Lead	Magnesium	Manganese	Mercuric Sulfide (Cinnabar)	Mercury	Methyl Mercury	Nickel
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SED-B-2-0-0.5	'0-0.5	10/6/2006	54.7		11,600	187.	3,130	61.2		47.8	0.00520	11.7
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	249.		18,200	922.	6,970	190.		126.	0.0180	12.6
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	160.		9,810	872.	1,750	85.3		145.	0.0147	5.70
SED-B-3-0-0.5	'0-0.5	10/6/2006	119.		17,400	334.	3,850	96.9		28.2	0.0165	15.7
SED-C-08-01-0.5	'0-0.5	5/15/2008		376.					151.		0.0387	
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.000230		32,700	0.000190	10,600	233.		0.0000000900 U	0.00590 J	0.000150
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	57.9		27,500	37.6	21,700	254.		901.	0.0134 J	23.8
SED-C-2-0-0.5	'0-0.5	10/6/2006	181.		27,100	179.	21,400	234.		593.	0.0300 J	28.0
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	29.3		34,700	21.2	8,720	288.		375.	0.000600 B	24.7
SED-C-3-0-0.5	'0-0.5	10/6/2006	178.		28,200	227.	9,520	182.		184.	0.0206 J	24.6
SED-D-1-0-0.5	'0-0.5	10/5/2006	392. J		42,300 J	366. J	10,500 J	292. J		187. J	0.0227 J	49.0 J
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	335. J		36,700 J	309. J	8,200 J	295. J		179. J	0.0130 J	44.7 J
SED-D-2-0-0.5	'0-0.5	10/5/2006	357. J		38,200 J	333. J	9,530 J	290. J		180. J	0.00930 J	46.1 J
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	348. J		34,600 J	363. J	13,400 J	565. J		392. J	0.00910 J	51.4 J
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	181.		22,100	174.	11,700	386.		152.	0.00860 J	35.9
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	171. J		21,900 J	143. J	14,200 J	370. J		220. J	0.00740 J	32.2 J
SED-D-3-0-0.5	'0-0.5	10/5/2006	717. J		59,000 J	666. J	15,400 J	445. J		187. J	0.0178 J	85.1 J
SED-DC-1	'0-0.5	9/20/2001	3,630 J		74,400 J	429. J	8,430 J	891. J		3,890 J		159. J
SED-DC-2	'0-0.5	9/20/2001	18,000		152,000	791.	5,640	841.		972.		141.
SED-DC-3	'0-0.5	9/20/2001	7,030 J		133,000 J	807. J	9,670 J	4,810 J				372. J
SED-E-1-0-0.5	'0-0.5	10/3/2006	227. J		27,300 J	152. J	6,950 J	176. J		32.3 J	0.0159 J	37.3 J
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	139. J		23,500 J	125. J	8,600 J	272. J		98.8 J	0.00480 J	27.6 J
SED-E-2-0-0.5	'0-0.5	10/5/2006	261. J		28,100 J	222. J	6,700 J	215. J		160. J	0.00630 J	34.1 J
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	30.9 J		32,900 J	30.9 J	9,660 J	346. J		12.9 J	0.00120 J	27.8 J
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	17.9 J		37,400 J	13.3 J	8,430 J	345. J		0.0720 UJ	0.000400 B	27.0 J
SED-E-3-0-0.5	'0-0.5	10/3/2006	363. J		40,700 J	302. J	10,400 J	347. J		173. J	0.0192 J	51.2 J
SED-F-1-0-0.5	'0-0.5	10/4/2006	88.1		29,900	158.	11,900	350.		24.5	0.00630	36.1
SED-F-2-0-0.5	'0-0.5	10/4/2006	208.		16,900	161.	19,500	315.		128.	0.0126	30.4
SED-F-3-0-0.5	'0-0.5	10/4/2006	66.8		14,500	58.2	4,580	172.		27.8	0.0193	17.5
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	69.7		16,000	112.	5,270	171.		16.1	0.0185	19.6
SED-G-1-0-0.5	'0-0.5	10/2/2006	172. J		35,300 J	129. J	8,270 J	469. J		12.5 J	0.00260	35.6 J
SED-G-2-0-0.5	'0-0.5	10/2/2006	129. J		39,900 J	104. J	7,970 J	536. J		3.20 J	0.00460 J	31.8 J
SED-G-3-0-0.5	'0-0.5	10/2/2006	55.2 J		36,100 J	111. J	8,050 J	517. J		0.860 J	0.000200 J	31.8 J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Organo-Chelated Mercury	Potassium	Selenium	Sem/Avs	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL							1			
Sediment ERM							3.7			
SED-1 (0.0-0.5FT)	'0-0.5	08/22/01		1,130	1.40		1.30 U	2,500		1.30 U
SED-1 (0.5-1.0FT)	'0.5-1	08/22/01		1,380	1.40 U		*4.60*	3,580		1.40 U
SED-1 (1.0-1.5FT)	'1-1.5	08/22/01		777.	1.50 U		3.60	2,870		1.50 U
SED-2 (0.0-0.5FT)	'0-0.5	08/22/01		1,840	7.10		3.50	9,620		2.50 U
SED-2 (0.5-1.0FT)	'0.5-1	08/22/01		774.	1.20 U		1.20 U	1,760		1.20 U
SED-2 (1.0-1.5FT)	'1-1.5	08/22/01		790. U	1.60 U		1.80	3,000		1.60 U
SED-3 (0.0-0.5FT)	'0-0.5	08/22/01		760. U	1.50 U		2.40	3,270		1.50 U
SED-3 (0.5-1.0FT)	'0.5-1	08/22/01		3,360 J	2.30 UJ		2.30 UJ	9,510 J		2.30 UJ
SED-3 (1.0-1.5FT)	'1-1.5	08/22/01		5,160 J	3.70 UJ		3.70 UJ	17,000 J		3.70 UJ
SED-4 (0.0-0.5FT)	'0-0.5	08/22/01		1,290 J	2.10 UJ		3.20 J	8,360 J		2.10 UJ
SED-4 (0.5-1.0FT)	'0.5-1	08/22/01		1,060	1.70 U		1.70 U	6,560		1.70 U
SED-5 (0.0-0.5FT)	'0-0.5	08/22/01		4,830 J	3.50 UJ		3.50 UJ	16,000 J		3.50 UJ
SED-5 (0.5-1.0FT)	'0.5-1	08/22/01		5,550 J	2.90 UJ		2.90 UJ	13,400 J		2.90 UJ
SED-5 (1.0-1.5FT)	'1-1.5	08/22/01		5,520 J	2.50 UJ		2.50 UJ	13,600 J		2.50 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/01		4,920 J	5.40 UJ		5.40 UJ	28,500 J		5.40 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/01		5,190 J	3.90 UJ		3.90 UJ	19,500 J		3.90 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/01		5,190 J	4.10 UJ		4.10 UJ	20,400 J		4.10 UJ
SED-7	'0-0.5	10/10/06		3,220	7.80 U	0.0103	*4.50*	16,900		12.0 U
SED-8	'0-0.5	10/10/06		2,690	5.10 U	0.0146	2.90	8,990		7.60 U
SED-9	'0-0.5	10/10/06		1,430	3.60 U	0.0136	1.80	4,760		8.90 U
SED-A-08-2-0.5	'0-0.5	5/15/2008	1.70						0.0199	
SED-A-08-2-1.0	'0-1	5/15/2008	0.926						0.0855	
SED-A-08-2-1.5	'0-1.5	5/15/2008	0.618						0.212	
SED-A-08-2-2.0	'0-2	5/15/2008	0.129						2.49	
SED-A-08-2-2.5	'0-2.5	5/15/2008	0.101						0.536	
SED-A-1-0-0.5	'0-0.5	10/9/2006		3,860	9.30 U	0.0163	*6.90*	10,900		4.70 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006		3,910	5.40		2.20 U	7,910		2.20 U
SED-A-2-0-0.5	'0-0.5	10/9/2006		3,130	18.9		3.60	7,410		2.10 U
SED-A-2-1.0-1.5	'1-1.5	10/9/2006		4,550	4.30 U		2.20 U	8,150		2.20 U
SED-A-3-0-0.5	'0-0.5	10/9/2006		3,960	8.80 U	0.0172	*7.20*	17,900		4.40 U
SED-B-08-01-0.5	'0-0.5	5/15/2008	3.25						0.000260 U	
SED-B-1-0-0.5	'0-0.5	10/6/2006		2,590	1.90 U	0.0420	*5.00*	9,450		1.90 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006		1,460	2.90 U	0.107	1.50 U	3,260		1.50 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Organo-Chelated Mercury	Potassium	Selenium	Sem/Avs	Silver	Sodium	Stomach Acid Soluble Mercury	Thallium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SED-B-2-0-0.5	'0-0.5	10/6/2006		630. U	2.50 U	0.0124	1.30 U	2,030		1.30 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006		2,100	2.40 U	0.652	1.20 U	5,740		1.20 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006		1,020	2.20 U	0.0502	1.10 U	5,010		2.20 U
SED-B-3-0-0.5	'0-0.5	10/6/2006		1,320	2.50 U	0.00753	1.90	4,180		6.20 U
SED-C-08-01-0.5	'0-0.5	5/15/2008	26.6						0.000860 Z-01b	
SED-C-1-0-0.5	'0-0.5	10/6/2006		3,800	2.40 U	0.000695	3.60	17,600		1.20 U
SED-C-2-0.5-1.0	'0.5-1	10/6/2006		4,000	2.30 U	0.0196	1.20 U	14,700		1.20 U
SED-C-2-0-0.5	'0-0.5	10/6/2006		2,820	2.30 U	0.0155	2.60	13,600		1.20 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006		4,200	2.20 U	0.00753	1.10 U	11,800		1.10 U
SED-C-3-0-0.5	'0-0.5	10/6/2006		2,140	2.30 U	0.0203	2.90	11,800		1.10 U
SED-D-1-0-0.5	'0-0.5	10/5/2006		4,290 J	8.10 UJ	0.00 UJ	*6.90 J*	17,400 J		4.00 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006		3,050 J	5.30 UJ		*5.80 J*	8,960 J		2.60 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006		3,490 J	6.30 UJ	0.00 UJ	*6.20 J*	13,200 J		3.20 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006		3,060 J	5.30 UJ		*6.40 J*	10,700 J		2.70 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006		1,590	4.00 U		*4.40 J*	4,920		2.00 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006		2,890 J	7.30 UJ		*6.30 J*	17,100 J		3.70 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006		6,910 J	12.0 UJ	0.00 UJ	*8.10 J*	25,400 J		5.90 UJ
SED-DC-1	'0-0.5	9/20/2001		2,460 J	2.10 UJ		*16.7 J*	1,100 J		2.10 UJ
SED-DC-2	'0-0.5	9/20/2001		1,010	1.70 U		2.90	870. U		3.50 U
SED-DC-3	'0-0.5	9/20/2001		1,900 UJ	3.70 UJ		*53.2 J*	1,900 UJ		3.70 UJ
SED-E-1-0-0.5	'0-0.5	10/3/2006		3,230 J	10.0 UJ	0.00611 J	5.10 UJ	22,500 J		5.10 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006		2,330 J	4.20 UJ		2.10 UJ	6,750 J		2.10 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006		2,580 J	2.00 J	0.00 UJ	*5.70 J*	9,810 J		0.860 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006		4,460 J	4.80 UJ		2.40 UJ	10,600 J		2.40 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006		5,130 J	4.80 UJ		2.40 UJ	11,000 J		2.40 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006		4,680 J	11.0 UJ	0.00781 J	*5.50 J*	22,300 J		5.30 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006		1,750	3.50 U	0.0106	1.70 U	4,600		1.70 U
SED-F-2-0-0.5	'0-0.5	10/4/2006		1,200	3.30 U	0.00156	*6.40*	4,630		1.70 U
SED-F-3-0-0.5	'0-0.5	10/4/2006		1,290	2.80 U	0.00335	1.40 U	2,760		1.40 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006		1,410	3.20 U	0.00212	1.60 U	3,720		1.60 U
SED-G-1-0-0.5	'0-0.5	10/2/2006		3,650 J	4.90 UJ	0.00 UJ	2.50 UJ	8,330 J		2.50 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006		3,750 J	4.60 UJ	0.00 UJ	2.30 UJ	8,740 J		2.30 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006		3,920 J	4.30 UJ	0.00 UJ	2.20 UJ	7,770 J		2.20 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury by SSE Summation	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL							150
Sediment ERM							410
SED-1 (0.0-0.5FT)	'0-0.5	08/22/01			30.1		*856. J*
SED-1 (0.5-1.0FT)	'0.5-1	08/22/01			26.8		406. J
SED-1 (1.0-1.5FT)	'1-1.5	08/22/01			14.6		179. J
SED-2 (0.0-0.5FT)	'0-0.5	08/22/01			51.9		*2,220 J*
SED-2 (0.5-1.0FT)	'0.5-1	08/22/01			19.0		*2,950 J*
SED-2 (1.0-1.5FT)	'1-1.5	08/22/01			17.0		*6,960 J*
SED-3 (0.0-0.5FT)	'0-0.5	08/22/01			15.8		*1,290 J*
SED-3 (0.5-1.0FT)	'0.5-1	08/22/01			26.2 J		*448. J*
SED-3 (1.0-1.5FT)	'1-1.5	08/22/01			55.1 J		52.1 J
SED-4 (0.0-0.5FT)	'0-0.5	08/22/01			17.8 J		*3,620 J*
SED-4 (0.5-1.0FT)	'0.5-1	08/22/01			11.1		*1,970*
SED-5 (0.0-0.5FT)	'0-0.5	08/22/01			49.8 J		176. J
SED-5 (0.5-1.0FT)	'0.5-1	08/22/01			56.6 J		95.6 J
SED-5 (1.0-1.5FT)	'1-1.5	08/22/01			53.4 J		79.0 J
SED-6 (0.0-0.5FT)	'0-0.5	11/20/01			53.3 J		247. J
SED-6 (0.5-1.0FT)	'0.5-1	11/20/01			48.3 J		65.5 J
SED-6 (1.0-1.5FT)	'1-1.5	11/20/01			50.9 J		28.7 J
SED-7	'0-0.5	10/10/06			70.9		*2,230*
SED-8	'0-0.5	10/10/06			64.1		*1,480*
SED-9	'0-0.5	10/10/06			36.7		*1,020*
SED-A-08-2-0.5	'0-0.5	5/15/2008	51.5	39.9		0.339	
SED-A-08-2-1.0	'0-1	5/15/2008	51.3	51.3		0.0620	
SED-A-08-2-1.5	'0-1.5	5/15/2008	179.	110.		0.102	
SED-A-08-2-2.0	'0-2	5/15/2008	81.9	60.8		0.0822	
SED-A-08-2-2.5	'0-2.5	5/15/2008	5.94	8.10		0.0278	
SED-A-1-0-0.5	'0-0.5	10/9/2006			129.		*2,410*
SED-A-2-0.5-1.0	'0.5-1	10/9/2006			52.4		*9,850*
SED-A-2-0-0.5	'0-0.5	10/9/2006			77.0		*2,710*
SED-A-2-1.0-1.5	'1-1.5	10/9/2006			59.7		*4,120*
SED-A-3-0-0.5	'0-0.5	10/9/2006			108.		*2,470*
SED-B-08-01-0.5	'0-0.5	5/15/2008	66.3	157.		0.168	
SED-B-1-0-0.5	'0-0.5	10/6/2006			47.0		*6,950*
SED-B-2-0.5-1.0	'0.5-1	10/6/2006			24.7		*1,910*

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total Mercury by SSE Summation	Total Mercury	Vanadium	Water Soluble Mercury	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SED-B-2-0-0.5	'0-0.5	10/6/2006			13.3		*4,140*
SED-B-2-1.0-1.5	'1-1.5	10/6/2006			23.2		*5,120*
SED-B-2-1.5-2.0	'1.5-2	10/6/2006			11.8		*6,600*
SED-B-3-0-0.5	'0-0.5	10/6/2006			24.6		*1,850*
SED-C-08-01-0.5	'0-0.5	5/15/2008	557.	216.		3.06	
SED-C-1-0-0.5	'0-0.5	10/6/2006			47.1		0.00260
SED-C-2-0.5-1.0	'0.5-1	10/6/2006			37.2		135.
SED-C-2-0-0.5	'0-0.5	10/6/2006			35.9		*856.*
SED-C-2-1.0-1.5	'1-1.5	10/6/2006			41.2		85.3
SED-C-3-0-0.5	'0-0.5	10/6/2006			35.4		*1,000*
SED-D-1-0-0.5	'0-0.5	10/5/2006			63.0 J		*1,290 J*
SED-D-2-0.5-1.0	'0.5-1	10/5/2006			52.5 J		*1,070 J*
SED-D-2-0-0.5	'0-0.5	10/5/2006			55.3 J		*1,300 J*
SED-D-2-1.0-1.5	'1-1.5	10/5/2006			51.1 J		*1,420 J*
SED-D-2-1.5-2.0	'1.5-2	10/5/2006			48.9		*854. J*
SED-D-2-2.0-2.5	'2-2.5	10/5/2006			35.1 J		*644. J*
SED-D-3-0-0.5	'0-0.5	10/5/2006			101. J		*1,750 J*
SED-DC-1	'0-0.5	9/20/2001			123. J		*1,030 J*
SED-DC-2	'0-0.5	9/20/2001			87.9		*841.*
SED-DC-3	'0-0.5	9/20/2001			81.1 J		*1,950 J*
SED-E-1-0-0.5	'0-0.5	10/3/2006			42.1 J		392. J
SED-E-2-0.5-1.0	'0.5-1	10/5/2006			32.6 J		*645. J*
SED-E-2-0-0.5	'0-0.5	10/5/2006			37.5 J		*759. J*
SED-E-2-1.0-1.5	'1-1.5	10/5/2006			44.0 J		159. J
SED-E-2-1.5-2.0	'1.5-2	10/5/2006			44.5 J		80.0 J
SED-E-3-0-0.5	'0-0.5	10/3/2006			60.5 J		*845. J*
SED-F-1-0-0.5	'0-0.5	10/4/2006			42.4		399.
SED-F-2-0-0.5	'0-0.5	10/4/2006			28.9		*598.*
SED-F-3-0-0.5	'0-0.5	10/4/2006			17.5		252.
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006			25.6		274.
SED-G-1-0-0.5	'0-0.5	10/2/2006			44.9 J		259. J
SED-G-2-0-0.5	'0-0.5	10/2/2006			48.0 J		202. J
SED-G-3-0-0.5	'0-0.5	10/2/2006			47.7 J		135. J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL											
Sediment ERM											
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0470 U	0.0470 U	0.0470 U	0.0470 U	0.0470 U	0.0470 U	0.0470 U	0.0470 U	0.0470 U
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0140 U	0.0140 U	0.0140 U	0.0140 U	0.0140 U	0.0140 U	0.0140 U	0.0140 U	0.0140 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00850 UJ	0.00850 UJ	0.00850 UJ	0.00850 UJ	0.00850 UJ	0.00850 UJ	0.00850 UJ	0.00850 UJ	0.00850 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0130 UJ	0.0130 UJ	0.0130 UJ	0.0130 UJ	0.0130 UJ	0.0130 UJ	0.0130 UJ	0.0130 UJ	0.0130 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.00780 UJ	0.00780 UJ	0.00780 UJ	0.00780 UJ	0.00780 UJ	0.00780 UJ	0.00780 UJ	0.00780 UJ	0.00780 UJ
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0120 UJ	0.0120 UJ	0.0120 UJ	0.0120 UJ	0.0120 UJ	0.0120 UJ	0.0120 UJ	0.0120 UJ	0.0120 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00910 UJ	0.00910 UJ	0.00910 UJ	0.00910 UJ	0.00910 UJ	0.00910 UJ	0.00910 UJ	0.00910 UJ	0.00910 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.00290 UJ	0.00290 UJ	0.00290 UJ	0.00290 UJ	0.00290 UJ	0.00290 UJ	0.00290 UJ	0.00290 UJ	0.00290 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.00310 UJ	0.00310 UJ	0.00310 UJ	0.00310 UJ	0.00310 UJ	0.00310 UJ	0.00310 UJ	0.00310 UJ	0.00310 UJ
SED-7	'0-0.5	10/10/2006	0.00110 U	0.000970 U	0.00140 U	0.00110 U	0.00190 U	0.00100 U	0.00130 U	0.00140 U	0.00140 U
SED-8	'0-0.5	10/10/2006	0.000750 U	0.000630 U	0.000910 U	0.000740 U	0.00120 U	0.000680 U	0.000860 U	0.000910 U	0.000900 U
SED-9	'0-0.5	10/10/2006	0.000530 U	0.000450 U	0.000650 U	0.000520 U	0.000890 U	0.000480 U	0.000610 U	0.000640 U	0.000640 U
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.00140 U	0.0280	0.00170 U	0.00140 U	0.00230 U	0.00130 U	0.00160 U	0.00170 U	0.00170 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.000650 U	0.000550 U	0.000790 U	0.000640 U	0.00110 U	0.000590 U	0.000740 U	0.000790 U	0.000780 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.000620 U	0.000520 U	0.000760 U	0.000610 U	0.00100 U	0.000570 U	0.000710 U	0.000760 U	0.000750 U
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.000630 U	0.000530 U	0.000770 U	0.000620 U	0.00110 U	0.000570 U	0.000720 U	0.000760 U	0.000750 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.00130 U	0.00110 U	0.00160 U	0.00130 U	0.00210 U	0.00120 U	0.00150 U	0.00150 U	0.00150 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.000800 U	0.000670 U	0.000980 U	0.000790 U	0.00130 U	0.000730 U	0.000920 U	0.000980 U	0.000960 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.000420 U	0.000360 U	0.000520 U	0.000420 U	0.000710 U	0.000390 U	0.000480 U	0.000510 U	0.000510 U
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.000380 U	0.000320 U	0.000460 U	0.000370 U	0.000630 U	0.000350 U	0.000430 U	0.000460 U	0.000450 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.000540 U	0.0307	0.121	0.0896	0.000900 U	0.0383	15.0	0.000650 U	0.000640 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.000510 U	0.000430 U	0.000620 U	0.000500 U	0.000850 U	0.000460 U	0.000580 U	0.000610 U	0.000610 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.000530 U	0.000440 U	0.000650 U	0.000520 U	0.000880 U	0.000480 U	0.000610 U	0.000640 U	0.000640 U
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.00110 U	0.000910 U	0.00130 U	0.00110 U	0.00180 U	0.000990 U	0.00120 U	0.00130 U	0.00130 U
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.000840 U	0.000710 U	0.00100 U	0.000830 U	0.00140 U	0.000770 U	0.000960 U	0.00100 U	0.00100 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aldrin	Alpha-BHC	Alpha-Chlordane	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Dieldrin	Endosulfan I	Endosulfan II
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.000860 U	0.000730 U	0.00110 U	0.000850 U	0.00140 U	0.000790 U	0.000990 U	0.00110 U	0.00100 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.000660 U	0.000560 U	0.000810 U	0.000650 U	0.00110 U	0.000610 U	0.000760 U	0.000800 U	0.000800 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.000840 U	0.000710 U	0.00100 U	0.000830 U	0.00140 U	0.000770 U	0.000970 U	0.00100 U	0.00100 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.00120 UJ	0.00100 UJ	0.00150 UJ	0.00120 UJ	0.00200 UJ	0.00110 UJ	0.00140 UJ	0.00140 UJ	0.00140 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.000790 UJ	0.000660 UJ	0.000970 UJ	0.000780 UJ	0.00130 UJ	0.000720 UJ	0.00800 J	0.000960 UJ	0.000950 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.000950 UJ	0.000800 UJ	0.00120 UJ	0.000940 UJ	0.00160 UJ	0.000870 UJ	0.00950 J	0.00120 UJ	0.00110 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.000810 UJ	0.000680 UJ	0.000990 UJ	0.000790 UJ	0.00130 UJ	0.000740 UJ	0.0117 JN	0.000980 UJ	0.000970 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.000550 U	0.000460 U	0.000680 U	0.000540 U	0.000920 U	0.000500 U	0.000630 U	0.000670 U	0.000660 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.00110 UJ	0.000930 UJ	0.00130 UJ	0.00110 UJ	0.00180 UJ	0.00100 UJ	0.00130 UJ	0.00130 UJ	0.00130 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.00180 UJ	0.00150 UJ	0.00220 UJ	0.00170 UJ	0.00300 UJ	0.00160 UJ	0.00200 UJ	0.00220 UJ	0.00210 UJ
SED-DC-1	'0-0.5	9/20/2001	0.00790 UJ	0.00790 UJ	0.00790 UJ	0.00790 UJ	0.00790 UJ	0.00790 UJ	0.00790 UJ	0.00790 UJ	0.00790 UJ
SED-DC-2	'0-0.5	9/20/2001	0.00870 U	0.00870 U	0.00870 U	0.00870 U	0.00870 U	0.00870 U	0.00870 U	0.00870 U	0.00870 U
SED-DC-3	'0-0.5	9/20/2001	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.00150 UJ	0.00120 UJ	0.00180 UJ	0.00140 UJ	0.00240 UJ	0.00130 UJ	0.00170 UJ	0.00180 UJ	0.00180 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.000610 UJ	0.000520 UJ	0.000750 UJ	0.000610 UJ	0.00100 UJ	0.000560 UJ	0.00670 J	0.000750 UJ	0.000740 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.000750 UJ	0.000630 UJ	0.000920 UJ	0.000740 UJ	0.00130 UJ	0.000690 UJ	0.000860 UJ	0.000910 UJ	0.000900 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.000690 UJ	0.000580 UJ	0.000850 UJ	0.000680 UJ	0.00120 UJ	0.000630 UJ	0.000790 UJ	0.000840 UJ	0.000830 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.000670 UJ	0.000560 UJ	0.000820 UJ	0.000660 UJ	0.00110 UJ	0.000610 UJ	0.000770 UJ	0.000810 UJ	0.000800 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.00150 UJ	0.00130 UJ	0.00190 UJ	0.00150 UJ	0.00250 UJ	0.00140 UJ	0.0103 J	0.00180 UJ	0.00180 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.000530 U	0.000440 U	0.000650 U	0.000520 U	0.000880 U	0.000480 U	0.000600 U	0.000640 U	0.000630 U
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.000510 U	0.000430 U	0.000620 U	0.000500 U	0.000850 U	0.000460 U	0.0131	0.000620 U	0.000610 U
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.000410 U	0.000350 U	0.000500 U	0.000410 U	0.000690 U	0.000380 U	0.000470 U	0.000500 U	0.000500 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.00220 U	0.00220 U	0.00220 U	0.00220 U	0.00220 U	0.00220 U	0.00220 U	0.00220 U	0.00220 U
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.000740 UJ	0.000620 UJ	0.000900 UJ	0.000730 UJ	0.00120 UJ	0.000670 UJ	0.000840 UJ	0.000900 UJ	0.000880 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.000690 UJ	0.000580 UJ	0.000850 UJ	0.000680 UJ	0.00120 UJ	0.000630 UJ	0.000790 UJ	0.000840 UJ	0.000830 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.000620 UJ	0.000520 UJ	0.000760 UJ	0.000610 UJ	0.00100 UJ	0.000570 UJ	0.000710 UJ	0.000760 UJ	0.000750 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endosulfan Sulfate	Endrin Aldehyde	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL										
Sediment ERM										
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.00460 U	0.00460 U	0.0120 U	0.00460 U	0.00460 U	0.00460 U	0.00460 U	0.0120 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0470 U	0.0470 U	0.120 U	0.0470 U	0.0470 U	0.0470 U	0.0470 U	0.120 U
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00510 U	0.00510 U	0.0130 U	0.00510 U	0.00510 U	0.00510 U	0.00510 U	0.0130 U
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0250 U	0.0250 U	0.0640 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0640 U
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00410 U	0.00410 U	0.0100 U	0.00410 U	0.00410 U	0.00410 U	0.00410 U	0.0100 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00540 U	0.00540 U	0.0140 U	0.00540 U	0.00540 U	0.00540 U	0.00540 U	0.0140 U
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0140 U	0.0140 U	0.0360 U	0.0140 U	0.0140 U	0.0140 U	0.0140 U	0.0360 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00850 UJ	0.00850 UJ	0.0210 UJ	0.00850 UJ	0.00850 UJ	0.00850 UJ	0.00850 UJ	0.0210 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0130 UJ	0.0130 UJ	0.0340 UJ	0.0130 UJ	0.0130 UJ	0.0130 UJ	0.0130 UJ	0.0340 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.00780 UJ	0.00780 UJ	0.0190 UJ	0.00780 UJ	0.00780 UJ	0.00780 UJ	0.00780 UJ	0.0190 UJ
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00620 U	0.00620 U	0.0160 U	0.00620 U	0.00620 U	0.00620 U	0.00620 U	0.0160 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0120 UJ	0.0120 UJ	0.0300 UJ	0.0120 UJ	0.0120 UJ	0.0120 UJ	0.0120 UJ	0.0300 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0100 UJ	0.0100 UJ	0.0250 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0250 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00910 UJ	0.00910 UJ	0.0230 UJ	0.00910 UJ	0.00910 UJ	0.00910 UJ	0.00910 UJ	0.0230 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.00380 UJ	0.00380 UJ	0.00960 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00960 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.00290 UJ	0.00290 UJ	0.00740 UJ	0.00290 UJ	0.00290 UJ	0.00290 UJ	0.00290 UJ	0.00740 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.00310 UJ	0.00310 UJ	0.00770 UJ	0.00310 UJ	0.00310 UJ	0.00310 UJ	0.00310 UJ	0.00770 UJ
SED-7	'0-0.5	10/10/2006	0.00140 U	0.00120 U	0.00140 U	0.00130 U	0.00140 U	0.00140 U	0.00140 U	0.00170 U
SED-8	'0-0.5	10/10/2006	0.000920 U	0.000800 U	0.000930 U	0.000840 U	0.000910 U	0.000940 U	0.000880 U	0.00110 U
SED-9	'0-0.5	10/10/2006	0.000650 U	0.000570 U	0.000660 U	0.000600 U	0.000650 U	0.000660 U	0.000630 U	0.000800 U
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.00170 U	0.00150 U	0.00170 U	0.00160 U	0.00170 U	0.00170 U	0.00160 U	0.00210 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.000800 U	0.000690 U	0.000810 U	0.000730 U	0.000790 U	0.000810 U	0.000770 U	0.000980 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.000770 U	0.000670 U	0.000770 U	0.000700 U	0.000760 U	0.000780 U	0.000740 U	0.000940 U
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.000770 U	0.000670 U	0.000780 U	0.000710 U	0.000770 U	0.000790 U	0.000740 U	0.000950 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.00160 U	0.00140 U	0.00160 U	0.00140 U	0.00160 U	0.00160 U	0.00150 U	0.00190 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.000990 U	0.000860 U	0.00100 U	0.000910 U	0.000980 U	0.00100 U	0.000950 U	0.00120 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.000520 U	0.000450 U	0.000530 U	0.000480 U	0.000520 U	0.000530 U	0.000500 U	0.000640 U
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.000470 U	0.000400 U	0.000470 U	0.000430 U	0.000460 U	0.000470 U	0.000450 U	0.000570 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.000660 U	0.000570 U	0.410	0.178	0.307	0.000670 U	0.0244	0.000810 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.000620 U	0.000540 U	0.000630 U	0.000570 U	0.000620 U	0.000630 U	0.000600 U	0.000760 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.000650 U	0.000570 U	0.000660 U	0.000600 U	0.000650 U	0.000660 U	0.000620 U	0.000800 U
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.00130 U	0.00120 U	0.00140 U	0.00120 U	0.00130 U	0.00140 U	0.00130 U	0.00160 U
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.00100 U	0.000900 U	0.00100 U	0.000950 U	0.00100 U	0.00110 U	0.000990 U	0.00130 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Endosulfan Sulfate	Endrin Aldehyde	Endrin Ketone	Endrin	Gamma-Chlordane	Heptachlor Epoxide	Heptachlor	Methoxychlor
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.00110 U	0.000920 U	0.00110 U	0.000980 U	0.00110 U	0.00110 U	0.00100 U	0.00130 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.000820 U	0.000710 U	0.000820 U	0.000750 U	0.000810 U	0.000830 U	0.000780 U	0.00100 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.00100 U	0.000900 U	0.00110 U	0.000960 U	0.00100 U	0.00110 U	0.00100 U	0.00130 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.00150 UJ	0.00130 UJ	0.00150 UJ	0.00130 UJ	0.00140 UJ	0.00150 UJ	0.00140 UJ	0.00180 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.000970 UJ	0.000840 UJ	0.000980 UJ	0.000890 UJ	0.000960 UJ	0.000990 UJ	0.000930 UJ	0.00120 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.00120 UJ	0.00100 UJ	0.00120 UJ	0.00110 UJ	0.00120 UJ	0.00120 UJ	0.00110 UJ	0.00140 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.000990 UJ	0.000860 UJ	0.00100 UJ	0.000910 UJ	0.000990 UJ	0.00100 UJ	0.000950 UJ	0.00120 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.000680 U	0.000590 U	0.000690 U	0.000620 U	0.000670 U	0.000690 U	0.000650 U	0.000830 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.00140 UJ	0.00120 UJ	0.00140 UJ	0.00120 UJ	0.00130 UJ	0.00140 UJ	0.00130 UJ	0.00170 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.00220 UJ	0.00190 UJ	0.00220 UJ	0.00200 UJ	0.00220 UJ	0.00220 UJ	0.00210 UJ	0.00270 UJ
SED-DC-1	'0-0.5	9/20/2001	0.00790 UJ	0.00790 UJ	0.0200 UJ	0.00790 UJ	0.00790 UJ	0.00790 UJ	0.00790 UJ	0.198 J
SED-DC-2	'0-0.5	9/20/2001	0.00870 U	0.00870 U	0.0220 U	0.00870 U	0.00870 U	0.00870 U	0.00870 U	0.0220 U
SED-DC-3	'0-0.5	9/20/2001	0.0150 UJ	0.0150 UJ	0.0370 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0370 UJ
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.00180 UJ	0.00160 UJ	0.00180 UJ	0.00160 UJ	0.00180 UJ	0.00180 UJ	0.00170 UJ	0.00220 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.000760 UJ	0.000660 UJ	0.000760 UJ	0.000690 UJ	0.000750 UJ	0.000770 UJ	0.000730 UJ	0.000930 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.000930 UJ	0.000800 UJ	0.000940 UJ	0.000850 UJ	0.000920 UJ	0.000940 UJ	0.000890 UJ	0.00110 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.000850 UJ	0.000740 UJ	0.000860 UJ	0.000780 UJ	0.000840 UJ	0.000870 UJ	0.000820 UJ	0.00100 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.000820 UJ	0.000720 UJ	0.000830 UJ	0.000760 UJ	0.000820 UJ	0.000840 UJ	0.000790 UJ	0.00100 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.00190 UJ	0.00160 UJ	0.00190 UJ	0.00170 UJ	0.00180 UJ	0.00190 UJ	0.00180 UJ	0.00230 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.000650 U	0.000560 U	0.000660 U	0.000600 U	0.000640 U	0.000660 U	0.000620 U	0.0268
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.000630 U	0.000540 U	0.000630 U	0.000580 U	0.000620 U	0.000640 U	0.000600 U	0.000770 U
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.000510 U	0.000440 U	0.000510 U	0.000470 U	0.000500 U	0.0262	0.000490 U	0.233
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.00220 U	0.00220 U	0.00540 U	0.00220 U	0.00220 U	0.00910	0.00220 U	0.0134
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.000910 UJ	0.000790 UJ	0.000920 UJ	0.000830 UJ	0.000900 UJ	0.000920 UJ	0.000870 UJ	0.00110 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.000850 UJ	0.000740 UJ	0.000860 UJ	0.000780 UJ	0.000840 UJ	0.000870 UJ	0.000820 UJ	0.00100 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.000770 UJ	0.000670 UJ	0.000780 UJ	0.000700 UJ	0.000760 UJ	0.000780 UJ	0.000740 UJ	0.000940 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	P,P'-DDD mg/kg	P,P'-DDE mg/kg	P,P'-DDT mg/kg	Toxaphene mg/kg
Sediment ERL						
Sediment ERM						
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0126	0.00460 U	0.0623	0.0580 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0470 U	0.0470 U	0.0470 U	0.590 U
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00510 U	0.00510 U	0.00510 U	0.0640 U
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0250 U	0.0250 U	0.0250 U	0.320 U
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00410 U	0.00410 U	0.00410 U	0.0510 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00540 U	0.00540 U	0.00540 U	0.0680 U
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0140 U	0.0140 U	0.0140 U	0.180 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00850 UJ	0.00850 UJ	0.00850 UJ	0.100 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0130 UJ	0.0130 UJ	0.0130 UJ	0.170 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.00780 UJ	0.00780 UJ	0.00780 UJ	0.0970 UJ
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00620 U	0.00620 U	0.00620 U	0.0780 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0120 UJ	0.0120 UJ	0.0120 UJ	0.150 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.130 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00910 UJ	0.00910 UJ	0.00910 UJ	0.110 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.00670 J	0.00380 UJ	0.00380 UJ	0.0480 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.00290 UJ	0.00290 UJ	0.00290 UJ	0.0370 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.00310 UJ	0.00310 UJ	0.00310 UJ	0.0380 UJ
SED-7	'0-0.5	10/10/2006	0.0293	0.0214	0.0383	0.0250 U
SED-8	'0-0.5	10/10/2006	0.000820 U	0.000840 U	0.00100 U	0.0160 U
SED-9	'0-0.5	10/10/2006	0.0210	0.000600 U	0.000740 U	0.0110 U
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.0310	0.00160 U	0.00190 U	0.0300 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.000710 U	0.000730 U	0.000900 U	0.0140 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	2.13	0.269	0.0624	0.0130 U
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.000690 U	0.000710 U	0.000870 U	0.0140 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.0348	0.00140 U	0.0283	0.0280 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.000880 U	0.000910 U	0.00110 U	0.0170 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.000460 U	0.000480 U	0.000590 U	0.00910 U
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.00730	0.000430 U	0.000530 U	0.00820 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	2.11	3.72	8.99	0.0120 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.00350	0.000570 U	0.000700 U	0.0110 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.0156	0.000600 U	0.000730 U	0.0110 U
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.0724	0.00120 U	0.00150 U	0.0240 U
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.000920 U	0.000950 U	0.00120 U	0.0180 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	P,P'-DDD	P,P'-DDE	P,P'-DDT	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.000940 U	0.000980 U	0.00120 U	0.0190 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.0107	0.00450	0.000920 U	0.0140 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.0662	0.000950 U	0.00120 U	0.0180 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.0580 J	0.00130 UJ	0.0753 J	0.0260 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.0551 J	0.0204 JN	0.0301 J	0.0170 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.0610 J	0.0226 JN	0.0370 J	0.0210 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.0532 J	0.0322 JN	0.00110 UJ	0.0170 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.0576 JN	0.000620 U	0.000770 U	0.0120 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.00120 UJ	0.00120 UJ	0.00150 UJ	0.0240 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.142 J	0.0386 J	0.00250 UJ	0.0380 UJ
SED-DC-1	'0-0.5	9/20/2001	0.00790 UJ	0.00790 UJ	0.00790 UJ	0.0990 UJ
SED-DC-2	'0-0.5	9/20/2001	0.00870 U	0.00870 U	0.00870 UJ	0.110 U
SED-DC-3	'0-0.5	9/20/2001	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.190 UJ
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.0513 J	0.0175 JN	0.00200 UJ	0.0320 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.137 J	0.0407 J	4.18 J	0.0130 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.0732 J	0.000850 UJ	0.00100 UJ	0.0160 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.000760 UJ	0.000780 UJ	0.000960 UJ	0.0150 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.000730 UJ	0.000750 UJ	0.000930 UJ	0.0140 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.160 J	0.0528 J	0.126 J	0.0330 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.199	0.0290	0.0274	0.0110 U
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.0886	0.0311	0.000710 U	0.0110 U
SED-F-3-0-0.5	'0-0.5	10/4/2006	2.94	0.128	0.433	0.00890 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.230	0.173	0.153	0.0270 U
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.148 J	0.0547 NJ	0.0605 J	0.0160 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.372 J	0.222 J	2.46 J	0.0150 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.000680 UJ	0.000700 UJ	0.000870 UJ	0.0130 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016 mg/kg	Aroclor 1221 mg/kg	Aroclor 1232 mg/kg	Aroclor 1242 mg/kg	Aroclor 1248 mg/kg	Aroclor 1254 mg/kg	Aroclor 1260 mg/kg
Sediment ERM			0.023	0.023	0.023	0.023	0.023	0.023	0.023
Sediment ERM			0.18	0.18	0.18	0.18	0.18	0.18	0.18
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0230 U	0.0230 U	0.0230 U	0.0230 U	0.0230 U	*0.952*	0.0230 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U	0.0240 U
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	*0.439*	0.0250 U
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	0.130 U	0.130 U	0.130 U	0.130 U	0.130 U	*1.12*	0.130 U
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0472	0.0200 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U	0.0270 U
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0720 U	0.0720 U	0.0720 U	0.0720 U	0.0720 U	0.0720 U	0.0720 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0420 UJ	0.0420 UJ	0.0420 UJ	0.0420 UJ	0.0420 UJ	0.0420 UJ	0.0420 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0670 UJ	0.0670 UJ	0.0670 UJ	0.0670 UJ	0.0670 UJ	0.0670 UJ	0.0670 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0390 UJ	0.0390 UJ	0.0390 UJ	0.0390 UJ	0.0390 UJ	0.0390 UJ	0.0390 UJ
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U	0.0310 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0600 UJ	0.0600 UJ	0.0600 UJ	0.0600 UJ	0.0600 UJ	0.0600 UJ	0.0600 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0500 UJ	0.0500 UJ	0.0500 UJ	0.0500 UJ	0.0500 UJ	0.0500 UJ	0.0500 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0460 UJ	0.0460 UJ	0.0460 UJ	0.0460 UJ	0.0460 UJ	0.0460 UJ	0.0460 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.0900 UJ	0.0900 UJ	0.0900 UJ	0.0900 UJ	0.0900 UJ	0.0900 UJ	0.0900 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.0690 UJ	0.0690 UJ	0.0690 UJ	0.0690 UJ	0.0690 UJ	0.0690 UJ	0.0690 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.0760 UJ	0.0760 UJ	0.0760 UJ	0.0760 UJ	0.0760 UJ	0.0760 UJ	0.0760 UJ
SED-7	'0-0.5	10/10/2006	0.0250 U	0.0800 U	0.0720 U	0.0420 U	0.0460 U	*0.547*	0.0270 U
SED-8	'0-0.5	10/10/2006	0.0160 U	0.0510 U	0.0460 U	0.0270 U	0.0290 U	*2.73*	0.0170 U
SED-9	'0-0.5	10/10/2006	0.0110 U	0.0360 U	0.0330 U	0.0190 U	0.0210 U	*0.346*	0.0120 U
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.0300 U	0.0950 U	0.0860 U	0.0500 U	0.0550 U	*0.327*	0.0320 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.0140 U	0.0440 U	0.0400 U	0.0230 U	0.0250 U	0.0350 U	0.0150 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.0130 U	0.0420 U	0.0380 U	0.0220 U	0.0240 U	0.0330 U	0.0140 U
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.0140 U	0.0430 U	0.0390 U	0.0230 U	0.0250 U	0.0340 U	0.0140 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.0270 U	0.0870 U	0.0780 U	0.0460 U	0.0500 U	*0.280*	0.0290 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.0170 U	0.0550 U	0.0490 U	0.0290 U	0.0310 U	0.0430 U	*0.342*
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.00910 U	0.0290 U	0.0260 U	0.0150 U	0.0170 U	0.0230 U	0.0787
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.00820 U	0.0260 U	0.0230 U	0.0140 U	0.0150 U	0.0200 U	0.00870 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.0120 U	0.0370 U	0.0330 U	0.0190 U	0.0210 U	0.0290 U	0.0120 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.0110 U	0.0340 U	0.0310 U	0.0180 U	0.0200 U	0.0270 U	0.0110 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.0110 U	0.0360 U	0.0330 U	0.0190 U	0.0210 U	0.0280 U	0.0120 U
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.0230 U	0.0740 U	0.0670 U	0.0390 U	0.0430 U	0.0580 U	*0.201*
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.0180 U	0.0570 U	0.0520 U	0.0300 U	0.0330 U	0.0450 U	0.0190 U
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.0190 U	0.0590 U	0.0530 U	0.0310 U	0.0340 U	0.0460 U	0.0200 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.0140 U	0.0450 U	0.0410 U	0.0240 U	0.0260 U	0.0360 U	0.0150 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.0180 U	0.0580 U	0.0520 U	0.0300 U	0.0330 U	0.0450 U	*0.429*
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.0260 UJ	0.0810 UJ	0.0730 UJ	0.0430 UJ	0.0470 UJ	0.0640 UJ	0.0270 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.0170 UJ	0.0540 UJ	0.0490 UJ	0.0280 UJ	0.0310 UJ	0.0420 UJ	0.0180 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.0210 UJ	0.0650 UJ	0.0590 UJ	0.0340 UJ	0.0370 UJ	0.0510 UJ	0.0220 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.0170 UJ	0.0550 UJ	0.0500 UJ	0.0290 UJ	0.0320 UJ	0.0430 UJ	0.0180 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.0120 U	0.0380 U	0.0340 U	0.0200 U	0.0220 U	0.0300 U	*0.443*
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.0240 UJ	0.0750 UJ	0.0680 UJ	0.0400 UJ	0.0430 UJ	0.0590 UJ	*0.329 J*
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.0380 UJ	0.120 UJ	0.110 UJ	0.0640 UJ	0.0690 UJ	0.0950 UJ	0.0410 UJ
SED-DC-1	'0-0.5	9/20/2001	0.0400 UJ	0.0400 UJ	0.0400 UJ	0.0400 UJ	0.0400 UJ	*13.4 J*	0.0400 UJ
SED-DC-2	'0-0.5	9/20/2001	0.0430 U	0.0430 U	0.0430 U	0.0430 U	0.0430 U	*18.5 J*	0.0430 U
SED-DC-3	'0-0.5	9/20/2001	0.0740 UJ	0.0740 UJ	0.0740 UJ	0.0740 UJ	0.0740 UJ	*11.1 J*	0.0740 UJ
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.0310 UJ	0.100 UJ	0.0900 UJ	0.0530 UJ	0.0570 UJ	0.0780 UJ	0.0330 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.0130 UJ	0.0420 UJ	0.0380 UJ	0.0220 UJ	0.0240 UJ	0.0330 UJ	0.0140 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016 mg/kg	Aroclor 1221 mg/kg	Aroclor 1232 mg/kg	Aroclor 1242 mg/kg	Aroclor 1248 mg/kg	Aroclor 1254 mg/kg	Aroclor 1260 mg/kg
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.0160 UJ	0.0510 UJ	0.0460 UJ	0.0270 UJ	0.0290 UJ	0.0400 UJ	0.162 J
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.0150 UJ	0.0470 UJ	0.0430 UJ	0.0250 UJ	0.0270 UJ	0.0370 UJ	0.0160 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.0140 UJ	0.0460 UJ	0.0410 UJ	0.0240 UJ	0.0260 UJ	0.0360 UJ	0.0150 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.0330 UJ	0.100 UJ	0.0930 UJ	0.0540 UJ	0.0590 UJ	0.0810 UJ	0.0350 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.0110 U	0.0360 U	0.0320 U	0.0190 U	0.0210 U	0.0280 U	0.0120 U
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.0110 U	0.0350 U	0.0310 U	0.0180 U	0.0200 U	0.0270 U	0.0120 U
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.00890 U	0.0280 U	0.0250 U	0.0150 U	0.0160 U	0.0220 U	0.00940 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.0540 U	0.0540 U	0.0540 U	0.0540 U	0.0540 U	0.0540 U	0.0540 U
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.0160 UJ	0.0500 UJ	0.0450 UJ	0.0270 UJ	0.0290 UJ	0.0400 UJ	0.0170 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.0150 UJ	0.0470 UJ	0.0430 UJ	0.0250 UJ	0.0270 UJ	0.0370 UJ	0.0160 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.0130 UJ	0.0420 UJ	0.0380 UJ	0.0220 UJ	0.0240 UJ	0.0330 UJ	0.0140 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2-Dibromoethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg
Sediment ERL											
Sediment ERM											
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.00660 U	0.00660 U	0.00660 U	0.00660 U	0.00660 U				0.00660 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00640 U	0.00640 U	0.00640 U	0.00640 U	0.00640 U				0.00640 U
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U				0.00720 U
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0110 U	0.0110 U	0.0110 U	0.0110 U	0.0110 U				0.0110 U
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00710 U	0.00710 U	0.00710 U	0.00710 U	0.00710 U				0.00710 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00980 U	0.00980 U	0.00980 U	0.00980 U	0.00980 U				0.00980 U
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U				0.0100 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ				0.0100 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0260 UJ	0.0260 UJ	0.0260 UJ	0.0260 UJ	0.0260 UJ			0.0420 JN	0.0260 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ				0.0150 UJ
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U			0.0150 JN	0.0100 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0310 UJ	0.0310 UJ	0.0310 UJ	0.0310 UJ	0.0310 UJ				0.0310 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0230 UJ	0.0230 UJ	0.0230 UJ	0.0230 UJ	0.0230 UJ			0.0840 JN	0.0230 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0210 UJ	0.0210 UJ	0.0210 UJ	0.0210 UJ	0.0210 UJ				0.0210 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.0750 UJ	0.0750 UJ	0.0750 UJ	0.0750 UJ	0.0750 UJ				0.0750 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.0380 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ				0.0380 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.0380 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ				0.0380 UJ
SED-7	'0-0.5	10/10/2006	0.200 U	0.190 U	0.180 U	0.160 U	0.230 U	0.120 U	0.190 U	0.150 U	0.180 U
SED-8	'0-0.5	10/10/2006	0.110 U	0.110 U	0.100 U	0.0910 U	0.130 U	0.191 J	0.110 U	0.105 J	0.100 U
SED-9	'0-0.5	10/10/2006	0.0800 U	0.0770 U	0.0720 U	0.0640 U	0.0920 U	0.0470 U	0.0760 U	0.0610 U	0.0730 U
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.00290 U	0.00280 U	0.00270 U	0.00240 U	0.00340 U	0.555	0.00280 U	0.183	0.00270 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.00140 U	0.00140 U	0.00130 U	0.00120 U	0.00170 U	0.00660 J	0.00140 U	0.0176	0.00130 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.00800 U	0.00780 U	0.00730 U	0.00650 U	0.00930 U	11.8	0.00770 U	7.12	0.00740 U
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.00140 U	0.00130 U	0.00130 U	0.00110 U	0.00160 U	0.000820 U	0.00130 U	0.00110 U	0.00130 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.00280 U	0.00270 U	0.00250 U	0.00230 U	0.00320 U	0.00170 U	0.00270 U	0.00220 U	0.00260 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.00170 U	0.00170 U	0.00160 U	0.00140 U	0.00200 U	0.00100 U	0.00170 U	0.00130 U	0.00160 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.000840 U	0.000820 U	0.000760 U	0.000680 U	0.000980 U	0.0169	0.000810 U	0.00440 J	0.000770 U
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.000790 U	0.000760 U	0.000710 U	0.000640 U	0.000910 U	0.00180 J	0.000750 U	0.000740 J	0.000720 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.00110 U	0.00110 U	0.00100 U	0.000900 U	0.00130 U	0.00700 J	0.00110 U	0.00670 J	0.00100 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.00110 U	0.00110 U	0.00100 U	0.000900 U	0.00130 U	0.000660 U	0.00110 U	0.00200 J	0.00100 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.00100 U	0.00100 U	0.000940 U	0.000840 U	0.00120 U	0.000610 U	0.000990 U	0.000800 U	0.000950 U
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.00210 U	0.00200 U	0.00190 U	0.00170 U	0.00240 U	0.00120 U	0.00200 U	0.00160 U	0.00190 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2-Dibromoethane mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.00210 U	0.00210 U	0.00190 U	0.00170 U	0.00250 U	0.0104 J	0.00200 U	0.285	0.00200 U
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.00190 U	0.00180 U	0.00170 U	0.00150 U	0.00220 U	0.0185	0.00180 U	0.0173	0.00170 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.00140 U	0.00130 U	0.00120 U	0.00110 U	0.00160 U	0.000810 U	0.00130 U	0.224	0.00130 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.00190 U	0.00180 U	0.00170 U	0.00150 U	0.00220 U	0.00110 U	0.00180 U	0.00140 U	0.00170 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.00240 UJ	0.00230 UJ	0.00220 UJ	0.00190 UJ	0.00280 UJ	0.00140 UJ	0.00230 UJ	0.00180 UJ	0.00220 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.00160 UJ	0.00150 UJ	0.00140 UJ	0.00130 UJ	0.00180 UJ	0.000930 UJ	0.00150 UJ	0.00360 J	0.00140 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.00200 UJ	0.00200 UJ	0.00180 UJ	0.00160 UJ	0.00240 UJ	0.00120 UJ	0.00190 UJ	0.00380 J	0.00190 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.00160 UJ	0.00150 UJ	0.00140 UJ	0.00130 UJ	0.00180 UJ	0.000920 UJ	0.00150 UJ	0.00520 J	0.00140 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.00120 U	0.00110 U	0.00110 U	0.000950 U	0.00140 U	0.000690 U	0.00110 U	0.0103	0.00110 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.00260 UJ	0.00250 UJ	0.00240 UJ	0.00210 UJ	0.00300 UJ	0.00150 UJ	0.00250 UJ	0.0120 J	0.00240 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.00290 UJ	0.00290 UJ	0.00270 UJ	0.00240 UJ	0.00340 UJ	0.00170 UJ	0.00280 UJ	0.00230 UJ	0.00270 UJ
SED-DC-1	'0-0.5	9/20/2001	0.00540 UJ	0.00540 UJ	0.00540 UJ	0.00540 UJ	0.00540 UJ				0.00540 UJ
SED-DC-2	'0-0.5	9/20/2001	0.00340 U	0.00340 U	0.00340 U	0.00340 U	0.00340 U				0.00340 U
SED-DC-3	'0-0.5	9/20/2001	0.0120 UJ	0.0120 UJ	0.0120 UJ	0.0120 UJ	0.0120 UJ				0.0120 UJ
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.00320 UJ	0.00310 UJ	0.00290 UJ	0.00260 UJ	0.00380 UJ	0.00190 UJ	0.00310 UJ	0.00250 UJ	0.00300 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.00120 UJ	0.00110 UJ	0.00110 UJ	0.000940 UJ	0.00140 UJ	0.000690 UJ	0.00110 UJ	0.00490 J	0.00110 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.00150 UJ	0.00150 UJ	0.00140 UJ	0.00120 UJ	0.00180 UJ	0.000900 UJ	0.00140 UJ	0.00280 J	0.00140 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.00140 UJ	0.00140 UJ	0.00130 UJ	0.00120 UJ	0.00170 UJ	0.000850 UJ	0.00140 UJ	0.00610 J	0.00130 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.00140 UJ	0.00130 UJ	0.00130 UJ	0.00110 UJ	0.00160 UJ	0.000820 UJ	0.00130 UJ	0.00110 UJ	0.00130 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.00300 UJ	0.00290 UJ	0.00270 UJ	0.00240 UJ	0.00340 UJ	0.00180 UJ	0.00280 UJ	0.00230 UJ	0.00270 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.00100 U	0.000990 U	0.000920 U	0.000830 U	0.00120 U	0.000600 U	0.000970 U	0.000780 U	0.000940 U
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.00100 U	0.000990 U	0.000930 U	0.000830 U	0.00120 U	0.0106	0.000980 U	0.0324	0.000940 U
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.000880 U	0.000850 U	0.000790 U	0.000710 U	0.00100 U	0.000520 U	0.000840 U	0.000670 U	0.000800 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.000990 U	0.000960 U	0.000890 U	0.000800 U	0.00110 U	0.000580 U	0.000940 U	0.000760 U	0.000900 U
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.00140 UJ	0.00130 UJ	0.00130 UJ	0.00110 UJ	0.00160 UJ	0.000820 UJ	0.00130 UJ	0.00110 UJ	0.00130 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.00140 UJ	0.00140 UJ	0.00130 UJ	0.00120 UJ	0.00170 UJ	0.000840 UJ	0.00140 UJ	0.00110 UJ	0.00130 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.00120 UJ	0.00120 UJ	0.00110 UJ	0.00100 UJ	0.00140 UJ	0.000740 UJ	0.00120 UJ	0.000960 UJ	0.00110 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dichloropropane mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	108-70-3 mg/kg	2-Butanone (MEK) mg/kg	2-Hexanone mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg
Sediment ERL											
Sediment ERM											
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.00660 U				0.0165	0.00660 U	0.00660 U		0.0605
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00640 U				0.0290	0.00640 U	0.00640 U		0.282
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00720 U			0.0640 JN	0.00720 U	0.00720 U	0.00720 U		0.116
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0110 U				0.0110 U	0.0110 U	0.0110 U		0.157
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00710 U				0.00710 U	0.00710 U	0.00710 U		0.132
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00980 U	0.0180 JN			0.0536	0.00980 U	0.00980 U		0.181
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0100 U				0.0499	0.0100 U	0.0100 U		0.219
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0100 UJ				0.0100 UJ	0.0100 UJ	0.0100 UJ		0.0391 J
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0260 UJ				0.0260 UJ	0.0260 UJ	0.0260 UJ		0.174 J
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0150 UJ				0.0150 UJ	0.0150 UJ	0.0150 UJ		0.210 J
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0100 U				0.0373	0.0100 U	0.0100 U		0.133
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0310 UJ				0.135 J	0.0310 UJ	0.0310 UJ		0.636 J
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0230 UJ				0.0230 UJ	0.0230 UJ	0.0230 UJ		0.112 J
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0210 UJ				0.0210 UJ	0.0210 UJ	0.0210 UJ		0.109 J
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.0750 UJ				0.0750 UJ	0.0750 UJ	0.0750 UJ		1.52 J
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.0380 UJ				0.0380 UJ	0.0380 UJ	0.0380 UJ		0.102 J
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.0380 UJ				0.0380 UJ	0.0380 UJ	0.0380 UJ		0.0380 UJ
SED-7	'0-0.5	10/10/2006	0.190 U	0.160 U	0.160 U		0.920 U	0.460 U	0.670 U	0.656 J	0.960 U
SED-8	'0-0.5	10/10/2006	0.110 U	0.0930 U	0.277 J		0.520 U	0.260 U	0.380 U	1.46	0.540 U
SED-9	'0-0.5	10/10/2006	0.0740 U	0.0660 U	0.0620 U		0.370 U	0.180 U	0.270 U	0.190 U	0.380 U
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.00270 U	0.309	0.377		0.0140 U	0.00670 U	0.00990 U	0.00700 U	0.0140 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.00130 U	0.00340 J	0.0182		0.00660 U	0.00330 U	0.00480 U	0.00340 U	0.0173 J
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.00750 U	0.808	15.1		0.0370 U	0.0180 U	0.0270 U	0.0190 U	0.196
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.00130 U	0.00110 U	0.00110 U		0.00640 U	0.00320 U	0.00460 U	0.00330 U	0.00670 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.00260 U	0.00230 U	0.00570 J		0.0130 U	0.00640 U	0.00940 U	0.00670 U	0.0140 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.00160 U	0.00140 U	0.00130 U		0.00800 U	0.00400 U	0.00580 U	0.00410 U	0.00840 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.000790 U	0.00900	0.0360		0.00390 U	0.00190 U	0.00280 U	0.00200 U	0.0331
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.000740 U	0.000870 J	0.00540 J		0.00360 U	0.00180 U	0.00260 U	0.00190 U	0.00380 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.00100 U	0.00620 J	0.0239		0.00510 U	0.00260 U	0.00380 U	0.00270 U	0.0491
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.00100 U	0.000920 U	0.000870 U		0.00510 U	0.00260 U	0.00370 U	0.00270 U	0.0276
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.000970 U	0.000850 U	0.000810 U		0.00480 U	0.00240 U	0.00350 U	0.00250 U	0.0400
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.00200 U	0.00170 U	0.00160 U		0.00960 U	0.00480 U	0.00700 U	0.00500 U	0.0100 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dichloropropane mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	108-70-3 mg/kg	2-Butanone (MEK) mg/kg	2-Hexanone mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.00200 U	0.0285	0.0740		0.00990 U	0.00490 U	0.00720 U	0.00510 U	0.0542
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.00170 U	0.0157 J	0.0318		0.00860 U	0.00430 U	0.00630 U	0.00440 U	0.121
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.00130 U	0.00530 J	0.0176		0.00630 U	0.00310 U	0.00460 U	0.00330 U	0.0282
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.00170 U	0.00150 U	0.00340 J		0.00860 U	0.00430 U	0.00630 U	0.00440 U	0.00900 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.00220 UJ	0.00200 UJ	0.00190 UJ		0.0110 UJ	0.00550 UJ	0.00800 UJ	0.00570 UJ	0.0996 J
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.00150 UJ	0.00270 J	0.00420 J		0.00730 UJ	0.00360 UJ	0.00530 UJ	0.00380 UJ	0.100 J
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.00190 UJ	0.00170 UJ	0.00410 J		0.0254 J	0.00470 UJ	0.00680 UJ	0.00480 UJ	0.179 J
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.00150 UJ	0.00560 J	0.00540 J		0.00720 UJ	0.00360 UJ	0.00520 UJ	0.00370 UJ	0.160 J
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.00110 U	0.0107	0.00850 J		0.00540 U	0.00270 U	0.00390 U	0.00280 U	0.0416 J
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.00240 UJ	0.0148 J	0.0213 J		0.0120 UJ	0.00600 UJ	0.00870 UJ	0.00620 UJ	0.291 J
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.00280 UJ	0.00240 UJ	0.00650 J		0.0140 UJ	0.00680 UJ	0.00990 UJ	0.00700 UJ	0.166 J
SED-DC-1	'0-0.5	9/20/2001	0.00540 UJ				0.00540 UJ	0.00540 UJ	0.00540 UJ		0.00540 UJ
SED-DC-2	'0-0.5	9/20/2001	0.00340 U				0.0388	0.00340 U	0.00340 U		0.00340 U
SED-DC-3	'0-0.5	9/20/2001	0.0120 UJ	0.140 JN			0.389 J	0.0244 J	0.101 J		1.02 E
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.00300 UJ	0.00270 UJ	0.00250 UJ		0.0150 UJ	0.00740 UJ	0.0110 UJ	0.00770 UJ	0.0160 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.00110 UJ	0.00260 J	0.00280 J		0.00540 UJ	0.00270 UJ	0.00390 UJ	0.00280 UJ	0.0627 J
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.00140 UJ	0.00180 J	0.00310 J		0.00700 UJ	0.00350 UJ	0.00510 UJ	0.00360 UJ	0.0953 J
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.00130 UJ	0.00240 J	0.00260 J		0.00660 UJ	0.00330 UJ	0.00480 UJ	0.00340 UJ	0.0441 J
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.00130 UJ	0.00110 UJ	0.00110 UJ		0.00640 UJ	0.00320 UJ	0.00470 UJ	0.00330 UJ	0.00670 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.00280 UJ	0.00240 UJ	0.00230 UJ		0.0140 UJ	0.00680 UJ	0.0100 UJ	0.00710 UJ	0.102 J
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.000950 U	0.000840 U	0.000790 U		0.00470 U	0.00230 U	0.00340 U	0.00240 U	0.00490 U
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.000960 U	0.00530 J	0.0112		0.00470 U	0.00240 U	0.00340 U	0.00240 U	0.0406
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.000820 U	0.000720 U	0.000900 J		0.00400 U	0.00200 U	0.00290 U	0.00210 U	0.00420 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.000920 U	0.000810 U	0.000990 J		0.00450 U	0.00230 U	0.00330 U	0.00230 U	0.00480 U
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.00130 UJ	0.00110 UJ	0.00110 UJ		0.00640 UJ	0.00320 UJ	0.00470 UJ	0.00330 UJ	0.00670 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.00130 UJ	0.00120 UJ	0.00110 UJ		0.00660 UJ	0.00330 UJ	0.00480 UJ	0.00340 UJ	0.00690 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.00120 UJ	0.00100 UJ	0.000970 UJ		0.00570 UJ	0.00290 UJ	0.00420 UJ	0.00300 UJ	0.0347 J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene, 1-Chloro-4-(trifluorometh mg/kg	Benzene mg/kg	Bromodichloro-methane mg/kg	Bromoform mg/kg	Bromomethane mg/kg	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg
Sediment ERL											
Sediment ERM											
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001		0.00270 U	0.00660 U	0.00660 U	0.00660 U		0.0153	0.00660 U	0.00660 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001		0.00180 J	0.00640 U	0.00640 U	0.00640 U		0.0474	0.00640 U	0.0124
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001		0.00290 U	0.00720 U	0.00720 U	0.00720 U		0.0102	0.00720 U	0.0109
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001		0.00450 U	0.0110 U	0.0110 U	0.0110 U		0.0291	0.0110 U	0.0110 U
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001		0.00170 J	0.00710 U	0.00710 U	0.00710 U		0.00520 J	0.00710 U	0.00710 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001		0.00390 U	0.00980 U	0.00980 U	0.00980 U		0.0291	0.00980 U	0.0209
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001		0.00410 U	0.0100 U	0.0100 U	0.0100 U	2.10 JNB	0.0611	0.0100 U	0.0100 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001		0.00410 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.580 JNB	0.0377 J	0.0100 UJ	0.0100 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001		0.0100 UJ	0.0260 UJ	0.0260 UJ	0.0260 UJ	2.20 JNB	0.0928 J	0.0260 UJ	0.0397 J
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001		0.00440 J	0.0150 UJ	0.0150 UJ	0.0150 UJ	22.0 JNB	0.0433 J	0.0150 UJ	0.0142 J
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001		0.00420 U	0.0100 U	0.0100 U	0.0100 U		0.0119	0.0100 U	0.0118
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001		0.0120 UJ	0.0310 UJ	0.0310 UJ	0.0310 UJ	3.60 JNB	0.208 J	0.0310 UJ	0.0310 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001		0.00930 UJ	0.0230 UJ	0.0230 UJ	0.0230 UJ	15.0 JNB	0.0766 J	0.0230 UJ	0.0565 J
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001		0.00860 UJ	0.0210 UJ	0.0210 UJ	0.0210 UJ	19.0 JNB	0.0638 J	0.0210 UJ	0.0210 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001		0.0150 UJ	0.0750 UJ	0.0750 UJ	0.0750 UJ	5.20 JNB	0.236 J	0.0750 UJ	0.0750 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001		0.00770 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ	4.00 JNB	0.0237 J	0.0380 UJ	0.0380 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001		0.00770 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ	4.20 JNB	0.0496 J	0.0380 UJ	0.00790 J
SED-7	'0-0.5	10/10/2006		0.160 U	0.150 U	0.150 U	0.120 U		0.190 U	0.320 U	0.150 U
SED-8	'0-0.5	10/10/2006		0.0910 U	0.0870 U	0.0830 U	0.0700 U		0.100 U	0.180 U	0.0820 U
SED-9	'0-0.5	10/10/2006		0.0640 U	0.0610 U	0.0580 U	0.0500 U		0.0740 U	0.130 U	0.0580 U
SED-A-1-0-0.5	'0-0.5	10/9/2006		0.00240 U	0.00230 U	0.00210 U	0.00180 U		0.00540 J	0.00470 U	0.0577
SED-A-2-0.5-1.0	'0.5-1	10/9/2006		0.00120 U	0.00110 U	0.00100 U	0.000890 U		0.0224	0.00230 U	0.0108 J
SED-A-2-0-0.5	'0-0.5	10/9/2006		0.00800 J	0.00620 U	0.00590 U	0.00500 U		0.00820 J	0.0130 U	0.642
SED-A-2-1.0-1.5	'1-1.5	10/9/2006		0.00110 U	0.00110 U	0.00100 U	0.000860 U		0.0191	0.00220 U	0.00100 U
SED-A-3-0-0.5	'0-0.5	10/9/2006		0.00230 U	0.00220 U	0.00210 U	0.00170 U		0.00260 U	0.00450 U	0.00200 U
SED-B-1-0-0.5	'0-0.5	10/6/2006		0.00140 U	0.00130 U	0.00130 U	0.00110 U		0.00160 U	0.00280 U	0.00130 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006		0.000680 U	0.000650 U	0.000620 U	0.000530 U		0.0249	0.00140 U	0.00400 J
SED-B-2-0-0.5	'0-0.5	10/6/2006		0.000640 U	0.000610 U	0.000580 U	0.000490 U		0.000730 U	0.00130 U	0.000580 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006		0.000900 U	0.000860 U	0.000820 U	0.000700 U		0.0363	0.00180 U	0.00360 J
SED-B-2-1.5-2.0	'1.5-2	10/6/2006		0.00100 J	0.000860 U	0.000820 U	0.000690 U		0.0166	0.00180 U	0.000810 U
SED-B-3-0-0.5	'0-0.5	10/6/2006		0.000840 U	0.000800 U	0.000760 U	0.000650 U		0.00130 J	0.00170 U	0.000760 U
SED-C-1-0-0.5	'0-0.5	10/6/2006		0.00170 U	0.00160 U	0.00150 U	0.00130 U		0.00200 U	0.00340 U	0.00150 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzene, 1-Chloro-4-(trifluorometh mg/kg	Benzene mg/kg	Bromodichloro-methane mg/kg	Bromoform mg/kg	Bromomethane mg/kg	Carbon Dioxide mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg
SED-C-2-0.5-1.0	'0.5-1	10/6/2006		0.0105	0.00160 U	0.00160 U	0.00130 U		0.0369	0.00340 U	2.30
SED-C-2-0-0.5	'0-0.5	10/6/2006		0.00150 U	0.00140 U	0.00140 U	0.00120 U		0.00970 J	0.00300 U	0.330
SED-C-2-1.0-1.5	'1-1.5	10/6/2006		0.00900	0.00110 U	0.00100 U	0.000850 U		0.0225	0.00220 U	1.10
SED-C-3-0-0.5	'0-0.5	10/6/2006		0.00150 U	0.00140 U	0.00140 U	0.00120 U		0.00170 U	0.00300 U	0.00140 U
SED-D-1-0-0.5	'0-0.5	10/5/2006		0.00190 UJ	0.00180 UJ	0.00180 UJ	0.00150 UJ		0.0101 J	0.00380 UJ	0.00170 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006		0.00130 UJ	0.00120 UJ	0.00120 UJ	0.000980 UJ		0.0209 J	0.00250 UJ	0.00150 J
SED-D-2-0-0.5	'0-0.5	10/5/2006		0.00160 UJ	0.00160 UJ	0.00150 UJ	0.00130 UJ		0.0236 J	0.00330 UJ	0.00150 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006		0.00130 UJ	0.00120 UJ	0.00110 UJ	0.000970 UJ		0.0417 J	0.00250 UJ	0.00400 J
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.0210 JN	0.000950 U	0.000900 U	0.000860 U	0.000730 U		0.0154	0.00190 U	0.00590 J
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.0350 JN	0.00210 UJ	0.00200 UJ	0.00190 UJ	0.00160 UJ		0.0178 J	0.00420 UJ	0.0881 J
SED-D-3-0-0.5	'0-0.5	10/5/2006		0.00240 UJ	0.00230 UJ	0.00220 UJ	0.00180 UJ		0.00950 J	0.00470 UJ	0.00220 UJ
SED-DC-1	'0-0.5	9/20/2001		0.00110 UJ	0.00540 UJ	0.00540 UJ	0.00540 UJ	1.90 JNB	0.00660 J	0.00540 UJ	0.00540 UJ
SED-DC-2	'0-0.5	9/20/2001		0.000670 U	0.00340 U	0.00340 U	0.00340 U	1.30 JNB	0.00540	0.00340 U	0.00340 U
SED-DC-3	'0-0.5	9/20/2001		0.00550 J	0.0120 UJ	0.0120 UJ	0.0120 UJ	5.40 JNB	0.160 J	0.0120 UJ	0.0264 J
SED-E-1-0-0.5	'0-0.5	10/3/2006		0.00260 UJ	0.00250 UJ	0.00240 UJ	0.00200 UJ		0.00880 J	0.00520 UJ	0.00240 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006		0.000940 UJ	0.000900 UJ	0.000850 UJ	0.000730 UJ		0.00740 J	0.00190 UJ	0.00250 J
SED-E-2-0-0.5	'0-0.5	10/5/2006		0.00120 UJ	0.00120 UJ	0.00110 UJ	0.000940 UJ		0.00420 J	0.00240 UJ	0.00110 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006		0.00120 UJ	0.00110 UJ	0.00110 UJ	0.000900 UJ		0.0188 J	0.00230 UJ	0.00950 J
SED-E-2-1.5-2.0	'1.5-2	10/5/2006		0.00110 UJ	0.00110 UJ	0.00100 UJ	0.000870 UJ		0.0204 J	0.00220 UJ	0.00100 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006		0.00240 UJ	0.00230 UJ	0.00220 UJ	0.00180 UJ		0.00550 J	0.00480 UJ	0.00220 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006		0.000830 U	0.000790 U	0.000750 U	0.000640 U		0.000950 U	0.00160 U	0.000750 U
SED-F-2-0-0.5	'0-0.5	10/4/2006		0.00100 J	0.000790 U	0.000750 U	0.000640 U		0.00420 J	0.00160 U	0.0296
SED-F-3-0-0.5	'0-0.5	10/4/2006		0.000710 U	0.000670 U	0.000640 U	0.000550 U		0.000820 U	0.00140 U	0.000640 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006		0.000800 U	0.000760 U	0.000720 U	0.000610 U		0.000920 U	0.00160 U	0.000720 U
SED-G-1-0-0.5	'0-0.5	10/2/2006		0.00110 UJ	0.00110 UJ	0.00100 UJ	0.000870 UJ		0.00310 J	0.00220 UJ	0.00100 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006		0.00120 UJ	0.00110 UJ	0.00100 UJ	0.000890 UJ		0.00180 J	0.00230 UJ	0.00100 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006		0.00100 UJ	0.000960 UJ	0.000910 UJ	0.000780 UJ		0.00210 J	0.00200 UJ	0.000910 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chlorodibromo-methane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloromethane mg/kg	Cis-1,2-Dichloroethene mg/kg	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Dichloro-difluoromethane mg/kg
Sediment ERL											
Sediment ERM											
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.00660 U	0.00660 U	0.00660 U	0.00660 U	0.00660 U	0.00660 U			
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00640 U	0.00640 U	0.0229	0.00640 U	0.00640 U	0.00640 U			
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U	0.00720 U			
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0110 U	0.0110 U	0.0110 U	0.0110 U	0.0110 U	0.0110 U			
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00710 U	0.00710 U	0.0354	0.00710 U	0.00710 U	0.00710 U			
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00980 U	0.00980 U	0.0238	0.00980 U	0.00980 U	0.00980 U			
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U			
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ	0.0100 UJ			
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0260 UJ	0.0260 UJ	0.0260 UJ	0.0260 UJ	0.0260 UJ	0.0260 UJ			
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ	0.0150 UJ			
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U			
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0310 UJ	0.0310 UJ	0.0310 UJ	0.0310 UJ	0.0310 UJ	0.0310 UJ			
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0230 UJ	0.0230 UJ	0.0230 UJ	0.0230 UJ	0.0230 UJ	0.0230 UJ			
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0210 UJ	0.0210 UJ	0.0210 UJ	0.0210 UJ	0.0210 UJ	0.0210 UJ			
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.0750 UJ	0.0750 UJ	0.0750 UJ	0.0750 UJ	0.0750 UJ	0.0750 UJ			
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.0380 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ			
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.0380 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ	0.0380 UJ			
SED-7	'0-0.5	10/10/2006	0.190 U	0.590 U	0.200 U	0.160 U	0.230 U	0.140 U	0.430 U	0.720 U	0.270 U
SED-8	'0-0.5	10/10/2006	0.100 U	0.330 U	0.110 U	0.0880 U	0.130 U	0.0790 U	0.240 U	0.410 U	0.150 U
SED-9	'0-0.5	10/10/2006	0.0740 U	0.230 U	0.0780 U	0.0620 U	0.0900 U	0.0560 U	0.170 U	0.290 U	0.110 U
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.00270 U	0.00860 U	0.00290 U	0.00230 U	0.00330 U	0.00210 U	0.00630 U	0.0110 U	0.00390 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.00130 U	0.00420 U	0.00140 U	0.00110 U	0.00160 U	0.00100 U	0.00310 U	0.00520 U	0.00190 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.00750 U	0.0240 U	0.00790 U	0.00630 U	0.00910 U	0.00560 U	0.0170 U	0.0290 U	0.0110 U
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.00130 U	0.00410 U	0.00140 U	0.00110 U	0.00160 U	0.000970 U	0.00300 U	0.00500 U	0.00190 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.00260 U	0.00820 U	0.00280 U	0.00220 U	0.00320 U	0.00200 U	0.00610 U	0.0100 U	0.00380 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.00160 U	0.00510 U	0.00170 U	0.00130 U	0.00200 U	0.00120 U	0.00370 U	0.00630 U	0.00230 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.000780 U	0.00250 U	0.00120 J	0.000660 U	0.000960 U	0.000590 U	0.00180 U	0.00310 U	0.00110 U
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.000730 U	0.00230 U	0.000770 U	0.000610 U	0.000890 U	0.000550 U	0.00170 U	0.00290 U	0.00110 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.00100 U	0.00330 U	0.00510 J	0.000870 U	0.00130 U	0.000780 U	0.00240 U	0.00410 U	0.00150 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.00100 U	0.00330 U	0.00480 J	0.000870 U	0.00130 U	0.000780 U	0.00240 U	0.00400 U	0.00150 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.000960 U	0.00300 U	0.00100 U	0.000810 U	0.00120 U	0.000730 U	0.00220 U	0.00380 U	0.00140 U
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.00190 U	0.00610 U	0.00210 U	0.00160 U	0.00240 U	0.00150 U	0.00450 U	0.00760 U	0.00280 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chlorodibromo-methane mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloromethane mg/kg	Cis-1,2-Dichloroethene mg/kg	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Dichloro-difluoromethane mg/kg
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.00200 U	0.00630 U	0.00210 U	0.00170 U	0.00240 U	0.00150 U	0.00660 J	0.00780 U	0.00290 U
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.00170 U	0.00550 U	0.00180 U	0.00150 U	0.00210 U	0.00130 U	0.00400 U	0.00680 U	0.00250 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.00130 U	0.00400 U	0.00130 U	0.00110 U	0.00160 U	0.000960 U	0.00300 U	0.00500 U	0.00180 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.00170 U	0.00550 U	0.00180 U	0.00140 U	0.00210 U	0.00130 U	0.00400 U	0.00680 U	0.00250 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.00220 UJ	0.00700 UJ	0.00230 UJ	0.00190 UJ	0.00270 UJ	0.00170 UJ	0.00520 UJ	0.00870 UJ	0.00320 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.00150 UJ	0.00460 UJ	0.00160 UJ	0.00120 UJ	0.00180 UJ	0.00110 UJ	0.00340 UJ	0.00570 UJ	0.00210 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.00190 UJ	0.00600 UJ	0.00200 UJ	0.00160 UJ	0.00230 UJ	0.00140 UJ	0.00440 UJ	0.00740 UJ	0.00270 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.00140 UJ	0.00460 UJ	0.00150 UJ	0.00120 UJ	0.00180 UJ	0.00110 UJ	0.00340 UJ	0.00560 UJ	0.00210 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.00110 U	0.00340 U	0.00150 J	0.000910 U	0.00130 U	0.000820 U	0.00250 U	0.00430 U	0.00160 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.00240 UJ	0.00760 UJ	0.00260 UJ	0.00200 UJ	0.00290 UJ	0.00180 UJ	0.00560 UJ	0.00940 UJ	0.00350 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.00270 UJ	0.00860 UJ	0.00290 UJ	0.00230 UJ	0.00330 UJ	0.00210 UJ	0.00640 UJ	0.0110 UJ	0.00390 UJ
SED-DC-1	'0-0.5	9/20/2001	0.00540 UJ	0.00540 UJ	0.00540 UJ	0.00540 UJ	0.00540 UJ	0.00540 UJ			
SED-DC-2	'0-0.5	9/20/2001	0.00340 U	0.00340 U	0.00340 U	0.00340 U	0.00340 U	0.00340 U			
SED-DC-3	'0-0.5	9/20/2001	0.0120 UJ	0.0120 UJ	0.00710 J	0.0120 UJ	0.328 J	0.0120 UJ			
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.00300 UJ	0.00950 UJ	0.00320 UJ	0.00250 UJ	0.00370 UJ	0.00230 UJ	0.00700 UJ	0.0120 UJ	0.00430 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.00110 UJ	0.00340 UJ	0.00110 UJ	0.000910 UJ	0.00130 UJ	0.000820 UJ	0.00250 UJ	0.00420 UJ	0.00160 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.00140 UJ	0.00450 UJ	0.00150 UJ	0.00120 UJ	0.00170 UJ	0.00110 UJ	0.00330 UJ	0.00550 UJ	0.00200 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.00130 UJ	0.00420 UJ	0.00140 UJ	0.00110 UJ	0.00160 UJ	0.00100 UJ	0.00310 UJ	0.00520 UJ	0.00190 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.00130 UJ	0.00410 UJ	0.00140 UJ	0.00110 UJ	0.00160 UJ	0.000970 UJ	0.00300 UJ	0.00510 UJ	0.00190 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.00270 UJ	0.00870 UJ	0.00290 UJ	0.00230 UJ	0.00340 UJ	0.00210 UJ	0.00640 UJ	0.0110 UJ	0.00400 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.000950 U	0.00300 U	0.00100 U	0.000790 U	0.00120 U	0.000710 U	0.00220 U	0.00370 U	0.00140 U
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.000950 U	0.00300 U	0.00100 U	0.000800 U	0.00120 U	0.000720 U	0.0106	0.00370 U	0.00140 U
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.000810 U	0.00260 U	0.000860 U	0.000680 U	0.000990 U	0.000610 U	0.00190 U	0.00320 U	0.00120 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.000910 U	0.00290 U	0.000970 U	0.000770 U	0.00110 U	0.000690 U	0.00210 U	0.00360 U	0.00130 U
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.00130 UJ	0.00410 UJ	0.00140 UJ	0.00110 UJ	0.00160 UJ	0.000970 UJ	0.00300 UJ	0.00510 UJ	0.00190 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.00130 UJ	0.00420 UJ	0.00140 UJ	0.00110 UJ	0.00160 UJ	0.00100 UJ	0.00310 UJ	0.00520 UJ	0.00190 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.00120 UJ	0.00370 UJ	0.00120 UJ	0.000970 UJ	0.00140 UJ	0.000870 UJ	0.00270 UJ	0.00450 UJ	0.00170 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Dimethyl Sulfide mg/kg	Ethylbenzene mg/kg	Heptanal mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Isopropylbenzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methylcyclohexane mg/kg	Methylene Chloride mg/kg
Sediment ERL											
Sediment ERM											
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001		0.00660 U							0.0390 B
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001		0.00640 U							0.0260 B
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001		0.00720 U							0.0189 B
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001		0.0110 U							0.619 B
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001		0.00710 U							0.0210 B
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001		0.0100							0.0224 B
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001		0.0100 U							0.0186 B
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001		0.0100 UJ							0.0200 B
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001		0.0260 UJ			0.0320 JN				0.0454 B
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001		0.0150 UJ			0.0150 JN				0.0275 B
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001		0.0100 U							0.0158 B
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001		0.0310 UJ							0.0310 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001		0.0230 UJ							0.0230 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001		0.0210 UJ							0.0210 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001		0.0150 UJ							0.0487 JB
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001		0.00770 UJ							0.0170 JB
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001		0.00770 UJ							0.0124 JB
SED-7	'0-0.5	10/10/2006		0.150 U				0.160 U	0.300 U	0.220 U	0.230 U
SED-8	'0-0.5	10/10/2006		0.0860 U				0.0880 U	0.170 U	0.120 U	0.130 U
SED-9	'0-0.5	10/10/2006		0.0600 U				0.0620 U	0.120 U	0.0870 U	0.0930 U
SED-A-1-0-0.5	'0-0.5	10/9/2006		0.00220 U				0.00230 U	0.00430 U	0.00320 U	0.00340 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006		0.00110 U				0.00110 U	0.00210 U	0.00160 U	0.00170 U
SED-A-2-0-0.5	'0-0.5	10/9/2006		0.0325				0.00630 U	0.0274	0.00880 U	0.00940 U
SED-A-2-1.0-1.5	'1-1.5	10/9/2006		0.00100 U				0.00110 U	0.00200 U	0.00150 U	0.00160 U
SED-A-3-0-0.5	'0-0.5	10/9/2006		0.00210 U				0.00220 U	0.00410 U	0.00300 U	0.00330 U
SED-B-1-0-0.5	'0-0.5	10/6/2006		0.00130 U				0.00140 U	0.00260 U	0.00190 U	0.00200 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006		0.000640 U				0.000660 U	0.00130 U	0.000920 U	0.00470 J
SED-B-2-0-0.5	'0-0.5	10/6/2006		0.000600 U				0.000620 U	0.00120 U	0.000860 U	0.000920 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006		0.000850 U				0.000880 U	0.00170 U	0.00120 U	0.00500 J
SED-B-2-1.5-2.0	'1.5-2	10/6/2006		0.000850 U				0.000870 U	0.00160 U	0.00120 U	0.00450 J
SED-B-3-0-0.5	'0-0.5	10/6/2006		0.000790 U				0.000810 U	0.00150 U	0.00110 U	0.00120 U
SED-C-1-0-0.5	'0-0.5	10/6/2006		0.00160 U				0.00160 U	0.00310 U	0.00230 U	0.00240 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Dimethyl Sulfide mg/kg	Ethylbenzene mg/kg	Heptanal mg/kg	Hexanal mg/kg	Hexane(C6) mg/kg	Isopropylbenzene mg/kg	M,P-Xylene (sum Of Isomers) mg/kg	Methylcyclohexane mg/kg	Methylene Chloride mg/kg
SED-C-2-0.5-1.0	'0.5-1	10/6/2006		0.00530				0.00170 U	0.00320 U	0.0104 J	0.00980 J
SED-C-2-0-0.5	'0-0.5	10/6/2006		0.00140 U				0.00150 U	0.00280 U	0.00200 U	0.0115 J
SED-C-2-1.0-1.5	'1-1.5	10/6/2006		0.00240				0.00110 U	0.00200 U	0.00170 J	0.00600 J
SED-C-3-0-0.5	'0-0.5	10/6/2006		0.00140 U				0.00150 U	0.00280 U	0.00200 U	0.00220 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.0330 JN	0.00180 UJ				0.00190 UJ	0.00350 UJ	0.00260 UJ	0.00280 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006		0.00120 UJ				0.00120 UJ	0.00230 UJ	0.00170 UJ	0.0112 J
SED-D-2-0-0.5	'0-0.5	10/5/2006		0.00150 UJ				0.00160 UJ	0.00300 UJ	0.00220 UJ	0.0268 J
SED-D-2-1.0-1.5	'1-1.5	10/5/2006		0.00120 UJ				0.00120 UJ	0.00230 UJ	0.00170 UJ	0.0288 J
SED-D-2-1.5-2.0	'1.5-2	10/5/2006		0.000890 U				0.000920 U	0.00170 U	0.00130 U	0.00830 J
SED-D-2-2.0-2.5	'2-2.5	10/5/2006		0.00200 UJ				0.00200 UJ	0.00380 UJ	0.00280 UJ	0.0408 J
SED-D-3-0-0.5	'0-0.5	10/5/2006		0.00220 UJ				0.00230 UJ	0.00440 UJ	0.00320 UJ	0.00340 UJ
SED-DC-1	'0-0.5	9/20/2001		0.00110 UJ		0.00770 JN					0.00690 B
SED-DC-2	'0-0.5	9/20/2001		0.000670 U	0.00430 JN	0.0590 JN					0.00340 U
SED-DC-3	'0-0.5	9/20/2001		0.00310 J							0.0109 JB
SED-E-1-0-0.5	'0-0.5	10/3/2006		0.00250 UJ				0.00250 UJ	0.00480 UJ	0.00350 UJ	0.00380 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006		0.000890 UJ				0.000920 UJ	0.00170 UJ	0.00130 UJ	0.0236 J
SED-E-2-0-0.5	'0-0.5	10/5/2006		0.00120 UJ				0.00120 UJ	0.00220 UJ	0.00160 UJ	0.00630 J
SED-E-2-1.0-1.5	'1-1.5	10/5/2006		0.00110 UJ				0.00110 UJ	0.00210 UJ	0.00160 UJ	0.0197 J
SED-E-2-1.5-2.0	'1.5-2	10/5/2006		0.00110 UJ				0.00110 UJ	0.00210 UJ	0.00150 UJ	0.00160 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006		0.00230 UJ				0.00230 UJ	0.00440 UJ	0.00320 UJ	0.00350 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006		0.000780 U				0.000800 U	0.00150 U	0.00110 U	0.00120 U
SED-F-2-0-0.5	'0-0.5	10/4/2006		0.00140 J				0.000800 U	0.00150 U	0.0651	0.00120 U
SED-F-3-0-0.5	'0-0.5	10/4/2006		0.000670 U				0.000690 U	0.00130 U	0.000950 U	0.00100 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006		0.000750 U				0.000770 U	0.00150 U	0.00110 U	0.00120 U
SED-G-1-0-0.5	'0-0.5	10/2/2006		0.00110 UJ				0.00110 UJ	0.00210 UJ	0.00150 UJ	0.00160 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006		0.00110 UJ				0.00110 UJ	0.00210 UJ	0.00160 UJ	0.00170 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006		0.000950 UJ				0.000980 UJ	0.00180 UJ	0.00140 UJ	0.00150 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Butanal mg/kg	Octanal mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 2,3-Dimethyl- mg/kg	Styrene mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetrachloro-ethylene(PERC) mg/kg	Toluene mg/kg	Trans-1,2-Dichloroethene mg/kg
Sediment ERL												
Sediment ERM												
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001						0.00660 U		0.00660 U	0.00660 U	0.00660 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001						0.00640 U		0.00640 U	0.00640 U	0.00640 U
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001						0.00720 U		0.00720 U	0.00720 U	0.00720 U
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001						0.0110 U		0.0110 U	0.0110 U	0.0110 U
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001						0.00710 U		0.00710 U	0.00180 J	0.00710 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001						0.00980 U		0.00980 U	0.00980 U	0.00980 U
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001						0.0100 U		0.0100 U	0.0100 U	0.0100 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001						0.0100 UJ		0.0100 UJ	0.0100 UJ	0.0100 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001						0.0260 UJ		0.0260 UJ	0.0260 UJ	0.0260 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001						0.0150 UJ		0.0150 UJ	0.00480 J	0.0150 UJ
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001						0.0100 U		0.0100 U	0.0100 U	0.0100 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001						0.0310 UJ		0.0310 UJ	0.0310 UJ	0.0310 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001						0.0230 UJ		0.0230 UJ	0.0230 UJ	0.0230 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001						0.0210 UJ		0.0210 UJ	0.0210 UJ	0.0210 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001						0.0750 UJ		0.0750 UJ	0.0150 UJ	0.0750 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001						0.0380 UJ		0.0380 UJ	0.00770 UJ	0.0380 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001						0.0380 UJ		0.0380 UJ	0.00770 UJ	0.0380 UJ
SED-7	'0-0.5	10/10/2006			0.170 U			0.110 U	0.190 U	0.280 U	0.180 U	0.230 U
SED-8	'0-0.5	10/10/2006			0.0940 U			0.0620 U	0.110 U	0.160 U	0.100 U	0.130 U
SED-9	'0-0.5	10/10/2006			0.0660 U			0.0440 U	0.0750 U	0.110 U	0.230	0.0920 U
SED-A-1-0-0.5	'0-0.5	10/9/2006			0.00240 U			0.00160 U	0.00280 U	0.00410 U	0.00270 U	0.00340 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006			0.00120 U			0.000790 U	0.00130 U	0.00200 U	0.00130 U	0.00160 U
SED-A-2-0-0.5	'0-0.5	10/9/2006			0.00830 J		0.190 JN	0.00440 U	0.00760 U	0.0110 U	0.00740 U	0.00930 U
SED-A-2-1.0-1.5	'1-1.5	10/9/2006			0.00120 U			0.000760 U	0.00130 U	0.00190 U	0.00130 U	0.00160 U
SED-A-3-0-0.5	'0-0.5	10/9/2006			0.00230 U			0.00150 U	0.00260 U	0.00390 U	0.00260 U	0.00320 U
SED-B-1-0-0.5	'0-0.5	10/6/2006			0.00140 U			0.000960 U	0.00160 U	0.00240 U	0.00160 U	0.00200 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006			0.000700 U			0.000470 U	0.000800 U	0.00120 U	0.000770 U	0.000970 U
SED-B-2-0-0.5	'0-0.5	10/6/2006			0.000660 U			0.000440 U	0.000740 U	0.00110 U	0.000720 U	0.000910 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006			0.000930 U			0.000620 U	0.00110 U	0.00160 U	0.00100 U	0.00130 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006			0.000930 U			0.000610 U	0.00110 U	0.00150 U	0.00100 U	0.00130 U
SED-B-3-0-0.5	'0-0.5	10/6/2006			0.000860 U			0.000570 U	0.000980 U	0.00140 U	0.000950 U	0.00120 U
SED-C-1-0-0.5	'0-0.5	10/6/2006			0.00170 U			0.00120 U	0.00200 U	0.00290 U	0.00190 U	0.00240 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Butanal mg/kg	Octanal mg/kg	O-xylene mg/kg	Pentanal mg/kg	Pentane, 2,3-Dimethyl- mg/kg	Styrene mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetrachloro-ethylene(PERC) mg/kg	Toluene mg/kg	Trans-1,2-Dichloroethene mg/kg
SED-C-2-0.5-1.0	'0.5-1	10/6/2006			0.00230 J			0.00120 U	0.00200 U	0.00300 U	0.00200 U	0.00250 U
SED-C-2-0-0.5	'0-0.5	10/6/2006			0.00160 U			0.00100 U	0.00180 U	0.00260 U	0.00170 U	0.00210 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006			0.00110 U			0.000760 U	0.00130 U	0.00190 U	0.00130 U	0.00160 U
SED-C-3-0-0.5	'0-0.5	10/6/2006			0.00150 U			0.00100 U	0.00180 U	0.00260 U	0.00170 U	0.00210 U
SED-D-1-0-0.5	'0-0.5	10/5/2006			0.00200 UJ			0.00130 UJ	0.00230 UJ	0.00330 UJ	0.00220 UJ	0.00280 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006			0.00130 UJ			0.000870 UJ	0.00150 UJ	0.00220 UJ	0.00140 UJ	0.00180 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006			0.00170 UJ			0.00110 UJ	0.00190 UJ	0.00280 UJ	0.00190 UJ	0.00230 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006			0.00130 UJ			0.000860 UJ	0.00150 UJ	0.00220 UJ	0.00140 UJ	0.00180 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006			0.000980 U			0.000650 U	0.00110 U	0.00160 U	0.00110 U	0.00140 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006			0.00220 UJ			0.00140 UJ	0.00250 UJ	0.00360 UJ	0.00240 UJ	0.00300 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006			0.00240 UJ			0.00160 UJ	0.00280 UJ	0.00410 UJ	0.00270 UJ	0.00340 UJ
SED-DC-1	'0-0.5	9/20/2001						0.00540 UJ		0.00540 UJ	0.00110 UJ	0.00540 UJ
SED-DC-2	'0-0.5	9/20/2001	0.00630 JN	0.00380 JN		0.00850 JN		0.00340 U		0.00190 J	0.000670 U	0.00340 U
SED-DC-3	'0-0.5	9/20/2001						0.0120 UJ		0.394 J	0.180 J	0.00560 J
SED-E-1-0-0.5	'0-0.5	10/3/2006			0.00270 UJ			0.00180 UJ	0.00310 UJ	0.00450 UJ	0.00300 UJ	0.00370 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006			0.000970 UJ			0.000640 UJ	0.00110 UJ	0.00160 UJ	0.00110 UJ	0.00130 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006			0.00130 UJ			0.000840 UJ	0.00140 UJ	0.00210 UJ	0.00140 UJ	0.00170 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006			0.00120 UJ			0.000790 UJ	0.00140 UJ	0.00200 UJ	0.00130 UJ	0.00170 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006			0.00120 UJ			0.000770 UJ	0.00130 UJ	0.00190 UJ	0.00130 UJ	0.00160 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006			0.00250 UJ			0.00160 UJ	0.00280 UJ	0.00410 UJ	0.00270 UJ	0.00340 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006			0.000850 U			0.000560 U	0.000960 U	0.00140 U	0.000930 U	0.00120 U
SED-F-2-0-0.5	'0-0.5	10/4/2006			0.000850 U		0.0190 JN	0.000570 U	0.000970 U	0.00140 U	0.000940 U	0.00120 U
SED-F-3-0-0.5	'0-0.5	10/4/2006			0.000730 U			0.000480 U	0.000830 U	0.00120 U	0.000800 U	0.00100 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006			0.000820 U			0.000540 U	0.000930 U	0.00140 U	0.000900 U	0.00110 U
SED-G-1-0-0.5	'0-0.5	10/2/2006			0.00120 UJ			0.000770 UJ	0.00130 UJ	0.00190 UJ	0.00130 UJ	0.00160 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006			0.00120 UJ			0.000790 UJ	0.00130 UJ	0.00200 UJ	0.00130 UJ	0.00160 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006			0.00100 UJ			0.000690 UJ	0.00120 UJ	0.00170 UJ	0.00110 UJ	0.00140 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
Sediment ERL								
Sediment ERM								
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.00660 U	0.00660 U			0.00660 U	0.00660 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00640 U	0.00640 U			0.00640 U	0.00640 U
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00720 U	0.00720 U			0.00720 U	0.00720 U
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0110 U	0.0110 U			0.0110 U	0.0110 U
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.00710 U	0.00710 U			0.00710 U	0.00710 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.00980 U	0.00980 U			0.00980 U	0.00980 U
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0100 U	0.0100 U			0.0100 U	0.0100 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0100 UJ	0.0100 UJ			0.0100 UJ	0.0100 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0260 UJ	0.0260 UJ			0.0260 UJ	0.0260 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0150 UJ	0.0150 UJ			0.0150 UJ	0.0150 UJ
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0100 U	0.0100 U			0.0100 U	0.0100 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0310 UJ	0.0310 UJ			0.0310 UJ	0.0310 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0230 UJ	0.0230 UJ			0.0230 UJ	0.0230 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0210 UJ	0.0210 UJ			0.0210 UJ	0.0210 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.0750 UJ	0.0750 UJ			0.0750 UJ	0.0300 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.0380 UJ	0.0380 UJ			0.0380 UJ	0.0150 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.0380 UJ	0.0380 UJ			0.0380 UJ	0.0150 UJ
SED-7	'0-0.5	10/10/2006	0.130 U	0.180 U	0.250 U	0.290 U	0.220 U	0.170 U
SED-8	'0-0.5	10/10/2006	0.0750 U	0.0990 U	0.140 U	0.160 U	0.120 U	0.0940 U
SED-9	'0-0.5	10/10/2006	0.0530 U	0.0700 U	0.0980 U	0.110 U	0.0870 U	0.0660 U
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.00190 U	0.00260 U	0.00360 U	0.00420 U	0.00320 U	0.00240 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.000940 U	0.00130 U	0.00180 U	0.00210 U	0.00160 U	0.00120 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.00530 U	0.00710 U	0.00990 U	0.0197 J	0.00880 U	0.0357
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.000910 U	0.00120 U	0.00170 U	0.00200 U	0.00150 U	0.00120 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.00190 U	0.00250 U	0.00340 U	0.00400 U	0.00310 U	0.00230 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.00110 U	0.00150 U	0.00210 U	0.00250 U	0.00190 U	0.00140 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.000560 U	0.000740 U	0.00100 U	0.00120 U	0.000920 U	0.000700 U
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.000520 U	0.000690 U	0.000970 U	0.00110 U	0.000860 U	0.000660 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.000740 U	0.000980 U	0.00140 U	0.00160 U	0.00120 U	0.000930 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.000740 U	0.000980 U	0.00140 U	0.00160 U	0.00120 U	0.000930 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.000690 U	0.000910 U	0.00130 U	0.00150 U	0.00110 U	0.000860 U
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.00140 U	0.00180 U	0.00260 U	0.00300 U	0.00230 U	0.00170 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.00140 U	0.00190 U	0.00260 U	0.00310 U	0.00230 U	0.00230 J
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.00120 U	0.00160 U	0.00230 U	0.00270 U	0.00200 U	0.00160 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.000910 U	0.00120 U	0.00170 U	0.00200 U	0.00150 U	0.00110 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.00120 U	0.00160 U	0.00230 U	0.00270 U	0.00200 U	0.00150 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.00160 UJ	0.00210 UJ	0.00290 UJ	0.00350 UJ	0.00260 UJ	0.00200 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.00100 UJ	0.00140 UJ	0.00190 UJ	0.00230 UJ	0.00170 UJ	0.00130 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.00130 UJ	0.00180 UJ	0.00250 UJ	0.00290 UJ	0.00220 UJ	0.00170 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.00100 UJ	0.00140 UJ	0.00190 UJ	0.00220 UJ	0.00170 UJ	0.00130 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.000780 U	0.00100 U	0.00140 U	0.00170 U	0.00130 U	0.000980 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.00170 UJ	0.00230 UJ	0.00320 UJ	0.00380 UJ	0.00280 UJ	0.00220 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.00190 UJ	0.00260 UJ	0.00360 UJ	0.00430 UJ	0.00320 UJ	0.00240 UJ
SED-DC-1	'0-0.5	9/20/2001	0.00540 UJ	0.00540 UJ			0.00540 UJ	0.00220 UJ
SED-DC-2	'0-0.5	9/20/2001	0.00340 U	0.00340 U			0.00340 U	0.00130 U
SED-DC-3	'0-0.5	9/20/2001	0.0120 UJ	0.0830 J			0.0169 J	0.0124 J
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.00210 UJ	0.00280 UJ	0.00400 UJ	0.00470 UJ	0.00350 UJ	0.00270 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.000770 UJ	0.00100 UJ	0.00140 UJ	0.00170 UJ	0.00130 UJ	0.000970 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.00100 UJ	0.00130 UJ	0.00190 UJ	0.00220 UJ	0.00170 UJ	0.00130 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.000950 UJ	0.00130 UJ	0.00180 UJ	0.00210 UJ	0.00160 UJ	0.00120 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.000920 UJ	0.00120 UJ	0.00170 UJ	0.00200 UJ	0.00150 UJ	0.00120 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.00200 UJ	0.00260 UJ	0.00360 UJ	0.00430 UJ	0.00320 UJ	0.00250 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.000680 U	0.000900 U	0.00130 U	0.00150 U	0.00110 U	0.000850 U
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.000680 U	0.000900 U	0.00130 U	0.00150 U	0.00110 U	0.00150 J
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.000580 U	0.000770 U	0.00110 U	0.00130 U	0.000960 U	0.000730 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.000650 U	0.000870 U	0.00120 U	0.00140 U	0.00110 U	0.000820 U
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.000920 UJ	0.00120 UJ	0.00170 UJ	0.00200 UJ	0.00150 UJ	0.00120 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.000950 UJ	0.00130 UJ	0.00180 UJ	0.00210 UJ	0.00160 UJ	0.00120 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.000820 UJ	0.00110 UJ	0.00150 UJ	0.00180 UJ	0.00140 UJ	0.00100 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide mg/kg
Sediment ERL			
Sediment ERM			
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	1.40 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	1.40 U
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	1.40 U
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	2.50 U
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	1.20 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	1.60 U
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	1.50 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	2.30 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	3.50 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	2.20 UJ
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	1.70 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	3.50 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	2.80 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	2.60 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	5.40 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	3.80 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	4.20 UJ
SED-7	'0-0.5	10/10/2006	0.870 U
SED-8	'0-0.5	10/10/2006	0.540 U
SED-9	'0-0.5	10/10/2006	0.380 U
SED-A-1-0-0.5	'0-0.5	10/9/2006	1.70
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.530 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.860
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.470 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	1.00 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.650 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.340 U
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.270 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.520
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.660
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.400 U
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.900 U
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.670 U
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.600 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.490 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.620 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.930 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.620 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.740 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.560 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.410 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.790 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	1.50 UJ
SED-DC-1	'0-0.5	9/20/2001	2.20 UJ
SED-DC-2	'0-0.5	9/20/2001	1.70 U
SED-DC-3	'0-0.5	9/20/2001	3.60 UJ
SED-E-1-0-0.5	'0-0.5	10/3/2006	1.00 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.460 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide mg/kg	
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.530	UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.520	UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.520	UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	1.10	UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.400	U
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.380	U
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.300	U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.340	U
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.520	UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.520	UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.440	UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,3,4,6,7,8-HPCDD	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDD	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDD	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDD	1,2,3,7,8,9-HXCDF
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL											
Sediment ERM											
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.0000762	0.0000684	0.0000199	0.00000145 A	0.0000688	0.00000517 A	0.0000201 DPE	0.00000338 A	0.0000201
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.0000117 A	0.00000188 A	0.000000189 A	0.000000322 A	0.000000623 A	0.000000667 A	0.000000322 A	0.000000561 A	0.000000206 A
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.0000784	0.0000317	0.00000847 A	0.00000117 A	0.0000233	0.00000353 A	0.00000841 DPE A	0.00000229 A	0.00000605 A
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.0000181	0.0000244	0.00000670	0.000000442 A	0.0000319	0.00000137 A	0.00000913	0.00000107 A	0.00000939
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.0000151	0.0000223	0.00000833 A	0.00000117 UJ	0.000106	0.00000135 A	0.0000227	0.00000133 A	0.0000258
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.000152	0.000229	0.0000949	0.00000468 A	0.000420	0.00000967 A	0.0000621	0.00000834 A	0.0000668
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.000495	0.000246	0.0000591	0.00000998 A	0.000163 DPE	0.0000254	0.0000469	0.0000173 A	0.0000461 Q
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.0000472	0.0000296	0.00000400 A	0.000000799 A	0.0000190	0.00000328 A	0.00000603 A	0.00000211 A	0.00000467 A
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.0000353	0.0000250 Q	0.00000436 A	0.000000929 A	0.0000158	0.00000296 A	0.00000457 A	0.00000188 A	0.00000414 A
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.000168	0.00000374 A	0.000000916 UJ	0.000000462 A	0.000000502 A	0.00000107 A	0.000000344 A	0.00000110 A	0.000000916 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,3,7,8-PECDD	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDF	Tetrachlorodibenzo-P-Dioxin	OCDD	OCDF	Total HPCDDS
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL											
Sediment ERM											
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.00000165 A	0.0000528 DPE	0.0000108 A	0.0000587	0.000173	0.00000442	0.000911	0.000195	0.000208
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.000000322 A	0.000000461 A	0.000000334 A	0.000000817 A	0.00000254 A	0.000000617 A	0.000205	0.00000275 A	0.0000309
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.00000129 A	0.0000222 DPE	0.00000420 A	0.0000235	0.0000991	0.00000174 A	0.000942	0.0000907	0.000425
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.000000749 A	0.0000288 DPE	0.00000399 A	0.0000303	0.000115	0.000000747 A	0.000310	0.0000809	0.0000665
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.00000117 UJ	0.0000824 DPE	0.00000768 A	0.0000858	0.0000487	0.000000688 UJ	0.000210	0.0000242	0.0000416
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.00000430 A	0.000182 DPE	0.0000292	0.000166	0.000342	0.00000933	0.00167	0.000472	0.000521
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.00000614 Q A	0.000102 Q DPE	0.0000318	0.000114 Q	0.000178	0.0000192 Q	0.00526	0.000651	0.00168
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.00000102 A	0.0000125 DPE A	0.00000425 A	0.0000135 A	0.0000200	0.00000365	0.000503	0.0000591	0.000111
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.000000975 A	0.0000130 DPE	0.00000331 A	0.0000141	0.0000214	0.00000321 Q	0.000353	0.0000402	0.000100
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.000000293 A	0.000000403 A	0.000000341 A	0.000000557 A	0.00000118 A	0.000000337 A	0.00312	0.0000280	0.000386

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
DIOXINS and FURANS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Total HPCDFS mg/kg	Total HXCDDS mg/kg	Total HXCDFS mg/kg	Total PECDDS mg/kg	Total PECDFS mg/kg	Total TCDDS mg/kg	Total TCDFS mg/kg
Sediment ERL									
Sediment ERM									
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.000143	0.0000532	0.000183	0.0000239	0.000300	0.0000214	0.000647
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.00000357	0.0000115	0.00000326	0.00000268	0.00000492	0.00000223	0.00000979
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.0000755	0.0000392	0.0000713	0.0000112	0.000138	0.0000231	0.000368
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.0000446	0.0000188	0.0000741	0.0000200	0.000139	0.0000187	0.000395
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.0000405	0.0000184	0.000192	0.00000548	0.000265	0.00000253	0.000156
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.000462	0.0000923	0.000672	0.0000275	0.000514	0.0000331	0.000752
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.000703	0.000235	0.000477	0.0000838	0.000428	0.000161	0.000713
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.0000530	0.0000339	0.0000656	0.0000124	0.0000880	0.0000249	0.000116
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.0000472	0.0000313	0.0000599	0.00000637	0.0000859	0.0000115	0.000119
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.0000113	0.0000264	0.00000386	0.00000455	0.00000487	0.00000165	0.00000758

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	.1,1'-Binaphthalene.-2,2'-Diol	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	11h-Benzo.b.fluorene	1-Chloropyrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL										
Sediment ERM										
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001			0.2	0.1 U	0.1 U	0.1 U		
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001			3.0	0.5	0.1 J	0.1		
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001			1.1	0.2	0.1 U	0.1 U		
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001			0.1 J	0.1 J	0.2 U	0.1 J	1.9 JN	3.0 JN
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001			0.1 U	0.1 U	0.1 U	0.1 J		
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001			0.4	0.1 J	0.1 J	0.2		
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001			0.1 U	0.1 U	0.1 U	0.1 U		
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001			0.1 J	0.2 UJ	0.2 UJ	0.1 J		
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001			0.2 UJ	0.2 J	0.2 UJ	0.1 J		
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001			0.1 J	0.1 UJ	0.1 UJ	0.1 UJ		
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001			0.1 U	0.2	0.1 J	0.3		
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001			0.2 UJ	0.6 J	0.2 UJ	0.2 UJ		
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001			0.2 UJ	0.4 J	0.2 UJ	0.2 UJ		
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001			0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ		
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001			0.4 UJ	0.4 UJ	0.4 UJ	0.4 UJ		
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001			0.3 UJ	0.3 UJ	0.3 UJ	0.3 UJ		
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001			0.3 UJ	0.2 J	0.3 UJ	0.3 UJ		
SED-7	'0-0.5	10/10/2006		0.1 U						
SED-8	'0-0.5	10/10/2006		0.0 U						
SED-9	'0-0.5	10/10/2006		0.0 U						
SED-A-1-0-0.5	'0-0.5	10/9/2006		0.1 U						
SED-A-2-0.5-1.0	'0.5-1	10/9/2006		0.0 U						
SED-A-2-0-0.5	'0-0.5	10/9/2006		0.2 U						
SED-A-2-1.0-1.5	'1-1.5	10/9/2006		0.0 U						
SED-A-3-0-0.5	'0-0.5	10/9/2006		0.4 U						
SED-B-1-0-0.5	'0-0.5	10/6/2006		0.0 U						
SED-B-2-0.5-1.0	'0.5-1	10/6/2006		0.0 U						
SED-B-2-0-0.5	'0-0.5	10/6/2006		0.0 U						
SED-B-2-1.0-1.5	'1-1.5	10/6/2006		0.0 U						
SED-B-2-1.5-2.0	'1.5-2	10/6/2006		0.0 U						
SED-B-3-0-0.5	'0-0.5	10/6/2006		0.0 U						

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	.1,1'-Binaphthalene.-2,2'-Diol	1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	11h-Benzo.b.fluorene	1-Chloropyrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SED-C-1-0-0.5	'0-0.5	10/6/2006		0.1 U						
SED-C-2-0.5-1.0	'0.5-1	10/6/2006		0.0 U						
SED-C-2-0-0.5	'0-0.5	10/6/2006		0.0 U						
SED-C-2-1.0-1.5	'1-1.5	10/6/2006		0.0 U						
SED-C-3-0-0.5	'0-0.5	10/6/2006		0.0 U						
SED-D-1-0-0.5	'0-0.5	10/5/2006		0.3 UJ						
SED-D-2-0.5-1.0	'0.5-1	10/5/2006		0.0 UJ						
SED-D-2-0-0.5	'0-0.5	10/5/2006		0.1 UJ						
SED-D-2-1.0-1.5	'1-1.5	10/5/2006		0.2 UJ						
SED-D-2-1.5-2.0	'1.5-2	10/5/2006		0.2 U						
SED-D-2-2.0-2.5	'2-2.5	10/5/2006		0.1 UJ						
SED-D-3-0-0.5	'0-0.5	10/5/2006		0.5 UJ						
SED-DC-1	'0-0.5	9/20/2001			0.8 UJ	0.8 UJ	0.8 UJ	0.8 UJ		
SED-DC-2	'0-0.5	9/20/2001			0.6 U	0.6 U	0.6 U	0.6 U		
SED-DC-3	'0-0.5	9/20/2001	3.7 JN		0.7 J	0.6 J	0.2 UJ	2.1 J		
SED-E-1-0-0.5	'0-0.5	10/3/2006		0.1 UJ						
SED-E-2-0.5-1.0	'0.5-1	10/5/2006		0.0 UJ						
SED-E-2-0-0.5	'0-0.5	10/5/2006		0.0 UJ						
SED-E-2-1.0-1.5	'1-1.5	10/5/2006		0.0 UJ						
SED-E-2-1.5-2.0	'1.5-2	10/5/2006		0.0 UJ						
SED-E-3-0-0.5	'0-0.5	10/3/2006		0.1 UJ						
SED-F-1-0-0.5	'0-0.5	10/4/2006		0.1 J						
SED-F-2-0-0.5	'0-0.5	10/4/2006		0.1 J						
SED-F-3-0-0.5	'0-0.5	10/4/2006		0.7						
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006		0.3						
SED-G-1-0-0.5	'0-0.5	10/2/2006		0.0 UJ						
SED-G-2-0-0.5	'0-0.5	10/2/2006		0.0 UJ						
SED-G-3-0-0.5	'0-0.5	10/2/2006		0.0 UJ						

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL											
Sediment ERM											
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001		0.2 U	0.2 U	0.2 U	0.2 U	0.9 U	0.0910 U	0.1 U	
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001		0.2 U	0.2 U	0.2 U	0.2 U	0.9 U	0.0930 U	0.1 U	
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001		0.3 U	0.3 U	0.3 U	0.3 U	1.0 U	0.1000 U	0.1 U	
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001		0.4 U	0.4 U	0.4 U	0.4 U	1.8 U	0.1800 U	0.2 U	
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001		0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.0810 U	0.1 U	
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001		0.3 U	0.3 U	0.3 U	0.3 U	1.0 U	0.1000 U	0.1 U	
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001		0.3 U	0.3 U	0.3 U	0.3 U	1.1 U	0.1100 U	0.1 U	
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001		0.4 UJ	0.4 UJ	0.4 UJ	0.4 UJ	1.5 UJ	0.1500 UJ	0.2 UJ	
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001		0.6 UJ	0.6 UJ	0.6 UJ	0.6 UJ	2.4 UJ	0.2400 UJ	0.2 UJ	
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001		0.4 UJ	0.4 UJ	0.4 UJ	0.4 UJ	1.4 UJ	0.1400 UJ	0.1 UJ	
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001		0.3 U	0.3 U	0.3 U	0.3 U	1.2 U	0.1200 U	0.1 U	
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001		0.6 UJ	0.6 UJ	0.6 UJ	0.6 UJ	2.4 UJ	0.2400 UJ	0.2 UJ	
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001		0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	1.9 UJ	0.1900 UJ	0.2 UJ	
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001		0.4 UJ	0.4 UJ	0.4 UJ	0.4 UJ	1.7 UJ	0.1700 UJ	0.2 UJ	
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001		0.9 UJ	0.9 UJ	0.9 UJ	0.9 UJ	3.8 UJ	0.3800 UJ	0.4 UJ	
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001		0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ	2.7 UJ	0.2700 UJ	0.3 UJ	
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001		0.8 UJ	0.8 UJ	0.8 UJ	0.8 UJ	3.2 UJ	0.3200 UJ	0.3 UJ	
SED-7	'0-0.5	10/10/2006		0.2 U	0.1 U	0.2 U	0.3 U	0.2 U	0.1500 U	0.2 U	
SED-8	'0-0.5	10/10/2006		0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.0970 U	0.1 U	
SED-9	'0-0.5	10/10/2006		0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.0700 U	0.1 U	
SED-A-1-0-0.5	'0-0.5	10/9/2006		0.2 U	0.1 U	0.3 U	0.4 U	0.2 U	0.1900 U	0.2 U	
SED-A-2-0.5-1.0	'0.5-1	10/9/2006		0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.0870 U	0.1 U	
SED-A-2-0-0.5	'0-0.5	10/9/2006		0.5 U	0.3 U	0.6 U	0.9 U	0.6 U	0.4200 U	0.4 U	
SED-A-2-1.0-1.5	'1-1.5	10/9/2006		0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.0840 U	0.1 U	
SED-A-3-0-0.5	'0-0.5	10/9/2006		1.1 U	0.6 U	1.2 U	1.9 U	1.1 U	0.8600 U	0.8 U	
SED-B-1-0-0.5	'0-0.5	10/6/2006		0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.1100 U	0.1 U	
SED-B-2-0.5-1.0	'0.5-1	10/6/2006		0.1 U	0.0 U	0.1 U	0.1 U	0.1 U	0.0560 U	0.1 U	
SED-B-2-0-0.5	'0-0.5	10/6/2006		0.1 U	0.0 U	0.1 U	0.1 U	0.1 U	0.0500 U	0.0 U	
SED-B-2-1.0-1.5	'1-1.5	10/6/2006		0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.0710 U	0.1 U	
SED-B-2-1.5-2.0	'1.5-2	10/6/2006		0.1 U	0.0 U	0.1 U	0.2 U	0.1 U	0.0660 U	0.1 U	
SED-B-3-0-0.5	'0-0.5	10/6/2006		0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.0700 U	0.1 U	

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2,6-Di-Tert-Butyl-4-Methyl Phenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SED-C-1-0-0.5	'0-0.5	10/6/2006		0.2 U	0.1 U	0.2 U	0.3 U	0.2 U	0.1400 U	0.1 U	
SED-C-2-0.5-1.0	'0.5-1	10/6/2006		0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.1100 U	0.1 U	
SED-C-2-0-0.5	'0-0.5	10/6/2006		0.2 U	0.1 U	0.2 U	0.3 U	0.2 U	0.1100 U	0.1 U	
SED-C-2-1.0-1.5	'1-1.5	10/6/2006		0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.0880 U	0.1 U	
SED-C-3-0-0.5	'0-0.5	10/6/2006		0.1 U	0.1 U	0.2 U	0.3 U	0.2 U	0.1100 U	0.1 U	
SED-D-1-0-0.5	'0-0.5	10/5/2006		1.0 UJ	0.6 UJ	1.1 UJ	1.7 UJ	1.0 UJ	0.7700 UJ	0.8 UJ	
SED-D-2-0.5-1.0	'0.5-1	10/5/2006		0.1 UJ	0.1 UJ	0.2 UJ	0.2 UJ	0.1 UJ	0.1000 UJ	0.1 UJ	
SED-D-2-0-0.5	'0-0.5	10/5/2006		0.2 UJ	0.1 UJ	0.2 UJ	0.3 UJ	0.2 UJ	0.1300 UJ	0.1 UJ	
SED-D-2-1.0-1.5	'1-1.5	10/5/2006		0.7 UJ	0.4 UJ	0.8 UJ	1.2 UJ	0.7 UJ	0.5300 UJ	0.5 UJ	
SED-D-2-1.5-2.0	'1.5-2	10/5/2006		0.5 U	0.3 U	0.5 U	0.8 U	0.5 U	0.3700 U	0.4 U	
SED-D-2-2.0-2.5	'2-2.5	10/5/2006		0.2 UJ	0.1 UJ	0.2 UJ	0.3 UJ	0.2 UJ	0.1500 UJ	0.1 UJ	
SED-D-3-0-0.5	'0-0.5	10/5/2006		1.5 UJ	0.8 UJ	1.7 UJ	2.6 UJ	1.5 UJ	1.2000 UJ	1.1 UJ	
SED-DC-1	'0-0.5	9/20/2001		1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	7.8 UJ	0.7800 UJ	0.8 UJ	8.7 JN
SED-DC-2	'0-0.5	9/20/2001		1.5 U	1.5 U	1.5 U	1.5 U	6.1 U	0.6100 U	0.6 U	
SED-DC-3	'0-0.5	9/20/2001		0.6 UJ	0.6 UJ	0.6 UJ	0.6 UJ	2.4 UJ	0.2400 UJ	0.2 UJ	
SED-E-1-0-0.5	'0-0.5	10/3/2006		0.3 UJ	0.1 UJ	0.3 UJ	0.4 UJ	0.3 UJ	0.1900 UJ	0.2 UJ	
SED-E-2-0.5-1.0	'0.5-1	10/5/2006		0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.0800 UJ	0.1 UJ	
SED-E-2-0-0.5	'0-0.5	10/5/2006		0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.0980 UJ	0.1 UJ	
SED-E-2-1.0-1.5	'1-1.5	10/5/2006		0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.0910 UJ	0.1 UJ	
SED-E-2-1.5-2.0	'1.5-2	10/5/2006		0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.0890 UJ	0.1 UJ	
SED-E-3-0-0.5	'0-0.5	10/3/2006		0.3 UJ	0.1 UJ	0.3 UJ	0.4 UJ	0.3 UJ	0.2000 UJ	0.2 UJ	
SED-F-1-0-0.5	'0-0.5	10/4/2006		0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.0690 U	0.1 U	
SED-F-2-0-0.5	'0-0.5	10/4/2006		0.1 U	0.0 U	0.1 U	0.2 U	0.1 U	0.0660 U	0.1 U	
SED-F-3-0-0.5	'0-0.5	10/4/2006	1.9 JN	0.1 U	0.0 U	0.1 U	0.2 J	0.1 U	0.0550 U	0.1 U	
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006		0.1 U	0.0 U	0.1 U	0.1 U	0.1 U	0.0630 U	0.1 U	
SED-G-1-0-0.5	'0-0.5	10/2/2006		0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.0980 UJ	0.1 UJ	
SED-G-2-0-0.5	'0-0.5	10/2/2006		0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.0910 UJ	0.1 UJ	
SED-G-3-0-0.5	'0-0.5	10/2/2006		0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.0820 UJ	0.1 UJ	

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chloronaphthalene mg/kg	2-Chlorophenol mg/kg	2-Methylnaphthalene mg/kg	2-Methylphenol mg/kg	2-Nitroaniline mg/kg	2-Nitrophenol mg/kg	2-Pentanone, 4-Hydroxy-4-Methyl- mg/kg	3,3'-Dichlorobenzidine mg/kg	3-Nitroaniline mg/kg
Sediment ERL					0.07						
Sediment ERM					0.67						
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1 J	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	52.0 JNB	0.2 U	0.2 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.2	0.2 U	0.1 U	0.2 U	0.2 U	0.2 U	1.0 JNB	0.2 U	0.2 U
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.1 J	0.3 U	0.1 U	0.3 U	0.3 U	0.3 U	53.0 JNB	0.3 U	0.3 U
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	0.2 U	0.4 U	0.2 U	0.4 U	0.4 U	0.4 U	90.0 JNB	0.4 U	0.4 U
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.1 J	0.2 U	0.1	0.2 U	0.2 U	0.2 U	34.0 JNB	0.2 U	0.2 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.1	0.3 U	*1.6*	0.3 U	0.3 U	0.3 U	40.0 JNB	0.3 U	0.3 U
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1 U	0.3 U	0.1 U	0.3 U	0.3 U	0.3 U	46.0 JNB	0.3 U	0.3 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.2 UJ	0.4 UJ	0.2 UJ	0.4 UJ	0.4 UJ	0.4 UJ	60.0 JNB	0.4 UJ	0.4 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.2 UJ	0.6 UJ	0.2 UJ	0.6 UJ	0.6 UJ	0.6 UJ	94.0 JNB	0.6 UJ	0.6 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1 UJ	0.4 UJ	0.1 UJ	0.4 UJ	0.4 UJ	0.4 UJ	57.0 JNB	0.4 UJ	0.4 UJ
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.1 U	0.3 U	0.1 U	0.3 U	0.3 U	0.3 U	45.0 JNB	0.3 U	0.3 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.2 UJ	0.6 UJ	0.2 UJ	0.6 UJ	0.6 UJ	0.6 UJ	84.0 JNB	0.6 UJ	0.6 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.2 UJ	0.5 UJ	0.2 UJ	0.5 UJ	0.5 UJ	0.5 UJ	79.0 JNB	0.5 UJ	0.5 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.2 UJ	0.4 UJ	0.2 UJ	0.4 UJ	0.4 UJ	0.4 UJ	68.0 JNB	0.4 UJ	0.4 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.4 UJ	0.9 UJ	0.4 UJ	0.9 UJ	0.9 UJ	0.9 UJ	170.0 JNB	0.9 UJ	0.9 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.3 UJ	0.7 UJ	0.3 UJ	0.7 UJ	0.7 UJ	0.7 UJ	90.0 JNB	0.7 UJ	0.7 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.3 UJ	0.8 UJ	0.3 UJ	0.8 UJ	0.8 UJ	0.8 UJ	140.0 JNB	0.8 UJ	0.8 UJ
SED-7	'0-0.5	10/10/2006	0.2 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U		0.1 U	0.1 U
SED-8	'0-0.5	10/10/2006	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U
SED-9	'0-0.5	10/10/2006	0.1 U	0.1 U	0.0 U	0.1 U	0.0 U	0.1 U		0.1 U	0.0 U
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.2 U	0.1 U	0.1 U	0.2 U	0.1 U	0.2 U		0.2 U	0.1 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.1 U	0.1 U	0.0 U	0.1 U	0.0 U	0.1 U		0.1 U	0.1 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.5 U	0.3 U	0.2 U	0.4 U	0.2 U	0.5 U		0.3 U	0.3 U
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.1 U	0.1 U	0.0 U	0.1 U	0.0 U	0.1 U		0.1 U	0.1 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	1.0 U	0.6 U	0.5 U	0.7 U	0.5 U	0.9 U		0.7 U	0.6 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.1 U	0.0 U	0.0 U	0.0 U	0.0 U	0.1 U		0.0 U	0.0 U
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.1 U	0.0 U	0.0 U	0.0 U	0.0 U	0.1 U		0.0 U	0.0 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.1 U	0.1 U	0.0 U	0.1 U	0.0 U	0.1 U		0.1 U	0.0 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.1 U	0.0 U	0.0 U	0.1 U	0.0 U	0.1 U		0.1 U	0.0 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.1 U	0.1 U	0.0 U	0.1 U	0.0 U	0.1 U		0.1 U	0.0 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chloronaphthalene mg/kg	2-Chlorophenol mg/kg	2-Methylnaphthalene mg/kg	2-Methylphenol mg/kg	2-Nitroaniline mg/kg	2-Nitrophenol mg/kg	2-Pentanone, 4-Hydroxy-4-Methyl- mg/kg	3,3'-Dichlorobenzidine mg/kg	3-Nitroaniline mg/kg
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.2 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U		0.1 U	0.1 U
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.1 U	0.1 U	0.0 U	0.1 U	0.0 U	0.1 U		0.1 U	0.1 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.1 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.9 UJ	0.6 UJ	0.4 UJ	0.7 UJ	0.4 UJ	0.8 UJ		0.6 UJ	0.5 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ		0.1 UJ	0.1 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.2 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ		0.1 UJ	0.1 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.6 UJ	0.4 UJ	0.3 UJ	0.5 UJ	0.3 UJ	0.6 UJ		0.4 UJ	0.4 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.4 U	0.3 U	0.2 U	0.3 U	0.2 U	0.4 U		0.3 U	0.3 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.2 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ		0.1 UJ	0.1 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	1.4 UJ	0.9 UJ	0.7 UJ	1.0 UJ	0.6 UJ	1.2 UJ		1.0 UJ	0.8 UJ
SED-DC-1	'0-0.5	9/20/2001	0.8 UJ	1.9 UJ	0.8 UJ	1.9 UJ	1.9 UJ	1.9 UJ		1.9 UJ	1.9 UJ
SED-DC-2	'0-0.5	9/20/2001	0.6 U	1.5 U	0.6 U	1.5 U	1.5 U	1.5 U		1.5 U	1.5 U
SED-DC-3	'0-0.5	9/20/2001	0.2 UJ	0.6 UJ	0.3 J	0.6 UJ	0.6 UJ	0.6 UJ		0.6 UJ	0.6 UJ
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.2 UJ	0.1 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.2 UJ		0.2 UJ	0.1 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.1 UJ	0.1 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.1 UJ		0.1 UJ	0.1 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ		0.1 UJ	0.1 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ		0.1 UJ	0.1 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.0 UJ	0.1 UJ		0.1 UJ	0.1 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.2 UJ	0.2 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.2 UJ		0.2 UJ	0.1 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.1 U	0.1 U	0.0 U	0.1 U	0.0 U	0.1 U		0.1 U	0.0 U
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.1 U	0.0 U	0.1 J	0.1 U	0.0 U	0.1 U		0.1 U	0.0 U
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.1 U	0.0 U	*1.4*	0.1 J	0.0 U	0.1 U		0.0 U	0.0 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.1 U	0.0 U	*0.8*	0.1 U	0.0 U	0.1 U		0.1 U	0.0 U
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ		0.1 UJ	0.1 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ		0.1 UJ	0.1 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.1 UJ	0.1 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.1 UJ		0.1 UJ	0.1 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4,6-Dinitro-2-Methylphenol mg/kg	4-Bromophenyl-Phenyl Ether mg/kg	4-Chloro-3-Methylphenol mg/kg	4-Chloroaniline mg/kg	4-Chlorophenyl-Phenyl Ether mg/kg	4-Nitroaniline mg/kg	4-Nitrophenol mg/kg	9(10h)-Acridinone mg/kg	9,10-Anthracenedione mg/kg	Acenaphthene mg/kg
Sediment ERL												0.16
Sediment ERM												0.5
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.9 U	0.1 U	0.2 U	0.2 U	0.1 U	0.2 U	0.9 U		1.1 JN	0.1 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.9 U	0.1 U	0.2 U	0.2 U	0.1 U	0.2 U	0.9 U			0.2
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	1.0 U	0.1 U	0.3 U	0.3 U	0.1 U	0.3 U	1.0 U			0.1 J
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	1.8 U	0.2 U	0.4 U	0.4 U	0.2 U	0.4 U	1.8 U		2.4 JN	0.1 J
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.8 U	0.1 U	0.2 U	0.2 U	0.1 U	0.2 U	0.8 U	0.4 JN		*3.8*
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	1.0 U	0.1 U	0.3 U	0.3 U	0.1 U	0.3 U	1.0 U			*17.0*
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	1.1 U	0.1 U	0.3 U	0.3 U	0.1 U	0.3 U	1.1 U			0.1 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	1.5 UJ	0.2 UJ	0.4 UJ	0.4 UJ	0.2 UJ	0.4 UJ	1.5 UJ			0.2 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	2.4 UJ	0.2 UJ	0.6 UJ	0.6 UJ	0.2 UJ	0.6 UJ	2.4 UJ			0.2 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	1.4 UJ	0.1 UJ	0.4 UJ	0.4 UJ	0.1 UJ	0.4 UJ	1.4 UJ			0.1 UJ
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	1.2 U	0.1 U	0.3 U	0.3 U	0.1 U	0.3 U	1.2 U			0.1 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	2.4 UJ	0.2 UJ	0.6 UJ	0.6 UJ	0.2 UJ	0.6 UJ	2.4 UJ			0.2 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	1.9 UJ	0.2 UJ	0.5 UJ	0.5 UJ	0.2 UJ	0.5 UJ	1.9 UJ			0.2 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	1.7 UJ	0.2 UJ	0.4 UJ	0.4 UJ	0.2 UJ	0.4 UJ	1.7 UJ			0.2 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	3.8 UJ	0.4 UJ	0.9 UJ	0.9 UJ	0.4 UJ	0.9 UJ	3.8 UJ			0.4 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	2.7 UJ	0.3 UJ	0.7 UJ	0.7 UJ	0.3 UJ	0.7 UJ	2.7 UJ			0.3 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	3.2 UJ	0.3 UJ	0.8 UJ	0.8 UJ	0.3 UJ	0.8 UJ	3.2 UJ			0.3 UJ
SED-7	'0-0.5	10/10/2006	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U		1.2 J	0.1 U
SED-8	'0-0.5	10/10/2006	0.1 U	0.0 U	0.1 U	0.1 U	0.0 U	0.1 U	0.1 U			0.0 U
SED-9	'0-0.5	10/10/2006	0.1 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U			0.2
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U			0.1 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.1 U	0.0 U	0.1 U	0.0 U	0.0 U	0.1 U	0.1 U			0.0 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.3 U	0.2 U	0.5 U	0.2 U	0.2 U	0.3 U	0.5 U			*0.6 J*
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.1 U	0.0 U	0.1 U	0.0 U	0.0 U	0.1 U	0.1 U			0.0 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.6 U	0.4 U	0.9 U	0.5 U	0.4 U	0.5 U	1.0 U			0.4 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.1 U	0.0 U	0.1 U	0.1 U	0.0 U	0.1 U	0.1 U			0.2
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.0 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U			0.0 U
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.0 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U			0.0 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.1 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U			0.0 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.1 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U			0.0 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.1 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U			0.0 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4,6-Dinitro-2-Methylphenol mg/kg	4-Bromophenyl-Phenyl Ether mg/kg	4-Chloro-3-Methylphenol mg/kg	4-Chloroaniline mg/kg	4-Chlorophenyl-Phenyl Ether mg/kg	4-Nitroaniline mg/kg	4-Nitrophenol mg/kg	9(10h)-Acridinone mg/kg	9,10-Anthracenedione mg/kg	Acenaphthene mg/kg
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U	0.1 U	0.2 U			0.1 U
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.1 U	0.0 U	0.1 U	0.1 U	0.0 U	0.1 U	0.1 U			0.0 U
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.1 U	0.1 U	0.1 U	0.1 U	0.0 U	0.1 U	0.1 U			0.1 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.1 U	0.0 U	0.1 U	0.0 U	0.0 U	0.1 U	0.1 U			0.0 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.1 U	0.0 U	0.1 U	0.1 U	0.0 U	0.1 U	0.1 U			0.0 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.6 UJ	0.3 UJ	0.9 UJ	0.4 UJ	0.3 UJ	0.5 UJ	0.9 UJ			0.3 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.1 UJ	0.0 UJ	0.1 UJ	0.1 UJ	0.0 UJ	0.1 UJ	0.1 UJ			0.0 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ			0.1 UJ
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.4 UJ	0.2 UJ	0.6 UJ	0.3 UJ	0.2 UJ	0.3 UJ	0.6 UJ			0.2 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.3 U	0.2 U	0.4 U	0.2 U	0.2 U	0.2 U	0.4 U			0.2 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.1 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ			0.1 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.9 UJ	0.5 UJ	1.3 UJ	0.6 UJ	0.5 UJ	0.7 UJ	1.4 UJ			0.5 UJ
SED-DC-1	'0-0.5	9/20/2001	7.8 UJ	0.8 UJ	1.9 UJ	1.9 UJ	0.8 UJ	1.9 UJ	7.8 UJ			0.8 UJ
SED-DC-2	'0-0.5	9/20/2001	6.1 U	0.6 U	1.5 U	1.5 U	0.6 U	1.5 U	6.1 U			0.2 J
SED-DC-3	'0-0.5	9/20/2001	2.4 UJ	0.2 UJ	0.6 UJ	0.6 UJ	0.2 UJ	0.6 UJ	2.4 UJ			0.2 J
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.2 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ			0.1 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.1 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.0 UJ	0.1 UJ			0.0 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.1 UJ	0.0 UJ	0.1 UJ	0.1 UJ	0.0 UJ	0.1 UJ	0.1 UJ			0.0 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.1 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.1 UJ	0.1 UJ			0.0 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.1 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.1 UJ	0.1 UJ			0.0 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.2 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ			0.1 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.1 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U			*0.8*
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.1 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U			0.3
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.0 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U		2.5 JN	*4.0*
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.0 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U		22.0 J	*2.5*
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.1 UJ	0.0 UJ	0.1 UJ	0.1 UJ	0.0 UJ	0.1 UJ	0.1 UJ			0.0 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.1 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.1 UJ	0.1 UJ			0.0 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.1 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.0 UJ	0.1 UJ			0.0 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acenaphthylene mg/kg	Acetophenone mg/kg	Acridine mg/kg	Anthracene mg/kg	Atrazine mg/kg	Benzaldehyde mg/kg	Benzo (a) Anthracene mg/kg	Benzo (a) Pyrene mg/kg	Benzo (b) fluoranthene mg/kg	Benzo (g,H,i) Perylene mg/kg
Sediment ERL			0.044			0.085			0.3	0.4		
Sediment ERM			0.64			1.1			*0.2*	*1.6*		
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1 J			0.2			0.8	0.3	1.0	0.2
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0 J			0.1 U			*0.2*	0.2	0.4	0.1 J
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.1 U			0.1 U			0.0 J	0.1 U	0.1 U	0.1 U
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	*0.6*			*1.8*			4.0	*1.7*	7.5	1.0
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.1 U		0.3 JN	0.2			0.1 J	0.0 J	0.0 J	0.1 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.3			*5.0*			3.0	0.9	1.6	0.2
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1 U			0.0 J			0.1 J	0.1 J	0.1 J	0.0 J
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.2 UJ			0.2 UJ			0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.2 UJ			0.2 UJ			0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1 UJ			0.1 UJ			0.1 J	0.1 J	0.1 J	0.0 J
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.1 U			0.1 U			0.0 J	0.0 J	0.0 J	0.1 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.2 UJ			0.2 UJ			0.2 UJ	0.1 J	0.2 UJ	0.2 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.2 UJ			0.2 UJ			0.2 UJ	0.0 J	0.2 UJ	0.2 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.2 UJ			0.2 UJ			0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.4 UJ			0.4 UJ			0.4 UJ	0.4 UJ	0.4 UJ	0.4 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.3 UJ			0.3 UJ			0.3 UJ	0.3 UJ	0.3 UJ	0.3 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.3 UJ			0.3 UJ			0.3 UJ	0.3 UJ	0.3 UJ	0.3 UJ
SED-7	'0-0.5	10/10/2006	0.1 J	0.1 U		0.4	0.1 U	0.3 J	0.8	0.7	1.5	0.4
SED-8	'0-0.5	10/10/2006	0.0 J	0.1 U		0.1 J	0.1 U	0.1 U	*0.2*	0.2	0.4	0.1 J
SED-9	'0-0.5	10/10/2006	0.1 J	0.0 U		1.0	0.1 U	0.1 U	1.5	1.2	1.3	0.5
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.1 U	0.1 U		0.2 J	0.1 U	0.2 U	*0.3 J*	0.3 J	0.2 J	0.2 J
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.0 U	0.0 U		0.0 U	0.1 U	0.1 U	0.0 J	0.0 J	0.0 U	0.0 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.2 U	0.2 U		*1.5*	0.3 U	0.4 U	3.5	*3.0*	3.4	1.7
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.0 U	0.0 U		0.0 U	0.1 U	0.1 U	0.0 U	0.0 U	0.0 U	0.0 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.3 U	0.5 U		0.4 J	0.6 U	0.8 U	1.0 J	1.0 J	1.6	0.5 J
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.4	0.1 U		0.9	0.1 U	0.1 U	2.5	*1.9*	2.6	0.6
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.0 U	0.0 U		0.0 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.0 U
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.0 U	0.0 U		0.0 J	0.0 U	0.0 U	0.1 J	0.1 J	0.1 J	0.0 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.0 U	0.0 U		0.0 J	0.1 U	0.1 U	0.1 J	0.1 J	0.1 J	0.0 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.0 U	0.0 U		0.0 U	0.0 U	0.1 U	0.1 J	0.0 J	0.0 J	0.0 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.0 J	0.0 U		0.1 J	0.1 U	0.1 U	0.1	0.2	0.2	0.1

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Acenaphthylene mg/kg	Acetophenone mg/kg	Acridine mg/kg	Anthracene mg/kg	Atrazine mg/kg	Benzaldehyde mg/kg	Benzo (a) Anthracene mg/kg	Benzo (a) Pyrene mg/kg	Benzo (b) fluoranthene mg/kg	Benzo (g,H,i) Perylene mg/kg
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.1 J	0.1 U		0.2 J	0.1 U	0.1 U	0.5	0.4	0.6	0.3
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.0 U	0.1 U		0.0 U	0.1 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.0 U	0.1 U		0.1 J	0.1 U	0.1 U	*0.2 J*	0.2	0.3	0.1 J
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.0 U	0.0 U		0.0 U	0.1 U	0.1 U	0.0 U	0.0 U	0.0 U	0.0 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.1 J	0.1 U		0.2 J	0.1 U	0.1 U	0.3	0.4	0.6	0.2
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.3 UJ	0.4 UJ		0.3 UJ	0.6 UJ	0.7 UJ	0.4 J	0.4 J	0.5 J	0.4 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.1 J	0.1 UJ		0.1 J	0.1 UJ	0.1 UJ	0.3 J	0.4 J	0.7 J	0.2 J
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.1 J	0.1 UJ		0.1 J	0.1 UJ	0.1 UJ	0.4 J	0.6 J	1.3 J	0.3 J
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.2 UJ	0.3 UJ		0.2 UJ	0.4 UJ	0.5 UJ	0.3 J	0.3 J	0.3 J	0.3 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.1 U	0.2 U		0.1 J	0.3 U	0.4 U	*0.2 J*	0.2 J	0.4 J	0.2 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.1 UJ	0.1 UJ		0.0 UJ	0.1 UJ	0.1 UJ	0.1 J	0.1 J	0.1 J	0.1 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.4 UJ	0.6 UJ		0.4 UJ	0.9 UJ	1.1 UJ	0.5 J	0.6 J	0.9 J	0.6 UJ
SED-DC-1	'0-0.5	9/20/2001	0.8 UJ			0.3 J			0.8 J	*2.7 J*	5.5 J	1.2 J
SED-DC-2	'0-0.5	9/20/2001	0.6 U			0.4 J			1.4	0.9	1.2	0.4 J
SED-DC-3	'0-0.5	9/20/2001	0.2 UJ			0.1 J			*0.2 J*	0.2 J	0.3 J	0.1 J
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.1 UJ	0.1 UJ		0.1 UJ	0.1 UJ	0.2 UJ	0.1 J	0.1 J	0.1 J	0.1 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.0 UJ	0.0 UJ		0.1 J	0.1 UJ	0.1 UJ	*0.2 J*	0.1 J	0.3 J	0.1 J
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.1 J	0.1 UJ		0.2 J	0.1 UJ	0.1 UJ	0.7 J	0.4 J	0.5 J	0.2 J
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.0 UJ	0.1 UJ		0.0 UJ	0.1 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.0 UJ	0.0 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.0 UJ	0.0 UJ		0.0 UJ	0.1 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.0 UJ	0.0 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.1 J	0.1 UJ		0.1 J	0.2 UJ	0.2 UJ	0.4 J	0.4 J	0.5 J	0.2 J
SED-F-1-0-0.5	'0-0.5	10/4/2006	*0.7*	0.0 U		*2.0*	0.1 U	0.1 U	4.0	*4.0*	3.6	2.4
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.2	0.0 U		0.4	0.0 U	0.1 U	1.1	1.0	1.3	0.6
SED-F-3-0-0.5	'0-0.5	10/4/2006	*1.5*	0.0 U		*10.1*	0.0 U	0.1 U	15.5	*13.6*	13.8	4.3
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.6	0.0 U		*3.9*	0.0 U	0.1 U	10.6	*9.4*	10.0	3.0
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.0 J	0.1 UJ		0.1 J	0.1 UJ	0.1 UJ	*0.2 J*	0.2 J	0.2 J	0.2 J
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.0 J	0.1 UJ		0.1 J	0.1 UJ	0.1 UJ	0.1 J	0.1 J	0.1 J	0.1 J
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.0 UJ	0.0 UJ		0.1 J	0.1 UJ	0.1 UJ	*0.2 J*	0.2 J	0.2 J	0.1 J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (k) fluoranthene	Chloroethoxy) Methane	Chloroethyl) Ether	Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Butyl Benzyl Phthalate	Caprolactam	Carbazole	Cholestanol	Cholesterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL												
Sediment ERM												
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.4	0.1 U	0.1 U	0.0910 U	0.4210	0.091 U		0.064 J		
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.2	0.1 U	0.1 U	0.0930 U	3.6400	0.093 U		0.093 U		
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.1 U	0.1 U	0.1 U	0.1000 U	0.6690	0.1 U		0.1 U		
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	2.5	0.2 U	0.2 U	0.1800 U	3.0300	0.18 U		0.72		
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0 J	0.1 U	0.1 U	0.0810 U	0.0857	0.081 U		0.0418 J		
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.7	0.1 U	0.1 U	0.1000 U	0.5470	0.1 U		0.986		
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0 J	0.1 U	0.1 U	0.1100 U	1.1000	0.11 U		0.11 U		1.4 JN
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.2 UJ	0.2 UJ	0.2 UJ	0.1500 UJ	0.3290 J	0.15 UJ		0.15 UJ		
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.2 UJ	0.2 UJ	0.2 UJ	0.2400 UJ	0.2400 UJ	0.24 UJ		0.24 UJ		
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0 J	0.1 UJ	0.1 UJ	0.1400 UJ	0.9820 J	0.14 UJ		0.14 UJ	1 JN	1.3 JN
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0 J	0.1 U	0.1 U	0.1200 U	0.1190 J	0.12 U		0.12 U		
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.2 UJ	0.2 UJ	0.2 UJ	0.2400 UJ	0.2400 UJ	0.24 UJ		0.24 UJ		
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.2 UJ	0.2 UJ	0.2 UJ	0.1900 UJ	0.1900 UJ	0.19 UJ		0.19 UJ	0.4 JN	
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.2 UJ	0.2 UJ	0.2 UJ	0.1700 UJ	0.1700 UJ	0.17 UJ		0.17 UJ		
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.4 UJ	0.4 UJ	0.4 UJ	0.3800 UJ	0.3800 UJ	0.38 UJ		0.38 UJ		
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.3 UJ	0.3 UJ	0.3 UJ	0.2700 UJ	0.2700 UJ	0.27 UJ		0.27 UJ		
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.3 UJ	0.3 UJ	0.3 UJ	0.3200 UJ	0.3200 UJ	0.32 UJ		0.32 UJ		
SED-7	'0-0.5	10/10/2006	1.1	0.1 U	0.1 U	0.0990 U	1.2300	0.1 U	0.13 U	0.219 J		
SED-8	'0-0.5	10/10/2006	0.2	0.1 U	0.0 U	0.0630 U	1.1400	0.064 U	0.081 U	0.0413 J		
SED-9	'0-0.5	10/10/2006	1.1	0.0 U	0.0 U	0.0450 U	0.6610	0.046 U	0.058 U	0.124		
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.3 J	0.1 U	0.1 U	0.1200 U	26.5000	0.12 U	0.15 U	0.065 U		
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.1 U	0.0 U	0.0 U	0.0560 U	0.0960 U	0.057 U	0.072 U	0.03 U		
SED-A-2-0-0.5	'0-0.5	10/9/2006	1.9	0.2 U	0.2 U	0.2700 U	2.3700	0.476 J	0.35 U	0.767		
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.1 U	0.0 U	0.0 U	0.0540 U	0.0930 U	0.055 U	0.07 U	0.029 U		
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.8 J	0.5 U	0.4 U	0.5500 U	1.3400 J	0.56 U	0.71 U	0.3 U		
SED-B-1-0-0.5	'0-0.5	10/6/2006	2.0	0.1 U	0.0 U	0.0680 U	2.6800	0.069 U	0.088 U	0.178 J		
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.0 U	0.0 U	0.0 U	0.0360 U	0.2020	0.037 U	0.047 U	0.02 U		
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.1 J	0.0 U	0.0 U	0.0320 U	0.3520	0.033 U	0.042 U	0.017 U		
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.1 J	0.0 U	0.0 U	0.0460 U	0.1190 J	0.047 U	0.059 U	0.025 U		
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.0 J	0.0 U	0.0 U	0.0430 U	0.0730 U	0.043 U	0.055 U	0.023 U		
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.2	0.0 U	0.0 U	0.0450 U	1.0200	0.046 U	0.058 U	0.024 U		

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Benzo (k) fluoranthene	Chloroethoxy) Methane	Chloroethyl) Ether	Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Butyl Benzyl Phthalate	Caprolactam	Carbazole	Cholestanol	Cholesterol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.4	0.1 U	0.1 U	0.0930 U	2.2200	0.094 U	0.12 U	0.05 U		
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.1 U	0.1 U	0.0 U	0.0720 U	0.3960	0.072 U	0.092 U	0.039 U		
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.2 J	0.1 U	0.0 U	0.0730 U	1.7300	0.074 U	0.094 U	0.04 U		
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.1 U	0.0 U	0.0 U	0.0570 U	0.0970 U	0.057 U	0.073 U	0.031 U		
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.4	0.1 U	0.0 U	0.0720 U	3.5900	0.073 U	0.092 U	0.049 J		
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.5 UJ	0.4 UJ	0.3 UJ	0.5000 UJ	1.2500 J	0.5 UJ	0.64 UJ	0.27 UJ		
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.3 J	0.1 UJ	0.0 UJ	0.0670 UJ	1.6500 J	0.068 UJ	0.087 UJ	0.036 UJ		
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.6 J	0.1 UJ	0.1 UJ	0.0820 UJ	1.2000 J	0.083 UJ	0.11 UJ	0.0652 J		
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.4 J	0.3 UJ	0.2 UJ	0.3400 UJ	2.9800 J	0.35 UJ	0.44 UJ	0.19 UJ		
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.2 U	0.2 U	0.2 U	0.2400 U	3.1300	0.24 U	0.31 U	0.13 U		
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.1 UJ	0.1 UJ	0.1 UJ	0.0940 UJ	0.7820 J	0.095 UJ	0.12 UJ	0.051 UJ		
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.8 UJ	0.7 UJ	0.5 UJ	0.7500 UJ	1.5500 J	0.76 UJ	0.97 UJ	0.41 UJ		
SED-DC-1	'0-0.5	9/20/2001	1.8 J	0.8 UJ	0.8 UJ	0.7800 UJ	129.0000 J	0.78 UJ		0.281 J		
SED-DC-2	'0-0.5	9/20/2001	0.5 J	0.6 U	0.6 U	0.6100 U	5.8100	0.61 U		0.307 J		
SED-DC-3	'0-0.5	9/20/2001	0.1 J	0.2 UJ	0.2 UJ	0.2400 UJ	8.1100 J	0.24 UJ		0.24 UJ		
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.1 J	0.1 UJ	0.1 UJ	0.1300 UJ	0.6930 B	0.13 UJ	0.16 UJ	0.068 UJ		
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.2 J	0.0 UJ	0.0 UJ	0.0520 UJ	1.7600 J	0.052 UJ	0.067 UJ	0.028 UJ		
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.4 J	0.1 UJ	0.0 UJ	0.0630 UJ	3.0300 J	0.064 UJ	0.082 UJ	0.0742 J		
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.1 UJ	0.1 UJ	0.0 UJ	0.0590 UJ	0.1850 J	0.06 UJ	0.076 UJ	0.032 UJ		
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.1 UJ	0.0 UJ	0.0 UJ	0.0580 UJ	0.0980 UJ	0.058 UJ	0.074 UJ	0.031 UJ		
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.4 J	0.1 UJ	0.1 UJ	0.1300 UJ	2.8400 B	0.13 UJ	0.17 UJ	0.07 UJ		
SED-F-1-0-0.5	'0-0.5	10/4/2006	3.6	0.0 U	0.0 U	0.0440 U	1.8300	0.045 U	0.057 U	0.552		
SED-F-2-0-0.5	'0-0.5	10/4/2006	1.0	0.0 U	0.0 U	0.0430 U	4.7200	0.043 U	0.055 U	0.135		
SED-F-3-0-0.5	'0-0.5	10/4/2006	13.4	0.0 U	0.0 U	0.0350 U	4.6600	0.036 U	0.046 U	2.54		
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	7.2	0.0 U	0.0 U	0.0410 U	1.0500	0.041 U	0.052 U	2.87		
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.2 J	0.1 UJ	0.0 UJ	0.0630 UJ	1.0400 UJ	0.064 UJ	0.081 UJ	0.034 UJ		
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.1 J	0.1 UJ	0.0 UJ	0.0590 UJ	0.8060 UJ	0.059 UJ	0.076 UJ	0.032 UJ		
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.1 J	0.0 UJ	0.0 UJ	0.0530 UJ	0.0910 UJ	0.054 UJ	0.068 UJ	0.029 UJ		

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	D:c-Friedoolean-8-En-3-One	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL			0.384			0.0634						
Sediment ERM			2.8			0.26						
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	1.3	0.2 U		0.1 J	0.1 U		0.0910 U	0.0910 U	0.0910 U	0.0910 U
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.4	0.2 U		0.1 U	0.1 U		0.0930 U	0.0930 U	0.0930 U	0.0930 U
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.0 J	0.3 U		0.1 U	0.1 U		0.1000 U	0.1000 U	0.1000 U	0.1000 U
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	*9.6*	0.4 U		*0.5*	0.1 J		0.1800 U	0.1800 U	0.1800 U	0.1800 U
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.1	0.2 U		0.1 U	0.1		0.0810 U	0.0810 U	0.0810 U	0.0810 U
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	2.8	0.3 U		0.1 J	5.9	5.2 JN	0.1000 U	0.1000 U	0.1000 U	0.1000 U
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1 J	0.3 U		0.1 U	0.1 U		0.1100 U	0.1100 U	0.1100 U	0.1100 U
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.2 UJ	0.4 UJ		0.2 UJ	0.2 UJ		0.1500 UJ	0.1500 UJ	0.1500 UJ	0.1500 UJ
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.2 UJ	0.6 UJ		0.2 UJ	0.2 UJ		0.2400 UJ	0.2400 UJ	0.2400 UJ	0.2400 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1 J	0.4 UJ		0.1 UJ	0.1 UJ		0.1400 UJ	0.1400 UJ	0.1400 UJ	0.1400 UJ
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0 J	0.3 U		0.1 U	0.1 U		0.1200 U	0.1200 U	0.1200 U	0.1200 U
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.2 UJ	0.6 UJ		0.2 UJ	0.2 UJ		0.2400 UJ	0.2400 UJ	0.2400 UJ	0.2400 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.2 UJ	0.5 UJ		0.2 UJ	0.2 UJ		0.1900 UJ	0.1900 UJ	0.1900 UJ	0.1900 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.2 UJ	0.4 UJ	0.7 JN	0.2 UJ	0.2 UJ		0.1700 UJ	0.1700 UJ	0.1700 UJ	0.1700 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.4 UJ	0.9 UJ		0.4 UJ	0.4 UJ		0.3800 UJ	0.3800 UJ	0.3800 UJ	0.3800 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.3 UJ	0.7 UJ		0.3 UJ	0.3 UJ		0.2700 UJ	0.2700 UJ	0.2700 UJ	0.2700 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.3 UJ	0.8 UJ		0.3 UJ	0.3 UJ		0.3200 UJ	0.3200 UJ	0.3200 UJ	0.3200 UJ
SED-7	'0-0.5	10/10/2006	1.8	0.2 U		0.2 J	0.1 U		0.0560 U	0.6520	0.0840 U	0.1100 U
SED-8	'0-0.5	10/10/2006	0.4	0.1 U		0.0 U	0.0 U		0.0360 U	0.0360 U	0.0530 U	0.0720 U
SED-9	'0-0.5	10/10/2006	1.9	0.1 U		0.2	0.1 J		0.0260 U	0.0260 U	0.0380 U	0.0520 U
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.3	0.2 U		0.1 U	0.1 U		0.0690 U	0.0690 U	0.1000 U	0.1400 U
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.0 J	0.1 U		0.0 U	0.0 U		0.0320 U	0.0320 U	0.0480 U	0.0640 U
SED-A-2-0-0.5	'0-0.5	10/9/2006	*3.4*	0.5 U		*0.6 J*	0.3 J		0.1500 U	0.1500 U	7.3000	0.3100 U
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.0 U	0.1 U		0.0 U	0.0 U		0.0310 U	0.0310 U	0.0460 U	0.0620 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	1.5	1.1 U		0.4 U	0.3 U		0.3200 U	0.3200 U	0.4700 U	0.6300 U
SED-B-1-0-0.5	'0-0.5	10/6/2006	2.2	0.1 U		*0.3*	0.2		0.0390 U	0.0390 U	0.0580 U	0.0780 U
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.0 J	0.1 U		0.0 U	0.0 U		0.0210 U	0.0210 U	0.0310 U	0.0410 U
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.1	0.1 U		0.0 U	0.0 U		0.0190 U	0.0190 U	0.0280 U	0.0370 U
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.1 J	0.1 U		0.0 U	0.0 U		0.0260 U	0.0260 U	0.0390 U	0.0530 U
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.1 J	0.1 U		0.0 U	0.0 U		0.0250 U	0.0250 U	0.0360 U	0.0490 U
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.2	0.1 U		0.0 J	0.0 U		0.0260 U	0.0260 U	0.0380 U	0.0520 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chrysene	Cresols, M & P	D:c-Friedoolean-8-En-3-One	Dibenz (a,H) Anthracene	Dibenzofuran	Dibenzo-thiophene	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.6	0.2 U		0.1 J	0.1 U		0.0530 U	0.0530 U	0.0790 U	0.1100 U
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.1 J	0.1 U		0.1 U	0.0 U		0.0410 U	0.0410 U	0.0610 U	0.0820 U
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.3	0.1 U		0.1 U	0.0 U		0.0420 U	0.0420 U	0.0620 U	0.0840 U
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.0 U	0.1 U		0.0 U	0.0 U		0.0320 U	0.0320 U	0.0480 U	0.0650 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.5	0.1 U		0.1 U	0.0 U		0.0410 U	0.0410 U	0.0610 U	0.0820 U
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.7 J	1.0 UJ		0.4 UJ	0.3 UJ		0.2900 UJ	0.2900 UJ	0.4200 UJ	0.5700 UJ
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.6 J	0.1 UJ		0.1 J	0.0 UJ		0.0390 UJ	0.0390 UJ	0.0570 UJ	0.0770 UJ
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.6 J	0.2 UJ		0.1 J	0.1 UJ		0.0470 UJ	0.0470 UJ	0.0700 UJ	0.3230 J
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.5 J	0.7 UJ		0.2 UJ	0.2 UJ		0.2000 UJ	0.2000 UJ	0.2900 UJ	0.3900 UJ
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.5 J	0.5 U		0.2 U	0.2 U		0.1400 U	0.1400 U	0.2000 U	0.2700 U
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.1 J	0.2 UJ		0.1 UJ	0.1 UJ		0.0540 UJ	0.0540 UJ	0.0800 UJ	0.1100 UJ
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.7 J	1.4 UJ		0.5 UJ	0.5 UJ		0.4300 UJ	0.4300 UJ	0.6400 UJ	0.8600 UJ
SED-DC-1	'0-0.5	9/20/2001	2.2 J	1.9 UJ		0.8 UJ	0.8 UJ		0.7800 UJ	0.7800 UJ	0.5740 J	0.7800 UJ
SED-DC-2	'0-0.5	9/20/2001	1.3	1.5 U		0.6 U	0.6 U		0.6100 U	0.6100 U	0.6100 U	0.6100 U
SED-DC-3	'0-0.5	9/20/2001	0.3 J	0.6 UJ		0.2 UJ	0.2 J		0.2400 UJ	0.2400 UJ	8.5000 J	0.2400 UJ
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.2 J	0.2 UJ		0.1 UJ	0.1 UJ		0.0720 UJ	0.0720 UJ	0.1100 UJ	0.1400 UJ
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.3 J	0.1 UJ		0.0 UJ	0.0 UJ		0.0300 UJ	0.0300 UJ	0.0440 UJ	0.0590 UJ
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.7 J	0.1 UJ		0.1 J	0.0 UJ		0.0360 UJ	0.0360 UJ	0.0540 UJ	0.0720 UJ
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.0 UJ	0.1 UJ		0.0 UJ	0.0 UJ		0.0340 UJ	0.0340 UJ	0.0500 UJ	0.0670 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.0 UJ	0.1 UJ		0.0 UJ	0.0 UJ		0.0330 UJ	0.0330 UJ	0.0490 UJ	0.0660 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.5 J	0.3 UJ		0.1 UJ	0.1 UJ		0.0740 UJ	0.0740 UJ	0.1100 UJ	0.1500 UJ
SED-F-1-0-0.5	'0-0.5	10/4/2006	*3.7*	0.1 U		*0.7*	0.7		0.0250 U	0.0250 U	0.0380 U	0.0510 U
SED-F-2-0-0.5	'0-0.5	10/4/2006	1.8	0.1 U		0.1	0.2		0.0240 U	0.0240 U	0.0360 U	0.0490 U
SED-F-3-0-0.5	'0-0.5	10/4/2006	*16.4*	0.3		*3.0*	3.2	9.6 JN	0.0200 U	0.0200 U	0.0300 U	0.0400 U
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	*11.7*	0.1 J		*1.0*	2.6	21.0 JN	0.0230 U	0.0230 U	0.0340 U	0.0460 U
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.3 J	0.1 UJ		0.1 J	0.0 UJ		0.0360 UJ	0.0360 UJ	0.0540 UJ	0.0720 UJ
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.2 J	0.1 UJ		0.0 UJ	0.0 UJ		0.0340 UJ	0.0340 UJ	0.0500 UJ	0.0670 UJ
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.2 J	0.1 UJ		0.0 UJ	0.0 UJ		0.0300 UJ	0.0300 UJ	0.0450 UJ	0.0610 UJ

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Fluoranthene mg/kg	Fluorene mg/kg	Hexachloro-benzene mg/kg	Hexachloro-butadiene mg/kg	Hexachloro-cyclopentadiene mg/kg	Hexachloro-ethane mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Isophorone mg/kg	Naphthalene mg/kg	N-Hexadecanoic Acid mg/kg
Sediment ERL			0.6	0.019							0.16	
Sediment ERM			0.51	0.54							2.1	
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	2.6	0.1 U	0.0910 U	0.0910 U	0.9100 U	0.2300 U	0.2360	0.0910 U	0.1 U	
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	1.6	0.1 U	0.0930 U	0.4610	0.9300 U	0.2300 U	0.0782 J	0.0930 U	0.1 J	
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.4	0.1 J	0.1000 U	0.1020	1.0000 U	0.2500 U	0.1000 U	0.1000 U	0.1	
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	33.6	0.2 J	0.1800 U	0.1800 U	1.8000 U	0.4400 U	1.5300	0.1800 U	0.3	
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	1.1	0.1	0.0810 U	0.0810 U	0.8100 U	0.2000 U	0.0810 U	0.0810 U	0.1 U	
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	19.4	*4.9*	0.1000 U	0.1000 U	1.0000 U	0.2600 U	0.3180	0.1000 U	0.1	
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1	0.1 U	0.1100 U	0.1100 U	1.1000 U	0.2700 U	0.0501 J	0.1100 U	0.1 U	0.6700 JN
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.1 J	0.2 UJ	0.9630 J	0.1500 UJ	1.5000 UJ	0.3800 UJ	0.1500 UJ	0.1500 UJ	0.2 UJ	
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.2 UJ	0.2 UJ	0.2400 UJ	0.2400 UJ	2.4000 UJ	0.6000 UJ	0.2400 UJ	0.2400 UJ	0.2 UJ	
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1 J	0.1 UJ	0.1400 UJ	0.1400 UJ	1.4000 UJ	0.3600 UJ	0.0414 J	0.1400 UJ	0.1 UJ	
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0 J	0.1 U	0.1200 U	0.1200 U	1.2000 U	0.3400	0.1200 U	0.1200 U	0.1 U	
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.2 UJ	0.2 UJ	0.2400 UJ	0.2400 UJ	2.4000 UJ	0.5900 UJ	0.2400 UJ	0.2400 UJ	0.2 UJ	
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.2 UJ	0.2 UJ	0.1900 UJ	0.1900 UJ	1.9000 UJ	0.4800 UJ	0.1900 UJ	0.1900 UJ	0.2 UJ	
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.2 UJ	0.2 UJ	0.1700 UJ	0.1700 UJ	1.7000 UJ	0.4200 UJ	0.1700 UJ	0.1700 UJ	0.2 UJ	
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.4 UJ	0.4 UJ	0.3800 UJ	0.3800 UJ	3.8000 UJ	0.9400 UJ	0.3800 UJ	0.3800 UJ	0.4 UJ	
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.3 UJ	0.3 UJ	0.2700 UJ	0.2700 UJ	2.7000 UJ	0.6700 UJ	0.2700 UJ	0.2700 UJ	0.3 UJ	
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.3 UJ	0.3 UJ	0.3200 UJ	0.3200 UJ	3.2000 UJ	0.7900 UJ	0.3200 UJ	0.3200 UJ	0.3 UJ	
SED-7	'0-0.5	10/10/2006	4.1	0.1 J	0.0760 U	0.0870 U	0.0950 U	0.0660 U	0.4250	0.0650 U	0.1 U	
SED-8	'0-0.5	10/10/2006	0.5	0.0 U	0.0480 U	0.0550 U	0.0600 U	0.0420 U	0.1260 J	0.0420 U	0.0 U	
SED-9	'0-0.5	10/10/2006	4.1	0.3	0.0350 U	0.0678 J	0.0430 U	0.0300 U	0.5220	0.0300 U	0.0 J	
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.9	0.1 U	0.0920 U	0.1100 U	0.1200 U	0.0800 U	0.1190 J	0.0800 U	0.1 U	
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.1 J	0.0 U	0.0430 U	0.0490 U	0.0540 U	0.0370 U	0.0470 U	0.0370 U	0.0 U	
SED-A-2-0-0.5	'0-0.5	10/9/2006	9.5	0.5 J	0.2100 U	0.2400 U	0.2600 U	0.1800 U	1.6000	0.1800 U	0.2 J	
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.0 U	0.0 U	0.0420 U	0.0480 U	0.0520 U	0.0360 U	0.0460 U	0.0360 U	0.0 U	
SED-A-3-0-0.5	'0-0.5	10/9/2006	2.4	0.3 U	0.4300 U	0.4900 U	0.5300 U	0.3700 U	0.5670 J	0.3700 U	0.4 U	
SED-B-1-0-0.5	'0-0.5	10/6/2006	4.6	*0.6*	0.1200 J	0.0600 U	0.0660 U	0.0460 U	0.7690	0.0450 U	0.1 J	
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.0 J	0.0 U	0.0280 U	0.0320 U	0.0350 U	0.0240 U	0.0310 U	0.0240 U	0.0 U	
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.1	0.0 U	0.0250 U	0.0290 U	0.0310 U	0.0220 U	0.0270 U	0.0210 U	0.0 U	
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.2	0.0 U	0.0350 U	0.0410 U	0.0440 U	0.0310 U	0.0390 U	0.0310 U	0.0 U	
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.1 J	0.0 U	0.0330 U	0.0380 U	0.0410 U	0.0290 U	0.0360 U	0.0280 U	0.0 U	
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.3	0.0 U	0.0350 U	0.0400 U	0.0430 U	0.0300 U	0.1080 J	0.0300 U	0.0 U	

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Fluoranthene mg/kg	Fluorene mg/kg	Hexachloro-benzene mg/kg	Hexachloro-butadiene mg/kg	Hexachloro-cyclopentadiene mg/kg	Hexachloro-ethane mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Isophorone mg/kg	Naphthalene mg/kg	N-Hexadecanoic Acid mg/kg
SED-C-1-0-0.5	'0-0.5	10/6/2006	1.1	0.1 U	0.0710 U	0.0820 U	0.0890 U	0.0620 U	0.2490 J	0.0620 U	0.1 U	
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.2	0.0 U	1.4900	0.0630 U	0.0690 U	0.0480 U	0.0610 U	0.0470 U	0.1 U	
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.5	0.0 U	0.0560 U	0.0650 U	0.0700 U	0.0490 U	0.1270 J	0.0490 U	0.1 U	
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.0 U	0.0 U	0.0430 U	0.0500 U	0.0540 U	0.0380 U	0.0480 U	0.0370 U	0.0 U	
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.7	0.0 U	0.0550 U	0.0630 U	0.0690 U	0.0480 U	0.2460	0.0480 U	0.1 U	3.7000 JN
SED-D-1-0-0.5	'0-0.5	10/5/2006	*0.5 J*	0.3 UJ	0.3800 UJ	0.4400 UJ	0.4800 U	0.3300 UJ	0.4200 UJ	0.3300 UJ	0.4 UJ	
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.4 J	0.0 UJ	0.0520 UJ	0.0590 UJ	0.0650 U	0.0450 UJ	0.1680 J	0.0450 UJ	0.1 UJ	
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.0 UJ	0.0 UJ	0.0630 UJ	0.0720 UJ	0.0780 U	0.0550 UJ	0.2420 J	0.0540 UJ	0.1 UJ	
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.9 J	0.2 UJ	0.2600 UJ	0.3000 UJ	0.3300 U	0.2300 UJ	0.2900 UJ	0.2300 UJ	0.3 UJ	
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.9 J	0.1 U	0.1800 U	0.2100 U	0.2300 U	0.1600 U	0.2000 U	0.1600 U	0.2 U	
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.2 J	0.1 UJ	0.0720 UJ	0.0830 UJ	0.0900 U	0.0630 UJ	0.0790 UJ	0.0620 UJ	0.1 UJ	
SED-D-3-0-0.5	'0-0.5	10/5/2006	1.1 J	0.4 UJ	0.5800 UJ	0.6600 UJ	0.7200 U	0.5000 UJ	0.6400 UJ	0.5000 UJ	0.6 UJ	
SED-DC-1	'0-0.5	9/20/2001	2.0 J	0.8 UJ	10.2000 J	0.7800 UJ	7.8000 UJ	1.9000 UJ	1.3200 J	0.7800 UJ	0.8 UJ	
SED-DC-2	'0-0.5	9/20/2001	2.9	0.6 U	0.3040 J	0.6100 U	6.1000 U	1.5000 U	0.4150 J	0.6100 U	0.6 U	
SED-DC-3	'0-0.5	9/20/2001	*0.6 J*	0.2 J	164.0000 J	0.2240 J	2.4000 UJ	0.6000 UJ	0.1070 J	0.2400 UJ	0.2 J	
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.3 J	0.1 UJ	0.0960 UJ	0.1100 UJ	0.1200 U	0.0840 UJ	0.1100 UJ	0.0830 UJ	0.1 UJ	1.0000 JN
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.5 J	0.0 UJ	0.0400 UJ	0.0460 UJ	0.0500 U	0.0350 UJ	0.0640 J	0.0340 UJ	0.0 UJ	
SED-E-2-0-0.5	'0-0.5	10/5/2006	1.7 J	0.0 J	0.0490 UJ	0.0560 UJ	0.0610 U	0.0420 UJ	0.1750 J	0.0420 UJ	0.1 J	
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.0 J	0.0 UJ	0.0450 UJ	0.0520 UJ	0.0570 U	0.0390 UJ	0.0500 UJ	0.0390 UJ	0.0 UJ	
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.0 UJ	0.0 UJ	0.0440 UJ	0.0510 UJ	0.0550 U	0.0380 UJ	0.0490 UJ	0.0380 UJ	0.0 UJ	
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.8 J	0.1 UJ	0.0990 UJ	0.1100 UJ	0.1200 U	0.0860 UJ	0.1500 J	0.0860 UJ	0.1 UJ	
SED-F-1-0-0.5	'0-0.5	10/4/2006	5.5	*1.2*	0.0693 J	0.0390 U	0.0420 U	0.0300 U	2.1700	0.0290 U	0.2	
SED-F-2-0-0.5	'0-0.5	10/4/2006	3.2	0.3	0.3410	0.0748 J	0.0410 U	0.0290 U	0.5850	0.0280 U	0.1 J	
SED-F-3-0-0.5	'0-0.5	10/4/2006	37.1	*4.7*	0.0270 U	0.0310 U	0.0340 U	0.0240 U	4.3700	0.0230 U	*2.6*	
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	22.9	*3.2*	0.0310 U	0.0360 U	0.0390 U	0.0270 U	3.1500	0.0270 U	1.9	
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.4 J	0.0 UJ	0.0490 UJ	0.0560 UJ	0.0610 UJ	0.0420 UJ	0.1470 J	0.0420 UJ	0.0 UJ	
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.2 J	0.0 UJ	0.0450 UJ	0.0520 UJ	0.0560 UJ	0.0390 UJ	0.0865 J	0.0390 UJ	0.0 UJ	
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.4 J	0.0 UJ	0.0410 UJ	0.0470 UJ	0.0510 UJ	0.0360 UJ	0.1120 J	0.0350 UJ	0.0 UJ	

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Nitrobenzene	N-Nitroso-Di-N-Propylamine	N-Nitro-sodiphenylamine	Penta-chlorophenol	Phenanthrene	Phenol, 2,4-Bis(1,1-Dimethylpropyl)-	Phenol, Nonyl-	Phenol	Pyrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL							0.24				0.665
Sediment ERM							1.5				2.6
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001	0.0910 U	0.0910 U	0.230 U	0.910 U	0.145	0.950 JN	1.80 JN	0.230 U	1.47
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0930 U	0.0930 U	0.230 U	0.930 U	0.0930 U			0.230 U	0.755
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001	0.1000 U	0.1000 U	0.250 U	1.00 U	0.378	1.40 JN		0.250 U	0.189
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1800 U	0.1800 U	0.440 U	1.80 U	0.697	1.80 JN		0.440 U	*16.3*
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001	0.0810 U	0.0810 U	0.200 U	0.810 U	0.454		0.740 JN	0.200 U	0.488
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001	0.1000 U	0.1000 U	0.260 U	1.00 U	*24.6*			0.260 U	*10.9*
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1100 U	0.1100 U	0.270 U	1.10 U	0.0346 J	1.20 JN		0.270 U	0.122
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001	0.1500 UJ	0.1500 UJ	0.380 UJ	1.50 UJ	0.150 UJ			0.380 UJ	0.0443 J
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001	0.2400 UJ	0.2400 UJ	0.600 UJ	2.40 UJ	0.240 UJ			0.600 UJ	0.240 UJ
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001	0.1400 UJ	0.1400 UJ	0.360 UJ	1.40 UJ	0.140 UJ			0.360 UJ	0.139 J
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001	0.1200 U	0.1200 U	0.290 U	1.20 U	0.120 U		0.290 JN	0.290 U	0.0428 J
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	0.2400 UJ	0.2400 UJ	0.590 UJ	2.40 UJ	0.240 UJ			0.590 UJ	0.240 UJ
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001	0.1900 UJ	0.1900 UJ	0.480 UJ	1.90 UJ	0.190 UJ			0.480 UJ	0.190 UJ
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001	0.1700 UJ	0.1700 UJ	0.420 UJ	1.70 UJ	0.170 UJ			0.420 UJ	0.170 UJ
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001	0.3800 UJ	0.3800 UJ	0.940 UJ	3.80 UJ	0.380 UJ			0.940 UJ	0.380 UJ
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001	0.2700 UJ	0.2700 UJ	0.670 UJ	2.70 UJ	0.270 UJ			0.670 UJ	0.270 UJ
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001	0.3200 UJ	0.3200 UJ	0.790 UJ	3.20 UJ	0.320 UJ			0.790 UJ	0.320 UJ
SED-7	'0-0.5	10/10/2006	0.0920 U	0.0850 U	0.0540 U	0.150 U	1.12			0.160 U	2.07
SED-8	'0-0.5	10/10/2006	0.0590 U	0.0540 U	0.0350 U	0.0940 U	0.114 J			0.100 U	0.474
SED-9	'0-0.5	10/10/2006	0.0420 U	0.0390 U	0.0250 U	0.0680 U	*2.30*			0.0750 U	*3.46*
SED-A-1-0-0.5	'0-0.5	10/9/2006	0.1100 U	0.1000 U	0.0660 U	0.180 U	0.194 J			0.200 U	0.619
SED-A-2-0.5-1.0	'0.5-1	10/9/2006	0.0520 U	0.0480 U	0.0310 U	0.0840 U	0.0330 U			0.0930 U	0.0581 J
SED-A-2-0-0.5	'0-0.5	10/9/2006	0.2500 U	0.2300 U	0.150 U	0.400 U	*5.84*			0.450 U	*6.68*
SED-A-2-1.0-1.5	'1-1.5	10/9/2006	0.0510 U	0.0470 U	0.0300 U	0.0810 U	0.0320 U			0.0900 U	0.0250 U
SED-A-3-0-0.5	'0-0.5	10/9/2006	0.5200 U	0.4800 U	0.310 U	0.830 U	0.723 J			0.920 U	1.80
SED-B-1-0-0.5	'0-0.5	10/6/2006	0.0640 U	0.0590 U	0.0380 U	0.100 U	*3.33*			0.110 U	*4.74*
SED-B-2-0.5-1.0	'0.5-1	10/6/2006	0.0340 U	0.0310 U	0.0200 U	0.0540 U	0.0210 U			0.0600 U	0.0349 J
SED-B-2-0-0.5	'0-0.5	10/6/2006	0.0300 U	0.0280 U	0.0180 U	0.0490 U	0.0355 J			0.0540 U	0.130
SED-B-2-1.0-1.5	'1-1.5	10/6/2006	0.0430 U	0.0400 U	0.0250 U	0.0690 U	0.152			0.0760 U	0.174
SED-B-2-1.5-2.0	'1.5-2	10/6/2006	0.0400 U	0.0370 U	0.0240 U	0.0640 U	0.0594 J			0.0710 U	0.0885 J
SED-B-3-0-0.5	'0-0.5	10/6/2006	0.0420 U	0.0390 U	0.0250 U	0.0680 U	0.0982 J			0.0750 U	0.378

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Nitrobenzene	N-Nitroso-Di-N-Propylamine	N-Nitro-sodiphenylamine	Penta-chlorophenol	Phenanthrene	Phenol, 2,4-Bis(1,1-Dimethylpropyl)-	Phenol, Nonyl-	Phenol	Pyrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SED-C-1-0-0.5	'0-0.5	10/6/2006	0.0860 U	0.0800 U	0.0510 U	0.140 U	0.304			0.150 U	0.950
SED-C-2-0.5-1.0	'0.5-1	10/6/2006	0.0670 U	0.0610 U	0.0390 U	0.110 U	0.0833 J			0.120 U	0.151 J
SED-C-2-0-0.5	'0-0.5	10/6/2006	0.0680 U	0.0630 U	0.0400 U	0.110 U	0.197 J			0.120 U	0.562
SED-C-2-1.0-1.5	'1-1.5	10/6/2006	0.0530 U	0.0490 U	0.0310 U	0.0850 U	0.0330 U			0.0940 U	0.0260 U
SED-C-3-0-0.5	'0-0.5	10/6/2006	0.0670 U	0.0620 U	0.0400 U	0.110 U	0.260			0.120 U	1.24
SED-D-1-0-0.5	'0-0.5	10/5/2006	0.4700 UJ	0.4300 UJ	0.280 UJ	0.750 UJ	0.290 UJ			0.830 UJ	0.442 J
SED-D-2-0.5-1.0	'0.5-1	10/5/2006	0.0630 UJ	0.0580 UJ	0.0370 UJ	0.100 UJ	0.0809 J			0.110 UJ	0.434 J
SED-D-2-0-0.5	'0-0.5	10/5/2006	0.0760 UJ	0.0700 UJ	0.0450 UJ	0.120 UJ	0.136 J			0.140 UJ	0.911 J
SED-D-2-1.0-1.5	'1-1.5	10/5/2006	0.3200 UJ	0.3000 UJ	0.190 UJ	0.520 UJ	0.200 UJ			0.570 UJ	0.592 J
SED-D-2-1.5-2.0	'1.5-2	10/5/2006	0.2200 U	0.2000 U	0.130 U	0.350 U	0.155 J			0.390 U	0.501 J
SED-D-2-2.0-2.5	'2-2.5	10/5/2006	0.0870 UJ	0.0800 UJ	0.0520 UJ	0.140 UJ	0.0550 UJ			0.160 UJ	0.130 J
SED-D-3-0-0.5	'0-0.5	10/5/2006	0.7000 UJ	0.6400 UJ	0.410 UJ	1.10 UJ	0.440 UJ			1.20 UJ	0.762 J
SED-DC-1	'0-0.5	9/20/2001	0.7800 UJ	0.7800 UJ	1.90 UJ	2.02 J	0.748 J			1.90 UJ	1.84 J
SED-DC-2	'0-0.5	9/20/2001	0.6100 U	0.6100 U	1.50 U	6.10 U	1.47			1.50 U	2.16
SED-DC-3	'0-0.5	9/20/2001	0.2400 UJ	0.2400 UJ	0.600 UJ	1.53 J	0.750 J			0.600 UJ	0.511 J
SED-E-1-0-0.5	'0-0.5	10/3/2006	0.1200 UJ	0.1100 UJ	0.0690 UJ	0.190 UJ	0.0898 J			0.210 UJ	0.297 J
SED-E-2-0.5-1.0	'0.5-1	10/5/2006	0.0480 UJ	0.0450 UJ	0.0290 UJ	0.0780 UJ	0.0491 J			0.0860 UJ	0.379 J
SED-E-2-0-0.5	'0-0.5	10/5/2006	0.0590 UJ	0.0540 UJ	0.0350 UJ	0.0950 UJ	0.425 J			0.110 UJ	1.60 J
SED-E-2-1.0-1.5	'1-1.5	10/5/2006	0.0550 UJ	0.0510 UJ	0.0320 UJ	0.0880 UJ	0.0350 UJ			0.0980 UJ	0.0270 UJ
SED-E-2-1.5-2.0	'1.5-2	10/5/2006	0.0540 UJ	0.0490 UJ	0.0320 UJ	0.0860 UJ	0.0340 UJ			0.0950 UJ	0.0260 UJ
SED-E-3-0-0.5	'0-0.5	10/3/2006	0.1200 UJ	0.1100 UJ	0.0710 UJ	0.190 UJ	0.227 J			0.210 UJ	0.839 J
SED-F-1-0-0.5	'0-0.5	10/4/2006	0.0410 U	0.0380 U	0.0240 U	0.0660 U	*5.31*			0.0730 U	*10.2*
SED-F-2-0-0.5	'0-0.5	10/4/2006	0.0400 U	0.0370 U	0.0240 U	0.0640 U	*2.85*			0.0710 U	*4.82*
SED-F-3-0-0.5	'0-0.5	10/4/2006	0.0330 U	0.0300 U	0.0200 U	0.0530 U	*37.0*			0.132 J	*43.5*
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006	0.0380 U	0.0350 U	0.0220 U	0.0610 U	*24.5*			0.0670 U	*21.9*
SED-G-1-0-0.5	'0-0.5	10/2/2006	0.0590 UJ	0.0540 UJ	0.0350 UJ	0.0950 UJ	0.122 J			0.100 UJ	0.554 J
SED-G-2-0-0.5	'0-0.5	10/2/2006	0.0550 UJ	0.0500 UJ	0.0320 UJ	0.0880 UJ	0.0948 J			0.0970 UJ	0.294 J
SED-G-3-0-0.5	'0-0.5	10/2/2006	0.0500 UJ	0.0460 UJ	0.0290 UJ	0.0800 UJ	0.111 J			0.0880 UJ	0.393 J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Stigmasterol mg/kg	Sulfur, Mol. (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Thiabendazole mg/kg	Vitamin E mg/kg
Sediment ERL								
Sediment ERM								
SED-1 (0.0-0.5FT)	'0-0.5	8/22/2001						
SED-1 (0.5-1.0FT)	'0.5-1	8/22/2001						
SED-1 (1.0-1.5FT)	'1-1.5	8/22/2001						
SED-2 (0.0-0.5FT)	'0-0.5	8/22/2001						
SED-2 (0.5-1.0FT)	'0.5-1	8/22/2001				2.10 JN		
SED-2 (1.0-1.5FT)	'1-1.5	8/22/2001						
SED-3 (0.0-0.5FT)	'0-0.5	8/22/2001						
SED-3 (0.5-1.0FT)	'0.5-1	8/22/2001						
SED-3 (1.0-1.5FT)	'1-1.5	8/22/2001						
SED-4 (0.0-0.5FT)	'0-0.5	8/22/2001						
SED-4 (0.5-1.0FT)	'0.5-1	8/22/2001						
SED-5 (0.0-0.5FT)	'0-0.5	8/22/2001	1.40 JN					
SED-5 (0.5-1.0FT)	'0.5-1	8/22/2001						0.510 JN
SED-5 (1.0-1.5FT)	'1-1.5	8/22/2001						
SED-6 (0.0-0.5FT)	'0-0.5	11/20/2001					1.10 JN	
SED-6 (0.5-1.0FT)	'0.5-1	11/20/2001						
SED-6 (1.0-1.5FT)	'1-1.5	11/20/2001						
SED-7	'0-0.5	10/10/2006		8.50 J				
SED-8	'0-0.5	10/10/2006		5.90 J				
SED-9	'0-0.5	10/10/2006		2.70 J				
SED-A-1-0-0.5	'0-0.5	10/9/2006		5.60 J				
SED-A-2-0.5-1.0	'0.5-1	10/9/2006						
SED-A-2-0-0.5	'0-0.5	10/9/2006						
SED-A-2-1.0-1.5	'1-1.5	10/9/2006						
SED-A-3-0-0.5	'0-0.5	10/9/2006		11.0 J				
SED-B-1-0-0.5	'0-0.5	10/6/2006						
SED-B-2-0.5-1.0	'0.5-1	10/6/2006						
SED-B-2-0-0.5	'0-0.5	10/6/2006						
SED-B-2-1.0-1.5	'1-1.5	10/6/2006						
SED-B-2-1.5-2.0	'1.5-2	10/6/2006						
SED-B-3-0-0.5	'0-0.5	10/6/2006		8.60 JN				

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Stigmasterol mg/kg	Sulfur, Mol. (s8) mg/kg	Sulfur mg/kg	Taraxerol mg/kg	Thiabendazole mg/kg	Vitamin E mg/kg
SED-C-1-0-0.5	'0-0.5	10/6/2006		8.30 JN				
SED-C-2-0.5-1.0	'0.5-1	10/6/2006		4.20 JN				
SED-C-2-0-0.5	'0-0.5	10/6/2006		3.60 JN				
SED-C-2-1.0-1.5	'1-1.5	10/6/2006		2.20 J				
SED-C-3-0-0.5	'0-0.5	10/6/2006						
SED-D-1-0-0.5	'0-0.5	10/5/2006		7.50 J				
SED-D-2-0.5-1.0	'0.5-1	10/5/2006						
SED-D-2-0-0.5	'0-0.5	10/5/2006						
SED-D-2-1.0-1.5	'1-1.5	10/5/2006		8.30 J				
SED-D-2-1.5-2.0	'1.5-2	10/5/2006		11.0 J				
SED-D-2-2.0-2.5	'2-2.5	10/5/2006		7.00 J				
SED-D-3-0-0.5	'0-0.5	10/5/2006						
SED-DC-1	'0-0.5	9/20/2001						
SED-DC-2	'0-0.5	9/20/2001						
SED-DC-3	'0-0.5	9/20/2001						
SED-E-1-0-0.5	'0-0.5	10/3/2006			5.90 JN			
SED-E-2-0.5-1.0	'0.5-1	10/5/2006						
SED-E-2-0-0.5	'0-0.5	10/5/2006						
SED-E-2-1.0-1.5	'1-1.5	10/5/2006						
SED-E-2-1.5-2.0	'1.5-2	10/5/2006		0.330 J				
SED-E-3-0-0.5	'0-0.5	10/3/2006						
SED-F-1-0-0.5	'0-0.5	10/4/2006						
SED-F-2-0-0.5	'0-0.5	10/4/2006						
SED-F-3-0-0.5	'0-0.5	10/4/2006						
SED-F-3-0-0.5-DUP	'0-0.5	10/4/2006						
SED-G-1-0-0.5	'0-0.5	10/2/2006		5.40 JN	0.830 J			
SED-G-2-0-0.5	'0-0.5	10/2/2006			4.70 JN			
SED-G-3-0-0.5	'0-0.5	10/2/2006			1.10 JN			

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Alcohols	N		0.00590	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Carbon Dioxide	N		11.0	JB
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.80	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		9.40	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		15.0	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		17.0	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	1,1'-Biphenyl,Heptachloro(PCB)	N		120.	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Benzothiophene	N		3.90	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		4.60	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	1,1'-Biphenyl,Octachloro-(PCB)	N		2.50	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		4.10	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		3.50	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	System Artifact	N		2.00	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		42.0	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		8.60	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	1,1'-Biphenyl, '-Hexachloro(PCB)	N		6.70	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		5.80	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		4.50	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		3.80	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		1.70	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		5.10	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		7.70	JB
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		3.90	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		15.0	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		5.20	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Isomer Of C20H12	N		2.20	J
SED-DC-1	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		11.0	J
SED-DC-2	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-DC-2	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Alkane	N		0.0130	J
SED-DC-2	ACTD	'0-0.5		9/20/2001	SE	SW8260B	2-Pentanone, 4-Hydroxy-4-Methyl-	N		7.20	JB
SED-DC-2	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		1.60	J
SED-DC-2	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Anthracene Methyl	N		1.80	J
SED-DC-2	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		1.90	J
SED-DC-2	ACTD	'0-0.5		9/20/2001	SE	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		4.50	JB
SED-DC-2	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		3.10	J
SED-DC-2	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Isomer Of C20H12	N		2.40	J
SED-DC-2	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-DC-2	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		2.20	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Trichlorobenzene	N		0.0400	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Alkane	N		0.0620	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Alkane	N		0.0410	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Alkane	N		0.120	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Alkane	N		0.150	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Alkane	N		0.0390	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Alkane	N		0.0810	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Carbon Dioxide	N		27.0	JB
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Alkane	N		0.0800	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8260B	Alkane	N		0.0670	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	2-Pentanone, 4-Hydroxy-4-Methyl-	N		9.10	JB
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		7.80	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		2.10	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		2.50	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		1.70	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		2.20	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		5.50	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		5.30	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		19.0	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		2.80	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		1.40	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		1.90	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		3.30	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		8.20	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		3.60	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		4.50	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		1.60	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Benzene, -Trichloro-	N		2.40	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		2.70	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Unknown	N		2.30	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		6.60	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		2.40	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		1.70	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	9,10-Anthracenedione Diamino	N		1.40	J
SED-DC-3	ACTD	'0-0.5		9/20/2001	SE	SW8270C	Alkane	N		1.70	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Carbon Dioxide	N		12.0	JNB
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.00810	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.00770	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.00950	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Trichlorobenzene	N		0.0110	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.00910	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		4.40	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		6.70	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		4.80	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Naphthalene, Dichloro-	N		1.50	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		4.10	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		1.30	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Naphthalene, Dichloro-	N		3.90	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Azulene, -Ethyl-Dimethyl-	N		0.720	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		0.490	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		4.40	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		3.10	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		1.10	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		0.680	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		6.30	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Phenol, Nonyl-	N		0.570	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.490	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		0.900	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Pyrene Methyl	N		0.600	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.20	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	9h-Fluorene, -Dimethyl-	N		0.540	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		2.20	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.560	J
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.60	JB
SED-1 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Carbon Dioxide	N		14.0	JB
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Trichlorobenzene	N		0.650	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Trichlorobenzene	N		0.330	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Trichlorobenzene	N		0.0800	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Alkane	N		0.0570	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.0230	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Cycloalkane/Alkene	N		0.0690	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Unknown	N		0.120	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0550	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0420	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	C7H3CL2F3	N		0.0710	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0220	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.100	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0260	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.0750	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.0210	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.0230	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0600	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0180	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0520	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0250	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.0300	JB
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0950	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.0200	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0540	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Naphthalenol	N		0.0190	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Phenol, 4-(tetramethylbutyl)-	N		0.120	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Naphthalenecarboxylic Acid	N		0.0190	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0220	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0590	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.0400	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.790	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0320	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0310	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.0430	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Phenol, (tetramethylbutyl)-	N		0.0350	J
SED-1 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.0200	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Alkane	N		0.0370	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Trichlorobenzene	N		0.130	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Carbon Dioxide	N		17.0	JB
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Alkane	N		0.0800	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Alkane	N		0.100	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Alkane	N		0.0340	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Alkane	N		0.0960	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Hexachlorobutadiene	N		0.0520	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Alkane	N		0.160	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Alkane	N		0.360	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		1.00	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		16.0	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		8.50	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		2.40	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		0.950	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		6.60	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Naphthalenol	N		25.0	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		9.90	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		4.80	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		2.70	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	9h-Fluorene, -Dimethyl-	N		6.90	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		2.20	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		3.10	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		0.910	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		1.40	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		0.920	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		1.20	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		10.0	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		1.10	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		10.0	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		1.60	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		2.00	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		13.0	J
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		1.90	JB

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-1 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		2.10	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.0160	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.0290	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.0360	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Unknown	N		0.0200	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Unknown	N		0.0170	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Carbon Dioxide	N		24.0	JB
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.0200	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Unknown	N		0.0220	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.0120	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.0160	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.0250	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		3.30	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		2.00	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		7.90	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		4.10	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		2.50	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		7.20	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		9.80	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		11.0	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.80	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Isomer Of C22H14	N		1.90	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Naphthalene, Dichloro-	N		5.60	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		4.50	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		6.60	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		2.80	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		2.70	JB
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		3.70	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Naphthalene, Dichloro-	N		7.00	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		6.90	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		2.60	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.80	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	1,1'-Biphenyl, Dimethyl-	N		3.50	J
SED-2 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	C20H12	N		2.10	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.0120	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Carbon Dioxide	N		15.0	JNB
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Methyl Naphthalene	N		0.0130	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Unknown	N		0.0130	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Alkane	N		0.0190	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Alkane	N		0.0200	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Alkane	N		0.0120	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Dimethyl Naphthalene	N		0.00800	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Alkane	N		0.0120	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Alkane	N		0.0110	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Cycloalkane/Alkene	N		3.60	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.400	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.00	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.300	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.00	JB
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.90	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown Acid	N		0.410	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.340	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	9h-Fluorene, -Dimethyl-	N		0.790	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.480	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.710	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.330	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkyl Benzene	N		1.50	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Phenol, Nonyl-	N		1.70	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.90	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Naphthalenecarboxylic Acid	N		1.20	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.420	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.500	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		1.90	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.620	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		1.90	J
SED-2 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Cycloalkane/Alkene	N		2.10	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.0310	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0440	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Benzene, Trichloro-	N		0.0220	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	1h-Indene-Dihydro-Methyl	N		0.0230	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Carbon Dioxide	N		22.0	JNB
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Methyl Naphthalene	N		0.0560	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Dimethyl Naphthalene	N		0.0160	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Benzofuran, Methyl-	N		0.0110	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		9.60	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Phenol Nonyl	N		3.00	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Benzenesulfonamide, -Methyl-	N		4.90	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Phenol, Nonyl-	N		5.10	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Phenol, Nonyl-	N		5.20	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Naphthalene, Dichloro-	N		5.80	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.90	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		1.70	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		1.20	JB
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		1.40	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.70	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		5.20	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Isomer Of C17H12	N		2.10	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		2.90	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Anthracene Chloro	N		1.90	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Anthracene Methyl	N		3.70	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		5.50	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		1.40	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		1.90	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Isomer Of C15H12	N		3.90	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Isomer Of C15H12	N		2.70	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.30	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		4.20	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		1.20	J
SED-2 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	9h-Fluorene Methyl	N		1.40	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Carbon Dioxide	N		13.0	JNB
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Unknown	N		0.0640	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		2.10	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.900	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		0.650	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.760	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.820	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.680	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.20	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.780	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.40	JB
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	C16H10S	N		1.10	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	C10H16	N		1.20	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	C14H8S2	N		1.10	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.60	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.10	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Isomer Of C17H12	N		2.50	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.930	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		1.90	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.00	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.670	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.780	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		0.630	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Benzenesulfonamide, -Methyl-	N		0.690	J
SED-3 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Phenol, -(-Tetramethylbutyl)-	N		0.790	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.90	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		2.20	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		13.0	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		7.20	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.80	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		9.70	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		2.00	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Phenol Nonyl	N		6.50	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		3.50	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		11.0	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.50	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		9.60	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		20.0	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		7.80	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		3.60	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Dimethyldibenzo(b,d)thiophene	N		1.60	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		2.60	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	System Artifact	N		13.0	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		2.30	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.60	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		1.60	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		3.50	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Anthracene Methyl	N		1.60	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.80	J
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	C4 Alkyl Benzene	N		1.90	JB
SED-3 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		4.70	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Carbon Dioxide	N		27.0	JNB
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Alkane	N		0.0590	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Cycloalkane/Alkene	N		0.0260	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		1.60	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	System Artifact	N		28.0	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		1.20	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		3.00	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	C4 Alkyl Benzene	N		2.90	JB
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		10.0	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		1.00	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		1.20	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		2.00	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		2.50	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Biphenyl	N		2.90	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		1.50	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		1.00	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		4.00	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		1.40	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		4.40	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	C11H14O2	N		1.30	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		23.0	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		2.10	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		2.70	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		0.860	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Phenol, Nonyl-	N		1.20	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		7.40	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		2.00	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		1.00	J
SED-3 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		1.20	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Alkane	N		0.0170	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		2.40	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		2.00	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.40	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		5.40	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.940	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		4.50	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		1.80	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.70	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		3.20	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		2.30	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		1.60	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		0.910	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Phenol, Nonyl-	N		24.0	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.90	JB
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.30	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		5.30	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		6.40	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Benzene, 1,2,4-Trichloro-	N		2.10	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		4.70	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.80	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.920	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		1.80	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		7.80	J
SED-4 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		3.50	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0460	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Methanone, -Naphthalenylphenyl-	N		0.0110	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Cycloalkane/Alkene	N		0.0200	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	1,1'-Biphenyl,Pentachloro(PCB)	N		0.0290	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Carbon Dioxide	N		24.0	JNB
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.0170	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Cycloalkane/Alkene	N		0.0110	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.360	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	System Artifact/Aldol-Condensation	N		0.320	JB
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.440	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	C4 Alkyl Benzene	N		1.30	JB
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.350	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	System Artifact	N		0.230	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Biphenyl	N		0.870	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Phenol, Nonyl-	N		0.480	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.400	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.290	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.290	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.710	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.430	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.600	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	C11H14O2	N		0.560	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.480	J
SED-4 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.260	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8260B	Carbon Dioxide	N		33.0	JB
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		0.970	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	System Artifact	N		1.20	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		7.00	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		2.70	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		3.20	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.10	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		6.50	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	C4 Alkyl Benzene	N		1.10	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.880	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		1.00	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		0.980	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		3.90	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		0.850	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		2.60	JB
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		6.80	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.880	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		0.990	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		3.90	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		2.20	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.30	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		2.40	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Unknown	N		1.30	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		1.40	J
SED-5 (0.0-0.5FT)	ACTD	'0-0.5		8/22/2001	SE	SW8270C	Alkane	N		1.20	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.50	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		2.70	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Hexachloro-(PCB)	N		0.540	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.640	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.440	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.610	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.430	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.760	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.70	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	1,1'-Biphenyl,Pentachloro(PCB)	N		0.730	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.520	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		1.80	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.410	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		2.00	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.410	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.550	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		2.40	JB
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		4.50	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Unknown	N		0.420	JB
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	System Artifact/Aldol-Condensation	N		0.460	JB
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		0.380	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Isomer Of C20H12	N		0.510	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	C7H3CL2F3	N		0.700	J
SED-5 (0.5-1.0FT)	ACTD	'0.5-1		8/22/2001	SE	SW8270C	Alkane	N		3.30	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8260B	Total TIC, Volatile	N			U
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Phosphoric Acid, Tris(-Methylphen	N		0.480	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		0.500	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		2.50	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		0.720	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		0.950	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		2.30	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		0.800	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	System Artifact/Aldol-Condensation	N		2.00	JB
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Alkane	N		1.30	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		0.600	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		1.10	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		0.440	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		0.920	J
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Total TIC, Semi-volatile	N			U
SED-5 (1.0-1.5FT)	ACTD	'1-1.5		8/22/2001	SE	SW8270C	Unknown	N		2.00	J
SED-6 (0.0-0.5FT)	ACTD	'0-0.5		11/20/2001	SE	SW8260B	Alkane	N		0.180	J
SED-6 (0.0-0.5FT)	ACTD	'0-0.5		11/20/2001	SE	SW8260B	System Artifact	N		0.220	JB
SED-6 (0.0-0.5FT)	ACTD	'0-0.5		11/20/2001	SE	SW8260B	Total TIC, Volatile	N			UJ
SED-6 (0.0-0.5FT)	ACTD	'0-0.5		11/20/2001	SE	SW8270C	Total TIC, Semi-volatile	N			UJ
SED-6 (0.0-0.5FT)	ACTD	'0-0.5		11/20/2001	SE	SW8270C	Unknown	N		0.750	JB
SED-6 (0.0-0.5FT)	ACTD	'0-0.5		11/20/2001	SE	SW8270C	Unknown	N		3.60	JB
SED-6 (0.0-0.5FT)	ACTD	'0-0.5		11/20/2001	SE	SW8270C	Unknown	N		1.80	JB
SED-6 (0.5-1.0FT)	ACTD	'0.5-1		11/20/2001	SE	SW8260B	Alkane	N		0.0690	J
SED-6 (0.5-1.0FT)	ACTD	'0.5-1		11/20/2001	SE	SW8260B	System Artifact	N		0.150	JB
SED-6 (0.5-1.0FT)	ACTD	'0.5-1		11/20/2001	SE	SW8260B	Total TIC, Volatile	N			UJ
SED-6 (0.5-1.0FT)	ACTD	'0.5-1		11/20/2001	SE	SW8270C	Total TIC, Semi-volatile	N			UJ
SED-6 (0.5-1.0FT)	ACTD	'0.5-1		11/20/2001	SE	SW8270C	System Artifact/Aldol-Condensation	N		1.70	JB
SED-6 (0.5-1.0FT)	ACTD	'0.5-1		11/20/2001	SE	SW8270C	Alkene	N		2.20	JB
SED-6 (1.0-1.5FT)	ACTD	'1-1.5		11/20/2001	SE	SW8260B	System Artifact	N		0.0860	J
SED-6 (1.0-1.5FT)	ACTD	'1-1.5		11/20/2001	SE	SW8260B	System Artifact	N		0.250	JB
SED-6 (1.0-1.5FT)	ACTD	'1-1.5		11/20/2001	SE	SW8260B	Total TIC, Volatile	N			UJ
SED-6 (1.0-1.5FT)	ACTD	'1-1.5		11/20/2001	SE	SW8270C	System Artifact/Aldol-Condensation	N		2.10	JB
SED-6 (1.0-1.5FT)	ACTD	'1-1.5		11/20/2001	SE	SW8270C	Total TIC, Semi-volatile	N		0.730	J
SED-6 (1.0-1.5FT)	ACTD	'1-1.5		11/20/2001	SE	SW8270C	Alkane	N		0.730	J
SED-6 (1.0-1.5FT)	ACTD	'1-1.5		11/20/2001	SE	SW8270C	System Artifact/Aldol-Condensation	N		2.60	JB
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.5)	N		1.60	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=25.01)	N		0.870	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl) (RT=13.77)	N		4.70	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Cycloalkane/Alkene (RT=14.74)	N		3.20	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=14.99)	N		3.80	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=18.4)	N		1.80	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl (RT=14.9)	N		2.40	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=26.64)	N		1.10	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=25.25)	N		2.50	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=15.4)	N		2.10	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.06)	N		1.90	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.22)	N		2.20	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown Acid (RT=17.44)	N		1.40	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.31)	N		1.40	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown PAH Substance (RT=23.55)	N		1.00	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=23.51)	N		1.50	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=19.79)	N		1.30	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=22.4)	N		0.980	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=14.8)	N		1.40	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=20.68)	N		0.920	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=24.53)	N		0.950	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=26)	N		1.50	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		420.	J
SED-7	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.11)	N		1.80	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=14.33)	N		0.410	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, -(tetramethylbutyl)- (RT=14.99)	N		1.50	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, Nonyl- (RT=14.91)	N		2.30	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.23)	N		1.90	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=23.57)	N		0.340	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=20.5)	N		0.340	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=19.78)	N		0.750	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=20.05)	N		0.340	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=18.75)	N		0.360	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, Nonyl- (RT=14.72)	N		0.960	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=22.86)	N		0.450	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.03)	N		1.30	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		270.	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, -(tetramethylbutyl) (RT=13.67)	N		0.930	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.33)	N		1.70	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.13)	N		1.70	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=14.82)	N		1.50	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.42)	N		0.870	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.39)	N		0.560	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.18)	N		0.530	J
SED-8	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Cycloalkane/Alkene (RT=14.66)	N		1.10	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.07)	N		1.10	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Cycloalkane/Alkene (RT=14.75)	N		1.20	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.31)	N		0.900	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		200.	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl) (RT=15.41)	N		1.20	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl (RT=14.9)	N		1.60	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, -Dimethylethyl)-Methyl (RT=15.12	N		1.30	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	11h-Benzofluorene (RT=19.8)	N		1.70	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=26.65)	N		0.670	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	11h-Benzofluorene (RT=19.92)	N		0.480	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=26.01)	N		0.860	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=20.05)	N		0.430	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=25.02)	N		0.430	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.22)	N		1.70	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=21.03)	N		0.670	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=24.54)	N		0.500	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=14.99)	N		2.40	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown PAH Substance (RT=23.55)	N		0.820	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=22.82)	N		0.770	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=18.91)	N		0.490	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=18.4)	N		1.30	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, Nonyl- (RT=14.81)	N		0.830	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl) (RT=13.77)	N		2.00	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Benzocarbazole (RT=21.79)	N		0.450	J
SED-9	ACTD	'0-0.5		10/10/2006	SE	SW8270C	Unknown (RT=15.51)	N		1.10	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Alkene (RT=13.79)	N		0.180	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Alkene (RT=11.03)	N		0.0710	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Alkene (RT=13.42)	N		0.0300	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Alkane (RT=13.02)	N		0.0260	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.27)	N		0.130	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Alkene (RT=13.93)	N		0.0580	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Alkene (RT=13.61)	N		0.230	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Cycloalkane/Alkene (RT=14.41)	N		0.0250	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown (RT=14.81)	N		1.60	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Nonylphenol (RT=15.48)	N		11.0	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Phenol, Nonyl- (RT=14.87)	N		7.80	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown Phthalate (RT=23.41)	N		3.90	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown (RT=14.47)	N		3.80	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.38)	N		6.70	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown Phthalate (RT=22.87)	N		1.10	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Benzene, -Dichloro- (RT=5.7)	N		2.00	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=14.96)	N		13.0	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown (RT=13.57)	N		1.10	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown Phthalate (RT=21.25)	N		1.40	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	System Artifact (RT=13.39)	N		1.20	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.06)	N		23.0	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown (RT=13.83)	N		24.0	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown Phthalate (RT=22.04)	N		2.00	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown Phthalate (RT=21.77)	N		2.70	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.33)	N		1.80	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Alkane (RT=12.01)	N		1.00	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown Phthalate (RT=22.36)	N		2.70	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		420.	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Nonyl Phenol (RT=15.28) TIC	N		11.0	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown (RT=15.53)	N		3.90	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown (RT=15.57)	N		8.60	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown (RT=24.82)	N		1.30	J
SED-A-1-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Benzene, -Trichloro- (RT=8.26)	N		3.50	J
SED-A-2-0.5-1.0	ACTD	'0.5-1		10/9/2006	SE	SW8260B	Alkane (RT=18.44)	N		0.0160	J
SED-A-2-0.5-1.0	ACTD	'0.5-1		10/9/2006	SE	SW8260B	Cycloalkane/Alkene (RT=19.84)	N		0.0120	J
SED-A-2-0.5-1.0	ACTD	'0.5-1		10/9/2006	SE	SW8260B	Unknown (RT=18.21)	N		0.0120	J
SED-A-2-0.5-1.0	ACTD	'0.5-1		10/9/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		310.	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Alkene (RT=11.03)	N		0.260	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.56)	N		0.260	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.22)	N		0.520	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.13)	N		0.460	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Alkane (RT=13.26)	N		0.300	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.04)	N		0.590	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Unknown (RT=20.3) TIC	N		0.240	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Alkane (RT=14.86)	N		0.610	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Cycloalkane/Alkene (RT=14.76)	N		0.410	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.86)	N		0.240	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Alkane (RT=11.31)	N		0.210	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Cycloalkane/Alkene (RT=11.62)	N		0.270	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Alkane (RT=13.12)	N		0.240	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.43)	N		0.240	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		160.	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown PAH Substance (RT=23.64)	N		2.40	J
SED-A-2-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown (RT=6.04)	N		3.70	J
SED-A-2-1.0-1.5	ACTD	'1-1.5		10/9/2006	SE	SW8270C	Unknown (RT=23.9)	N		0.440	J
SED-A-2-1.0-1.5	ACTD	'1-1.5		10/9/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		100.	J
SED-A-2-1.0-1.5	ACTD	'1-1.5		10/9/2006	SE	SW8270C	System Artifact (RT=11.89)	N		0.860	J
SED-A-2-1.0-1.5	ACTD	'1-1.5		10/9/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.490	J
SED-A-2-1.0-1.5	ACTD	'1-1.5		10/9/2006	SE	SW8270C	Alkane (RT=18.93)	N		0.300	J
SED-A-2-1.0-1.5	ACTD	'1-1.5		10/9/2006	SE	SW8270C	Alkane (RT=25.14)	N		2.00	J
SED-A-2-1.0-1.5	ACTD	'1-1.5		10/9/2006	SE	SW8270C	System Artifact (RT=4.27)	N		0.330	J
SED-A-2-1.0-1.5	ACTD	'1-1.5		10/9/2006	SE	SW8270C	Unknown (RT=24.15)	N		0.310	J
SED-A-2-1.0-1.5	ACTD	'1-1.5		10/9/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.370	J
SED-A-3-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=13.82)	N		3.60	J
SED-A-3-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.05)	N		3.90	J
SED-A-3-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		490.	J
SED-A-3-0-0.5	ACTD	'0-0.5		10/9/2006	SE	SW8270C	Unknown (RT=14.8)	N		4.40	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	System Artifact (RT=17.37)	N		0.0150	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.95)	N		5.70	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.84)	N		0.970	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20.89)	N		1.80	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=22.54)	N		4.50	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.52)	N		1.50	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.33)	N		2.80	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.08)	N		2.60	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20.81)	N		1.00	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20.66)	N		0.590	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact (RT=11.25)	N		0.750	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol Nonyl (RT=19.15)	N		3.70	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=22.05)	N		1.20	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19)	N		1.40	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.48)	N		1.10	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=23.02)	N		5.00	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=23.05)	N		3.50	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact (RT=4.29)	N		0.850	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=22.85)	N		31.0	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		100.	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=19.41)	N		1.70	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=21.71)	N		6.90	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=21.24)	N		1.10	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=21.1)	N		0.900	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact (RT=2.97)	N		0.600	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.56)	N		1.60	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.14)	N		2.90	J
SED-B-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.72)	N		0.970	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkane (RT=13.26)	N		0.0150	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkene (RT=11.03)	N		0.0130	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.75)	N		0.0240	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.56)	N		0.0170	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkene (RT=13.41)	N		0.00990	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.79)	N		0.0160	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.93)	N		0.00740	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkene (RT=13.61)	N		0.0430	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=19.49)	N		4.00	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=19.56)	N		2.50	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=19.08)	N		5.30	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=19.92)	N		0.370	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=19)	N		2.70	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=19.53)	N		3.50	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=22.15)	N		0.500	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=21.09)	N		0.680	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		60.0	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Alkane (RT=26.09)	N		0.360	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=18.32)	N		1.70	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=22.48)	N		0.410	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=21.69)	N		0.360	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=19.37)	N		1.50	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=19.42)	N		5.60	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=19.34)	N		5.30	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=20.77)	N		0.750	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=19.68)	N		0.790	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=19.17)	N		8.20	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=18.83)	N		0.580	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=20.94)	N		0.420	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=18.69)	N		1.70	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Benzophenone (RT=18.42)	N		0.490	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=20.7)	N		0.420	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=20.82)	N		0.470	J
SED-B-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=18.16)	N		7.30	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkene (RT=13.61)	N		0.0130	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.190	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Nonyl Phenol (RT=19.4)	N		1.30	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		52.0	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=18.99)	N		0.600	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.47)	N		0.990	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.32)	N		1.20	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.55)	N		0.690	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.52)	N		0.630	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.83)	N		0.240	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact (RT=11.9)	N		0.190	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.13)	N		2.20	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=21.69)	N		0.830	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=21.09)	N		0.280	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.31)	N		0.340	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=22.49)	N		0.410	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=22.83)	N		1.60	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.94)	N		1.30	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=22.99)	N		0.280	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.07)	N		1.40	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.36)	N		0.290	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=27.85)	N		0.180	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=19.14)	N		2.10	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.68)	N		0.490	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact (RT=4.22)	N		0.280	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20.77)	N		0.180	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Alkane (RT=27.1)	N		0.180	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=23.03)	N		1.20	J
SED-B-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown PAH Substance (RT=24.74)	N		0.210	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8260B	Alkene (RT=11.04)	N		0.0100	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.78)	N		0.0150	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.56)	N		0.0130	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8260B	Alkane (RT=13.75)	N		0.0160	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8260B	Alkene (RT=13.27)	N		0.0300	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8260B	Alkene (RT=13.61)	N		0.0300	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		59.0	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=19.64)	N		0.560	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=18.32)	N		0.880	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=21.69)	N		1.20	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=19.52)	N		2.60	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=23.06)	N		1.60	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=22.48)	N		0.580	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=19.41)	N		2.80	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=20.29)	N		1.10	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=22.8)	N		0.980	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=19.48)	N		3.70	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=18.99)	N		2.80	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=18.15)	N		6.30	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=21.09)	N		0.820	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=19.37)	N		0.760	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=20.56)	N		1.60	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=18.68)	N		1.40	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=20.77)	N		1.20	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=19.34)	N		4.50	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=20.06)	N		0.590	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=19.08)	N		4.90	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Benzophenone (RT=18.42)	N		0.600	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=19.56)	N		2.90	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=19.16)	N		7.70	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=20.2)	N		3.10	J
SED-B-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=20.94)	N		0.760	J
SED-B-2-1.5-2.0	ACTD	'1.5-2		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		68.0	J
SED-B-2-1.5-2.0	ACTD	'1.5-2		10/6/2006	SE	SW8270C	System Artifact (RT=11.91)	N		0.260	J
SED-B-2-1.5-2.0	ACTD	'1.5-2		10/6/2006	SE	SW8270C	Benzene, -Dichloro- (RT=8.94)	N		0.230	J
SED-B-2-1.5-2.0	ACTD	'1.5-2		10/6/2006	SE	SW8270C	Alkane (RT=18.99)	N		0.270	J
SED-B-2-1.5-2.0	ACTD	'1.5-2		10/6/2006	SE	SW8270C	System Artifact (RT=4.22)	N		0.250	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		240.	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20.47)	N		0.430	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=15.59)	N		0.340	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol,-(-Tetramethylbuty (RT=15.03)	N		0.530	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=26.19)	N		1.00	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact (RT=6.09)	N		0.870	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=15.63)	N		0.340	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20.16)	N		0.710	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact (RT=7.9)	N		0.450	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=14.88)	N		4.30	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=24.68)	N		0.790	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, -(tetramethylbuty (RT=13.9)	N		0.570	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Alkane (RT=23.55)	N		0.930	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Nonyl Phenol (RT=15.35) TIC	N		0.360	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Nonylphenol (RT=15.12)	N		0.740	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, -(-Dimethylpropyl)- (RT=15.2)	N		0.430	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Alkane (RT=23.07)	N		0.480	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown Acid (RT=17.58)	N		0.550	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=15.53)	N		0.640	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Alkane (RT=22.58)	N		0.320	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.53)	N		1.40	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=17.4)	N		0.400	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=26.86)	N		0.730	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.44)	N		0.330	J
SED-B-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.9)	N		0.570	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact (RT=3.05)	N		1.30	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20.47)	N		1.90	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=17.48)	N		1.40	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=17.4)	N		1.70	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=15.34)	N		1.40	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.87)	N		1.20	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=25.17)	N		1.30	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown Acid (RT=17.57)	N		1.40	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=17.72)	N		1.10	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Dinonylphenol (RT=20.16)	N		2.50	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=25.36)	N		1.70	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=24.67)	N		1.20	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=26.18)	N		3.30	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=17.12)	N		1.40	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.91)	N		1.40	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Nonylphenol (RT=15.19)	N		1.10	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=14.87)	N		7.00	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Alkane	N		4.80	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=26.33)	N		2.00	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=15.11)	N		2.20	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		580.	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=26.85)	N		3.40	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=15.02)	N		1.50	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.52)	N		5.90	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=13.89)	N		1.60	J
SED-C-1-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Alkane (RT=23.55)	N		1.20	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkane (RT=13.02)	N		0.0330	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=11.95)	N		0.0200	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkane (RT=12.3)	N		0.0450	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkene (RT=12.8)	N		0.0250	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkane (RT=13.75)	N		0.0290	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkane (RT=13.26)	N		0.0680	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkane (RT=13.12)	N		0.0200	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkene (RT=11.03)	N		0.0440	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Alkene (RT=13.41)	N		0.0260	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.61)	N		0.0880	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.78)	N		0.0520	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=25.36)	N		2.60	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=15.61)	N		3.70	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=26.86)	N		2.40	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=18.52)	N		3.50	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=15.48)	N		2.70	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=26.33)	N		3.00	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.45)	N		4.90	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.36)	N		9.10	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=19.97)	N		1.30	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=15.4) TIC	N		1.30	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Dinonylphenol (RT=19.8)	N		1.30	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=16.11)	N		1.20	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=15.04) TIC	N		13.0	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.14)	N		19.0	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=23.54)	N		1.60	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Alkane (RT=24.5)	N		1.30	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=14.94)	N		6.40	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=13.93)	N		65.0	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Phenol,-(-Trimethylpentyl)- (RT=14.55)	N		3.80	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown	N		3.40	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		330.	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Phenol, -Chloro--(-Dimethylpr (RT=14.11)	N		2.70	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=15.55) TIC	N		10.0	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Unknown (RT=26.64)	N		2.20	J
SED-C-2-0.5-1.0	ACTD	'0.5-1		10/6/2006	SE	SW8270C	Dinonylphenol (RT=20.16)	N		3.70	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkene (RT=12.8)	N		0.120	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkane (RT=12.3)	N		0.0620	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkane (RT=13.26)	N		0.280	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkene (RT=13.41)	N		0.130	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.61)	N		0.580	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=14.4)	N		0.0430	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Unknown (RT=13.93)	N		0.0650	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=14.11)	N		0.0450	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=14.04)	N		0.0490	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkane (RT=13.32)	N		0.0870	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkene (RT=11.03)	N		0.0520	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkane (RT=13.02)	N		0.170	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkane (RT=13.88)	N		0.0520	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkane (RT=13.12)	N		0.0840	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkane (RT=13.74)	N		0.160	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=14.95)	N		6.30	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=15.56)	N		11.0	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=14.11)	N		3.20	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		330.	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=14.56)	N		3.70	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	9,10-Anthracenedione, Amino-	N		7.20	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=26.33)	N		2.10	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=15.5)	N		2.50	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=26.19)	N		2.00	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.37)	N		9.20	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=15.62)	N		4.00	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=26.85)	N		2.80	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact (RT=3.7)	N		2.30	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.55)	N		1.90	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.91)	N		2.20	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20.16)	N		6.20	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=14.88)	N		1.80	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, -Tetramethylbutyl (RT=15.23)	N		10.0	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.15)	N		19.0	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20.06)	N		1.90	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol,--Tetramethylbuty (RT=13.94)	N		90.0	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20.47)	N		3.30	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, -(-tetramethylbuty (RT=15.04)	N		13.0	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=18.53)	N		4.00	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.46)	N		5.00	J
SED-C-2-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20)	N		4.40	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Alkane (RT=24.5)	N		0.470	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.320	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=25.72)	N		0.680	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=26.33)	N		1.70	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Alkane (RT=23.54)	N		1.00	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=22.27)	N		0.390	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Benzene, -Dichloro- (RT=6.22)	N		1.80	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=22.67)	N		0.320	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=27.07)	N		0.610	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Alkane (RT=14.93)	N		0.310	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		270.	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=21.57)	N		0.500	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Phenol, '-(-Methylethylidene)bis (RT=19.	N		0.820	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=25.35)	N		2.10	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=26.85)	N		1.60	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	System Artifact (RT=3.05)	N		0.680	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.390	J
SED-C-2-1.0-1.5	ACTD	'1-1.5		10/6/2006	SE	SW8270C	Unknown (RT=26.65)	N		2.50	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkane (RT=18.44)	N		0.0170	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.63)	N		0.0160	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	System Artifact (RT=17.36)	N		0.0380	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8260B	Alkane (RT=19.13)	N		0.0290	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.47)	N		1.30	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, -Tetramethylbutyl)- (RT=19.51)	N		2.00	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, -Tetramethylbutyl)- (RT=18.17)	N		3.00	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=23.3)	N		4.10	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Nonyl Phenol (RT=19.44)	N		2.00	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		170.	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=23.11)	N		7.20	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Cycloalkane/Alkene (RT=19)	N		7.70	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Phenol, -Tetramethylbutyl)- (RT=19.11)	N		2.80	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=20.85)	N		3.30	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.04)	N		1.50	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.55)	N		1.80	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=19.59)	N		1.40	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=22.55)	N		3.60	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=27.65)	N		2.00	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Nonyl Phenol (RT=19.18)	N		4.20	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=22.86)	N		20.0	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=22.95)	N		1.70	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=21.74)	N		7.30	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	System Artifact (RT=4.34)	N		1.50	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=21.14)	N		1.50	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=22.09)	N		1.50	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=22.9)	N		8.20	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=27.38)	N		2.30	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Unknown (RT=23.04)	N		9.10	J
SED-C-3-0-0.5	ACTD	'0-0.5		10/6/2006	SE	SW8270C	Nonyl Phenol (RT=19.37)	N		3.20	J
SED-D-1-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		130.	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=14.92)	N		0.430	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=15.11)	N		1.20	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=14.87)	N		0.410	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		140.	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=24.3)	N		0.830	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Dinonylphenol (RT=20.15)	N		1.30	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	System Artifact (RT=15.19)	N		0.510	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=25.17)	N		0.580	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=15.53)	N		0.520	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=19.55)	N		2.60	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=17.72)	N		0.370	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=20.46)	N		1.00	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=26.18)	N		2.10	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=15.02)	N		0.780	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=15.34)	N		0.750	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	5,12-Naphthacenedione, 1,2,3,4-Tet (RT=1	N		0.400	JN
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Phenol, -Dimethylethyl)-Methyl- (RT=15.2	N		0.410	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	System Artifact (RT=3.05)	N		0.440	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Alkane (RT=23.54)	N		0.450	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Phenol, -Bis(-Dimethylpropyl (RT=14.72)	N		0.370	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=15.44)	N		0.410	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=13.89)	N		1.30	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=19.87)	N		0.740	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Sulfur, Mol. (s8) (RT=18.57)	N		4.80	JN
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=19.9)	N		0.730	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.62)	N		0.510	J
SED-D-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=18.52)	N		2.50	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		60.0	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=14.87)	N		0.620	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=15.53)	N		0.690	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=26.18)	N		4.00	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=20.16)	N		1.50	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=15.63)	N		0.620	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=15.19)	N		0.660	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	5,12-Naphthacenedione, 1,2,3,4-Tet (RT=1	N		0.640	JN
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=15.02)	N		1.10	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=13.89)	N		1.30	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=20.47)	N		1.20	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown PAH Substance (RT=23.65)	N		0.840	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=15.11)	N		1.60	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=17.72)	N		0.640	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=20.64)	N		18.0	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=15.34)	N		1.10	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=19.9)	N		2.60	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=19.96)	N		0.740	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=25.17)	N		0.590	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=15.23)	N		0.850	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=19.8)	N		1.10	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=18.52)	N		3.20	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Sulfur (RT=18.57)	N		2.90	JN
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown PAH Substance (RT=18.71)	N		0.790	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=19.57)	N		1.10	J
SED-D-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=17.48)	N		0.860	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8260B	Alkane (RT=15.35)	N		0.0260	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8260B	Naphthalene Decahydro-Methyl (RT=18.2)	N		0.0140	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8260B	Alkane (RT=16.99)	N		0.0180	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8260B	Cycloalkane/Alkene (RT=19.84)	N		0.0130	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8260B	Alkane (RT=17.99)	N		0.0170	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8260B	Alkene (RT=11.03)	N		0.0170	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8260B	Alkane (RT=16.51)	N		0.0380	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8260B	Cycloalkane/Alkene (RT=17.21)	N		0.0200	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8260B	Alkane (RT=15.88)	N		0.0150	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8260B	Alkane (RT=16.16)	N		0.0250	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=13.82)	N		3.50	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=15.16)	N		2.60	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.04)	N		3.60	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=14.95)	N		2.20	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=15.37)	N		3.10	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=15.12)	N		2.40	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=26.27)	N		2.10	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=15.27)	N		2.60	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Phenol, '-(-Methylethylidene)bis- (RT=19	N		2.80	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		140.	J
SED-D-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Phenol, (-Tetramethylbutyl) (RT=15.46)	N		2.20	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8260B	Alkane (RT=15.35)	N		0.0140	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8260B	Alkane (RT=13.74)	N		0.0210	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.62)	N		0.0120	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8260B	Alkane (RT=16.16)	N		0.0120	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8260B	Alkane (RT=13.26)	N		0.0260	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8260B	Alkane (RT=16.5)	N		0.0180	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8260B	Alkene (RT=11.03)	N		0.0140	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=15.27)	N		5.30	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=15.37)	N		3.90	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=15.16)	N		3.40	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Phenol, (-Tetramethylbutyl) (RT=15.46)	N		2.70	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Nonylphenol (RT=15.12)	N		2.50	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.04)	N		6.40	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Phenol, '-(-Methylethylidene)bis- (RT=19	N		5.90	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=15.56)	N		2.20	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		45.0	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=22.91)	N		2.70	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=25.43)	N		3.80	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=23.6)	N		1.60	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=13.82)	N		10.0	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=14.03)	N		1.90	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=26.26)	N		1.90	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=14.86)	N		2.00	J
SED-D-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Phenol, -Tetramethylbutyl)- (RT=14.95)	N		4.90	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8260B	Alkane (RT=13.26)	N		0.0230	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8260B	Alkene (RT=13.62)	N		0.0240	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8260B	Alkane (RT=13.75)	N		0.0310	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=26.21)	N		1.10	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=15.04) TIC	N		3.00	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		220.	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=13.82)	N		4.10	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=17.65)	N		0.520	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Phenol, (-Tetramethylbutyl) (RT=15.46)	N		1.80	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=15.52)	N		0.860	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=14.47)	N		0.510	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=17.42)	N		0.570	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=15.16)	N		1.50	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.37)	N		2.00	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=15.12)	N		1.40	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=15.56)	N		1.10	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Phenol, -Tetramethylbutyl)- (RT=14.95)	N		2.20	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=15.27)	N		1.70	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=14.85)	N		0.880	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=15.92)	N		0.500	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Unknown (RT=25.38)	N		1.20	J
SED-D-2-2.0-2.5	ACTD	'2-2.5		10/5/2006	SE	SW8270C	Phenol, '-(-Methylethylidene)bis- (RT=19	N		1.30	J
SED-D-3-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=14.8)	N		5.00	J
SED-D-3-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		490.	J
SED-D-3-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=15.04) TIC	N		6.20	J
SED-D-3-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Nonylphenol (RT=15.12)	N		4.50	J
SED-D-3-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Sulfur (RT=18.46)	N		15.0	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=14.81)	N		0.760	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=26.48)	N		1.80	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Cycloalkane/Alkene (RT=14.75)	N		2.90	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=14.91)	N		1.20	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=26.71)	N		1.80	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=23.27)	N		6.10	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Nonyl Phenol (RT=15.23)	N		0.940	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	System Artifact (RT=2)	N		1.10	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		410.	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Phenol, Tetramethylbutyl (RT=14.44)	N		0.730	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Phenol, Tetramethylbutyl (RT=13.77)	N		6.30	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=20.05)	N		4.70	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Nonyl Phenol (RT=15.11)	N		1.10	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Nonyl Phenol (RT=15.32)	N		1.10	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=15.5)	N		0.820	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=15.07)	N		1.50	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=16.31)	N		0.850	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=20.34)	N		3.90	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=21.04)	N		1.30	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=19.19)	N		0.760	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=26.18)	N		1.50	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Nonyl Phenol (RT=15)	N		2.00	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=15.42)	N		1.20	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=24.58)	N		1.70	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	System Artifact (RT=8.39)	N		0.970	J
SED-E-1-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=19.86)	N		3.80	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	System Artifact (RT=3.05)	N		0.460	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=25.36)	N		0.740	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Sulfur, Mol. (s8) (RT=18.6)	N		5.80	JN
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=19.9)	N		1.50	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=17.49)	N		0.530	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=25.17)	N		0.540	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Phenol, -Tris(1,1-Dimethyleth (RT=17.72)	N		0.390	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=18.52)	N		2.50	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		240.	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=19.57)	N		0.400	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=15.11)	N		3.20	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Nonylphenol (RT=14.54)	N		0.420	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=14.1)	N		0.390	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=26.32)	N		0.450	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=26.18)	N		1.10	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=20.47)	N		0.540	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=13.89)	N		3.10	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=15.23)	N		1.80	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.44)	N		2.40	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=20.16)	N		0.650	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=15.53)	N		1.70	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=15.34)	N		2.70	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Nonylphenol (RT=14.93)	N		1.10	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=15.19)	N		2.00	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=15.59)	N		0.940	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Unknown (RT=15.63)	N		1.20	J
SED-E-2-0.5-1.0	ACTD	'0.5-1		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=15.02)	N		1.90	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Phenol, -Dimethylethyl)-Methyl- (RT=15.2	N		1.90	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=14.96)	N		1.60	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=15.01)	N		1.10	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=25.29)	N		0.840	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Sulfur, Mol. (s8) (RT=18.69)	N		12.0	JN
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=15.11)	N		1.90	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=20.23) TIC	N		2.10	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=18.61)	N		5.70	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.2)	N		3.00	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=20.53)	N		1.50	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=27.02)	N		1.20	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=17.82)	N		0.890	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=20.07)	N		1.20	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=20.05)	N		1.10	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=15.67)	N		0.850	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=19.99)	N		1.60	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Nonyl Phenol (RT=15.32)	N		1.40	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=26.33)	N		3.20	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.43)	N		2.30	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.56)	N		0.960	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		370.	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=13.98)	N		2.10	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.71)	N		1.30	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	System Artifact (RT=3.1)	N		1.00	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Phenol, -Tetramethylbuty (RT=15.61)	N		1.40	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Unknown (RT=19.95)	N		1.20	J
SED-E-2-0-0.5	ACTD	'0-0.5		10/5/2006	SE	SW8270C	Phenol, Nonyl- (RT=15.52)	N		1.30	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Alkane (RT=22.57)	N		0.320	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=21.67)	N		0.360	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=26.84)	N		1.40	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=25.35)	N		2.30	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Alkane (RT=23.54)	N		0.530	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=26.32)	N		1.00	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=15.23)	N		0.600	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	System Artifact (RT=6.09)	N		0.570	JN
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		260.	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Phenol, -(-Tetramethylbuty (RT=13.89)	N		3.10	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=14.1)	N		0.670	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Benzophenone (RT=14.21)	N		0.620	JN
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=14.55)	N		0.370	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Phenol, -Bis(-Dimethylpropyl (RT=14.72)	N		0.420	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=15.02)	N		1.30	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=15.19)	N		0.500	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=15.34)	N		0.850	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=15.44)	N		0.690	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=15.53)	N		0.510	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	System Artifact (RT=3.05)	N		0.490	J
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Sulfur, Mol. (s8) (RT=18.59)	N		8.50	JN
SED-E-2-1.0-1.5	ACTD	'1-1.5		10/5/2006	SE	SW8270C	Unknown (RT=15.11)	N		1.20	J
SED-E-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=25.73)	N		0.410	J
SED-E-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=26.84)	N		0.340	J
SED-E-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Phenol, '-(-Methylethylidene)bis- (RT=19	N		0.440	J
SED-E-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=26.31)	N		0.480	J
SED-E-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		310.	J
SED-E-2-1.5-2.0	ACTD	'1.5-2		10/5/2006	SE	SW8270C	Unknown (RT=25.34)	N		1.50	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8260B	System Artifact (RT=17.36)	N		0.0300	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Dinonylphenol (RT=22.84)	N		3.00	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Nonylphenol (RT=19.17)	N		2.30	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=23.08)	N		0.930	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=18.16)	N		1.50	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	System Artifact (RT=4.32)	N		1.30	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=4	N		0.770	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=23.02)	N		1.10	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		30.0	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=19.27)	N		1.40	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=22.88)	N		1.20	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Nonylphenol (RT=19.23)	N		1.80	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Phenol, Nonyl- (RT=19.35)	N		2.00	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=19.1)	N		1.60	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=20.84)	N		1.00	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=21.73)	N		2.50	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=27.9)	N		1.20	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=27.65)	N		0.930	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=18.99)	N		6.80	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=27.37)	N		2.30	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=19.55)	N		0.940	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	System Artifact (RT=11.96)	N		1.00	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	System Artifact (RT=11.31)	N		1.30	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=6	N		0.770	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=19.46)	N		0.820	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Phenol, Nonyl- (RT=19.03)	N		0.950	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Phenol, -(-Tetramethylbutyl)- (RT=19.5)	N		1.30	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Phenol, Nonyl- (RT=19.43)	N		1.20	J
SED-E-3-0-0.5	ACTD	'0-0.5		10/3/2006	SE	SW8270C	Unknown (RT=19.58)	N		0.820	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	System Artifact (RT=17.36)	N		0.0110	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=22.86)	N		4.00	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=21.75)	N		2.70	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=23.96)	N		0.710	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.19)	N		1.80	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.04)	N		0.700	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.45)	N		0.880	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Anthracene Methyl (RT=20.79)	N		0.910	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=20.94)	N		1.80	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.38)	N		1.20	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=22.2)	N		0.530	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Naphthalene, -Phenyl- (RT=21.28)	N		1.20	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=20.72)	N		0.590	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Benzo[b]naphthofuran (RT=22.53)	N		0.880	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=26.3)	N		2.10	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Anthracene Methyl (RT=20.86)	N		1.20	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=21.14)	N		0.570	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=23.09)	N		0.870	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Phenol, -Tetramethylbutyl)- (RT=18.17)	N		1.10	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	System Artifact (RT=4.34)	N		1.40	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19)	N		0.710	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Phenol, -Tetramethylbutyl)- (RT=19.12)	N		1.40	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Anthracene Methyl (RT=20.75)	N		0.660	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.56)	N		0.620	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=22.9)	N		2.60	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Phenol,-Tetramethylbutyl)- (RT=19.51)	N		0.560	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		13.0	J
SED-F-1-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=27.38)	N		1.60	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Alkane (RT=13.12)	N		0.0120	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Alkane (RT=13.88)	N		0.0100	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Trichlorobenzene (RT=18.39)	N		0.0230	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Alkene (RT=11.03)	N		0.0290	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Alkane (RT=13.74)	N		0.0400	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Alkane (RT=13.67)	N		0.0280	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Alkane (RT=15.26)	N		0.0120	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Unknown (RT=13.55)	N		0.0130	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Alkane (RT=13.02)	N		0.0150	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Alkane (RT=13.26)	N		0.0430	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Cycloalkane/Alkene (RT=10.58)	N		0.0360	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=21.75)	N		3.90	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=22.53)	N		2.80	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=23.04)	N		6.50	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=23.1)	N		4.50	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=22.9)	N		3.30	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.14)	N		11.0	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=22.1)	N		2.30	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=20.83)	N		3.10	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Nonylphenol (RT=19.23)	N		12.0	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=18.22)	N		16.0	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=21.15)	N		3.80	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=18.38)	N		4.10	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=20.65)	N		2.10	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=18.74)	N		4.30	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	N		62.0	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=20.03)	N		2.50	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.63)	N		4.00	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=20.87)	N		2.80	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.59)	N		5.90	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=20.93)	N		2.40	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Phenol, Nonyl- (RT=19.05)	N		5.20	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=18.89)	N		2.90	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.55)	N		6.20	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=21.01)	N		2.70	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.4)	N		8.60	J
SED-F-2-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Phenol, Nonyl- (RT=19.48)	N		5.00	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.13)	N		4.70	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.4)	N		4.20	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	9h-Fluorene Methyl (RT=19.31)	N		3.80	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=18.41)	N		3.00	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.46)	N		2.80	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Phenol, -Tetramethylbutyl)- (RT=18.18)	N		2.40	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.79)	N		1.90	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=21.78)	N		12.0	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=21.15)	N		2.10	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.05)	N		1.80	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=26.07)	N		1.70	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Phenylnaphthalene (RT=21.3)	N		5.10	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Anthracene Methyl (RT=21.01)	N		3.30	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=26.32)	N		5.30	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Anthracene Methyl (RT=20.89)	N		3.80	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	System Artifact (RT=5.32)	N		49.0	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Anthracene Methyl (RT=20.83)	N		7.60	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=20.73)	N		1.80	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Phenol Nonyl (RT=19.21)	N		5.60	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=20.46)	N		2.40	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Anthracene Methyl (RT=20.78)	N		6.70	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Naphthalene Dimethyl (RT=16)	N		1.70	J
SED-F-3-0-0.5	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Anthracene Methyl (RT=20.98)	N		9.50	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Cycloalkane/Alkene (RT=21.19)	FD	SED-F-3-0-0.5	0.00910	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Naphthalene Decahydro-Methyl (RT=18.21)	FD	SED-F-3-0-0.5	0.0140	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Cycloalkane/Alkene (RT=19.84)	FD	SED-F-3-0-0.5	0.0150	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Cycloalkane/Alkene (RT=19.15)	FD	SED-F-3-0-0.5	0.0160	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8260B	Cycloalkane/Alkene (RT=20.3)	FD	SED-F-3-0-0.5	0.0120	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=26.3)	FD	SED-F-3-0-0.5	6.40	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.46)	FD	SED-F-3-0-0.5	21.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.17)	FD	SED-F-3-0-0.5	19.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.36)	FD	SED-F-3-0-0.5	8.00	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.23)	FD	SED-F-3-0-0.5	10.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.57)	FD	SED-F-3-0-0.5	18.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.09)	FD	SED-F-3-0-0.5	18.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Alkane (RT=18.96)	FD	SED-F-3-0-0.5	8.20	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Dibenzofuran, -Methyl- (RT=18.37)	FD	SED-F-3-0-0.5	9.00	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	FD	SED-F-3-0-0.5	53.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.26)	FD	SED-F-3-0-0.5	12.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=21.73)	FD	SED-F-3-0-0.5	28.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=19.41)	FD	SED-F-3-0-0.5	10.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=21.87)	FD	SED-F-3-0-0.5	14.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=20.42)	FD	SED-F-3-0-0.5	12.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=21.59)	FD	SED-F-3-0-0.5	6.90	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=21.52)	FD	SED-F-3-0-0.5	6.70	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Phenylnaphthalene (RT=21.26)	FD	SED-F-3-0-0.5	25.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=21.11)	FD	SED-F-3-0-0.5	9.50	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=20.96)	FD	SED-F-3-0-0.5	20.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=20.84)	FD	SED-F-3-0-0.5	16.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=20.78)	FD	SED-F-3-0-0.5	39.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown PAH Substance (RT=20.73)	FD	SED-F-3-0-0.5	32.0	J
SED-F-3-0-0.5-DUP	ACTD	'0-0.5		10/4/2006	SE	SW8270C	Unknown (RT=20.93)	FD	SED-F-3-0-0.5	54.0	J
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8260B	System Artifact (RT=17.37)	N		0.0130	J
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		160.	J
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	System Artifact (RT=7.75)	N		0.420	J
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	Phenol, Nonyl- (RT=14.98)	N		0.350	J
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	Unknown (RT=15.39)	N		0.520	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Lab	Interval	(ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	Unknown (RT=17.24)	N		1.20	J
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		0.370	J
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	Unknown (RT=17.42)	N		0.920	J
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	Unknown (RT=20.12)	N		2.90	J
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	System Artifact (RT=25.48)	N		6.30	J
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=1	N		0.880	J
SED-G-1-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	Unknown (RT=25.01)	N		0.770	J
SED-G-2-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8260B	System Artifact (RT=17.36)	N		0.0150	J
SED-G-2-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	Unknown Acid (RT=17.42)	N		0.320	J
SED-G-2-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	Unknown (RT=20.12)	N		0.520	J
SED-G-2-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		130.	J
SED-G-2-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	System Artifact (RT=7.75)	N		0.390	J
SED-G-3-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	Unknown PAH Substance (RT=23.52)	N		0.370	J
SED-G-3-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	System Artifact (RT=23.81)	N		8.00	J
SED-G-3-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=1	N		1.40	J
SED-G-3-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		110.	J
SED-G-3-0-0.5	ACTD	'0-0.5		10/2/2006	SE	SW8270C	System Artifact (RT=4.44)	N		0.370	J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL					**8**			**1.2**		**81**		**34**
Sediment ERM					**70**			**9.6**		**370**		**270**
SED-ND-A1-0-0.5	0-0.5	07/26/11	8,600 J	15.00 UJ	*141.0 J*	468 J	1.500 UJ	3.70 UJ	4,350 J	**89.0 J**	37.0 UJ	**117.0 J**
SED-ND-B1-0.5-2	0.5-2	07/26/11	4,140	4.40	*113.*	954	0.330 U	**2.7**	810 U	**219.0**	8.1 U	**184.0**
SED-ND-B1-0-0.5	0-0.5	07/26/11	4,380 J	4.60 UJ	*76.5 J*	420 J	0.460 UJ	**1.50 J**	1,890 J	74.2 J	11.0 UJ	**73.50 J**
SED-ND-B2-0-0.5	0-0.5	07/26/11	9,510 J	9.90 UJ	*241 J*	1,380 J	0.99 UJ	**3.6 J**	3,570 J	**136.0 J**	25.0 UJ	**166.0 J**
SED-ND-C1-0-0.5	0-0.5	07/26/11	5,100	3.80 U	*104.*	884	0.800	**1.7**	2,360	75.7	9.5 U	**145.00**
SED-ND-C2-0-0.5	0-0.5	07/26/11	4,160	3.00 U	*147.*	1,010	0.340	**2.**	1,370	**120.0**	8. U	**142.0**
SED-SD-A1-0-0.5	0-0.5	07/26/11	22,900 J	8.40 UJ	**16.0 J**	84 UJ	1.000 J	2.1 UJ	3,390 J	78.1 J	21.0 UJ	**143.00 J**
SED-SD-B1-0.5-1.5	0.5-1.5	07/26/11	4,920	2.90 U	6.1	37	0.31	0.7 U	740 U	24.7	7.4 U	**47.0**
SED-SD-B1-0-0.5	0-0.5	07/26/11	12,600 J	2.00 UJ	**9.0 J**	32.0 J	0.64 J	0.74 J	1,670 J	38.1 J	6.2 J	**78.6 J**
SED-SD-B2-0-0.5	0-0.5	07/26/11	13,500 J	4.90 UJ	**11.4 J**	49 UJ	0.67 J	1. UJ	1,690 J	39.8 J	12.0 UJ	**73.4 J**
SED-SD-C1-0-0.5	0-0.5	07/26/11	6,020	2.00 U	4.6	32.	0.360	0.5 U	1,030	18.5	4.9 U	25.90
SED-SD-C2-0-0.5	0-0.5	07/26/11	8,180	2.80 UJ	6.8	41	0.43	0.70 U	1,090	26.9	7.0 U	**49.0 J**
DUP	0-0.5	07/26/11	7,010	2.90 U	6.4	41.	0.39	0.72 U	920	23.6	7.2 U	**37.9**

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL				**47**			**0.15**	**21**			**1**	
Sediment ERM				**218**			**0.71**	**52**			**3.7**	
SED-ND-A1-0-0.5	0-0.5	07/26/11	37,100.0 J	**91.9 J**	7,990 J	297.0 J	*37 J*	30. UJ	7,500.0 UJ	15. UJ	3.7 UJ	36,100.0 J
SED-ND-B1-0.5-2	0.5-2	07/26/11	16,400.	**95.7**	1,400	65.	*170*	16.	1,600.0 U	5.	**2.3**	3,360.0
SED-ND-B1-0-0.5	0-0.5	07/26/11	21,000. J	**54.1 J**	2,380 J	97.8 J	*80 J*	13. J	2,300.0 UJ	5. UJ	**1.4 J**	8,520.0 J
SED-ND-B2-0-0.5	0-0.5	07/26/11	40,900. J	**126.0 J**	5,530 J	241. J	*111 J*	**31. J**	5,000.0 UJ	10. UJ	**2.5 J**	19,100.0 J
SED-ND-C1-0-0.5	0-0.5	07/26/11	26,000.0	*242.0*	2,640	108.	*46*	*59.*	1,900.0 U	4.0	**1.2**	5,060.0
SED-ND-C2-0-0.5	0-0.5	07/26/11	15,500.	**106.0**	1,800	67.	*97*	**43.**	1,500.0 U	4.7	**1.3**	5,010.0
SED-SD-A1-0-0.5	0-0.5	07/26/11	32,800.0 J	**159.0 J**	9,810 J	254. J	*3 J*	**44.6 J**	4,470.0 J	8.4 UJ	**2.4 J**	25,000.0 J
SED-SD-B1-0.5-1.5	0.5-1.5	07/26/11	11,800.	**51.1**	1,520	51.	*2*	15.	1,500.0 U	3. U	**1.3**	2,980.0
SED-SD-B1-0-0.5	0-0.5	07/26/11	20,300.0 J	**85.9 J**	5,060 J	138.00 J	*1 J*	**24. J**	2,610.0 J	2.30 J	**1.0 J**	11,800.0 J
SED-SD-B2-0-0.5	0-0.5	07/26/11	22,800. J	**87.5 J**	4,870 J	130 J	*1 J*	**24. J**	2,730.0 J	5. UJ	1.2 UJ	11,500.0 J
SED-SD-C1-0-0.5	0-0.5	07/26/11	11,200.0	26.9	1,940	52.	**1**	10.	1,550.0	2. U	0.5 U	3,700.00
SED-SD-C2-0-0.5	0-0.5	07/26/11	14,600.0 J	**53.3**	2,820 J	82.6	**1 J**	16.	1,570.0	3. U	0.7 J	4,140.0 J
DUP	0-0.5	07/26/11	13,200.0	43.7	2,370	73.6	**1**	14.	1,400.0	2.90 U	0.7 UJ	3,340.0

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Thallium mg/kg	Vanadium mg/kg	Zinc mg/kg
Sediment ERL					**150**
Sediment ERM					**410**
SED-ND-A1-0-0.5	0-0.5	07/26/11	7.5 UJ	49 J	*691.00 J*
SED-ND-B1-0.5-2	0.5-2	07/26/11	1.6 U	20	**194.00**
SED-ND-B1-0-0.5	0-0.5	07/26/11	2.3 UJ	22. J	**268.00 J**
SED-ND-B2-0-0.5	0-0.5	07/26/11	5.0 UJ	54 J	*612.00 J*
SED-ND-C1-0-0.5	0-0.5	07/26/11	1.9 U	28.	*525.00*
SED-ND-C2-0-0.5	0-0.5	07/26/11	1.5 U	21.	**265.00**
SED-SD-A1-0-0.5	0-0.5	07/26/11	4.2 UJ	51. J	**409.00 J**
SED-SD-B1-0.5-1.5	0.5-1.5	07/26/11	1.5 U	23	74.30
SED-SD-B1-0-0.5	0-0.5	07/26/11	1.0 UJ	33 J	**199.00 J**
SED-SD-B2-0-0.5	0-0.5	07/26/11	2.5 UJ	35 J	**195.00 J**
SED-SD-C1-0-0.5	0-0.5	07/26/11	1.0 U	16	63.70
SED-SD-C2-0-0.5	0-0.5	07/26/11	1.4 U	21	119.00 J
DUP	0-0.5	07/26/11	1.4 U	20	89.30

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Endosulfan (Endosulfan I)	beta Endosulfan (Endosulfan II)	BHC, alpha	BHC, beta	BHC, delta
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL											
Sediment ERM											
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.00230 UJ	0.00270 UJ	0.00330 UJ	0.00230 UJ	0.00220 UJ	0.00300 UJ	0.00340 UJ	0.00320 UJ	0.00260 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.2440	0.0274	0.0110	0.0005 U	0.0005 U	0.0006 U	0.0007 U	0.0007 U	0.0005 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.01220 J	0.00470 J	0.00210 J	0.00070 UJ	0.00068 UJ	0.00093 UJ	0.00110 UJ	0.00099 UJ	0.00082 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0281 J	0.0101 J	0.0045 J	0.0014 UJ	0.0014 UJ	0.0018 UJ	0.0021 UJ	0.0020 UJ	0.0016 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.01200	0.00580 J	0.00310	0.00055 U	0.00053 U	0.00072 U	0.00082 U	0.00077 U	0.00064 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.02260 J	0.00420 J	0.00062 U	0.00043 U	0.00041 U	0.00056 U	0.00064 U	0.00060 U	0.00050 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0012 UJ	0.0014 UJ	0.0017 UJ	0.0012 UJ	0.0012 UJ	0.0016 UJ	0.0018 UJ	0.0017 UJ	0.0014 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.00180	0.00400 J	0.00270 J	0.00040 U	0.00039 U	0.00053 U	0.00060 U	0.00056 U	0.00047 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0067	0.0050 J	0.0013 UJ	0.0009 UJ	0.0008 UJ	0.0011 UJ	0.0013 UJ	0.0012 UJ	0.0010 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.00340 J	0.00280 J	0.00310 J	0.00074 UJ	0.00072 UJ	0.00098 UJ	0.00110 UJ	0.00100 UJ	0.00087 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.00200	0.00140 J	0.00066 U	0.00045 U	0.00044 U	0.00060 U	0.00068 U	0.00064 U	0.00053 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0064	0.0039 J	0.0105 J	0.0004 U	0.0004 U	0.0005 U	0.0006 U	0.0006 U	0.0005 U
SED-SD-C2-0-0.5-DUF	'0-0.5	7/26/2011	0.0078	0.0047	0.0038	0.0004 U	0.0004 U	0.0005 U	0.0006 U	0.0006 U	0.0005 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	BHC, gamma (Lindane)	Chlordane, alpha	Chlordane, beta	Dieldrin	Endosulfan sulfate	Endrin aldehyde	Endrin ketone	Endrin
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL										
Sediment ERM										
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.00210 UJ	0.00290 UJ	0.0023 UJ	0.00350 UJ	0.00410 UJ	0.00430 UJ	0.00290 UJ	0.0023 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.0004 U	0.0109	0.026	0.0007 U	0.0008 U	0.0009 U	0.0006 U	0.000 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.00064 UJ	0.00091 UJ	0.0007 UJ	0.00110 UJ	0.00130 UJ	0.00130 UJ	0.00091 UJ	0.0007 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0013 UJ	0.0018 UJ	0.0014 UJ	0.0022 UJ	0.0025 UJ	0.0027 UJ	0.0018 UJ	0.0014 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.00050 U	0.00072 U	0.0006 U	0.00085 U	0.00100 U	0.00100 U	0.00071 U	0.0006 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.00039 U	0.00055 U	0.0004 U	0.00066 U	0.00077 U	0.00081 U	0.00055 U	0.0004 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0011 UJ	0.0016 UJ	0.0012 UJ	0.0018 UJ	0.0022 UJ	0.0023 UJ	0.0015 UJ	0.0012 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.00037 U	0.00052 U	0.0004 U	0.00062 U	0.00073 U	0.00076 U	0.00052 U	0.0004 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0008 UJ	0.0011 UJ	0.0009 UJ	0.0013 UJ	0.0016 UJ	0.0016 UJ	0.0011 UJ	0.0009 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.00068 UJ	0.00097 UJ	0.0008 UJ	0.00120 UJ	0.00140 UJ	0.00140 UJ	0.00097 UJ	0.0008 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.00041 U	0.00059 U	0.0005 U	0.00070 U	0.00082 U	0.00086 U	0.00059 U	0.0005 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0004 U	0.0005 U	0.0004 U	0.0006 U	0.0007 U	0.0008 U	0.0005 U	0.0004 U
SED-SD-C2-0-0.5-DUF	'0-0.5	7/26/2011	0.0004 U	0.0005 U	0.0004 U	0.0006 U	0.0007 U	0.0008 U	0.0005 U	0.0004 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Heptachlor epoxide	Heptachlor	Methoxychlor	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL						
Sediment ERM						
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.0022 UJ	0.00280 UJ	0.0032 UJ	0.0570 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.0364	0.0006 U	0.0007 U	0.012 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.00069 UJ	0.00086 UJ	0.00099 UJ	0.0180 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0014 UJ	0.0017 UJ	0.0020 UJ	0.035 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.00054 U	0.00067 U	0.00078 U	0.0140 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.00042 U	0.00052 U	0.00060 U	0.0110 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0012 UJ	0.0015 UJ	0.0017 UJ	0.030 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.00040 U	0.00049 U	0.00520 J	0.010 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0009 UJ	0.0011 UJ	0.0012 UJ	0.022 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.00074 UJ	0.00092 UJ	0.00110 UJ	0.0190 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.00045 U	0.00055 U	0.00064 U	0.0110 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0004 U	0.0005 U	0.0006 U	0.010 U
SED-SD-C2-0-0.5-DUF	'0-0.5	7/26/2011	0.0004 U	0.0005 U	0.0006 U	0.010 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Aroclor 1016 mg/kg	Aroclor 1221 mg/kg	Aroclor 1232 mg/kg	Aroclor 1242 mg/kg	Aroclor 1248 mg/kg	Aroclor 1254 mg/kg	Aroclor 1260 mg/kg	Aroclor 1262 mg/kg	Aroclor 1268 mg/kg
Sediment ERM			**0.023**	**0.023**	**0.023**	**0.023**	**0.023**	**0.023**	**0.023**		
Sediment ERM			**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**		
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.0590 UJ	0.1400 UJ	0.1100 UJ	0.0720 UJ	0.0690 UJ	0.1100 UJ	0.0740 UJ	0.0720 UJ	0.0670 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.0120 U	0.0280 U	0.0240 U	0.0150 U	0.0140 U	0.0220 U	0.0150 U	0.0150 U	0.0140 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.0180 UJ	0.0420 UJ	0.0360 UJ	0.0220 UJ	0.0210 UJ	0.0330 UJ	0.0230 UJ	0.0220 UJ	0.0210 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.036 UJ	0.084 UJ	0.071 UJ	0.045 UJ	0.043 UJ	0.066 UJ	0.046 UJ	0.045 UJ	0.041 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.0140 U	0.0330 U	0.0280 U	0.0170 U	0.0170 U	0.0260 U	0.0180 U	0.0170 U	0.0160 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.0110 U	0.0260 U	0.0220 U	0.0140 U	0.0130 U	0.0200 U	0.0140 U	0.0140 U	0.0130 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0310 UJ	0.0720 UJ	0.0600 UJ	0.0380 UJ	0.0360 UJ	0.0560 UJ	0.0390 UJ	0.0380 UJ	0.0350 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0100 U	0.0240 U	0.0200 U	0.0130 U	0.0120 U	**0.0985**	0.0130 U	0.0130 U	0.0120 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0230 UJ	0.0530 UJ	0.0440 UJ	0.0280 UJ	0.0270 UJ	0.0410 UJ	0.0290 UJ	0.0280 UJ	0.0260 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0190 UJ	0.0450 UJ	0.0380 UJ	0.0240 UJ	0.0230 UJ	0.0350 UJ	0.0240 UJ	0.0240 UJ	0.0220 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0120 U	0.0270 U	0.0230 U	0.0140 U	0.0140 U	0.0210 U	0.0150 U	0.0140 U	0.0130 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0100 U	0.0240 U	0.0200 U	0.0130 U	0.0120 U	0.0180 U	0.0130 U	0.0130 U	0.0120 U
SED-SD-C2-0-0.5-DUP	'0-0.5	7/26/2011	0.0110 U	0.0240 U	0.0200 U	0.0130 U	0.0120 U	0.0190 U	0.0130 U	0.0130 U	0.0120 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,2,2-trifluoroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,3-Trichlorobenzene mg/kg	1,2,4-Trichlorobenzene mg/kg	chloropropane (DBCP) mg/kg
Sediment ERL											
Sediment ERM											
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.00330 UJ	0.00250 UJ	0.00980 UJ	0.00590 UJ	0.00300 UJ	0.0084 UJ	0.006 UJ	0.0047 UJ	0.02100 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.00035 U	0.00026 U	0.00100 U	0.00063 U	0.00032 U	0.0009 U	0.00064 U	0.0804	0.00220 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.00051 UJ	0.00038 UJ	0.00150 UJ	0.00092 UJ	0.00046 UJ	0.0013 UJ	0.00093 UJ	0.00073 UJ	0.00320 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0012 UJ	0.0009 UJ	0.0036 UJ	0.0021 UJ	0.0011 UJ	0.003 UJ	0.0022 UJ	0.0023 J	0.0075 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.00040 U	0.00030 U	0.00120 U	0.00072 U	0.00036 U	0.001 U	0.00073 U	0.00071 J	0.00250 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.00032 U	0.00024 U	0.00096 U	0.00058 U	0.00029 U	0.00082 U	0.00059 U	0.0014 J	0.00200 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0016 UJ	0.0012 UJ	0.0048 UJ	0.0029 UJ	0.0015 UJ	0.0041 UJ	0.003 UJ	0.0023 UJ	0.0100 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0003 U	0.0002 U	0.0009 U	0.0006 U	0.0003 U	0.00078 U	0.00056 U	0.00043 U	0.0019 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0007 UJ	0.0005 UJ	0.0021 UJ	0.0012 UJ	0.0006 UJ	0.0018 UJ	0.0013 UJ	0.0010 UJ	0.0043 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0006 UJ	0.0005 UJ	0.0019 UJ	0.0011 UJ	0.0006 UJ	0.0016 UJ	0.0011 UJ	0.00088 UJ	0.0039 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0003 U	0.0003 U	0.0010 U	0.0006 U	0.0003 U	0.00086 U	0.00061 U	0.0005 U	0.0021 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0003 U	0.0002 U	0.0009 U	0.0006 U	0.0003 U	0.00078 U	0.00055 U	0.00043 U	0.0019 U
SED-SD-C2-0-0.5-DUF	'0-0.5	7/26/2011	0.0003 U	0.0002 U	0.0009 U	0.0006 U	0.0003 U	0.0008 U	0.00057 U	0.0004 U	0.0020 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2-Dibromoethane (EDB) mg/kg	1,2-Dichlorobenzene mg/kg	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	Dimethylbenzene (o-xylene) mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	1,4-Dioxane mg/kg	2-Butanone (MEK) mg/kg
Sediment ERL											
Sediment ERM											
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.00330 UJ	0.004 J	0.0025 UJ	0.0037 UJ	0.0025 UJ	0.00670 J	0.00750 J	0.8 UJ	0.0590 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.00035 U	0.15	0.00027 U	0.00039 U	0.0007 J	0.07180	15.40000	0.085 U	0.010 J
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.00051 UJ	0.00094 J	0.00039 UJ	0.0006 UJ	0.00039 UJ	0.00047 J	0.00170 J	0.12 UJ	0.009 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0012 UJ	0.003 J	0.0009 UJ	0.0013 UJ	0.0009 UJ	0.0011 J	0.0033 J	0.29 UJ	0.058 J
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.00040 U	0.00076 J	0.00063 J	0.00044 U	0.00031 U	0.00035 J	0.00120 J	0.097 U	0.010 J
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.00032 U	0.0021 J	0.0011 J	0.00036 U	0.0003 U	0.00052 J	0.00180 J	0.078 U	0.008 J
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0016 UJ	0.0019 UJ	0.0012 UJ	0.0018 UJ	0.0012 UJ	0.0013 UJ	0.0011 UJ	0.39 UJ	0.029 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0003 U	0.00035 U	0.00023 U	0.00034 U	0.0002 U	0.0002 U	0.0002 U	0.074 U	0.0055 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0007 UJ	0.00079 UJ	0.00052 UJ	0.00076 UJ	0.0005 UJ	0.0006 UJ	0.0005 UJ	0.17 UJ	0.012 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0006 UJ	0.00072 UJ	0.00047 UJ	0.00069 UJ	0.0005 UJ	0.0005 UJ	0.0004 UJ	0.15 UJ	0.011 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0003 U	0.00039 U	0.00025 U	0.00037 U	0.0003 U	0.0003 U	0.0002 U	0.081 U	0.006 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0003 U	0.00035 U	0.00023 U	0.00034 U	0.000 U	0.0002 U	0.0002 U	0.074 U	0.006 U
SED-SD-C2-0-0.5-DUF	'0-0.5	7/26/2011	0.0003 U	0.00036 U	0.00024 U	0.00035 U	0.0002 U	0.0003 U	0.0002 U	0.076 U	0.006 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Hexanone mg/kg	pentanone (MIBK) mg/kg	Acetone mg/kg	Benzene mg/kg	Bromochloromethane mg/kg	Bromodichlorometh ane mg/kg	Bromoform mg/kg	Bromomethane mg/kg	Carbon disulfide mg/kg
Sediment ERL											
Sediment ERM											
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.034 UJ	0.03600 UJ	0.32400 J	0.00180 UJ	0.00710 UJ	0.0031 UJ	0.0100 UJ	0.00540 UJ	0.04130 J
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.0036 U	0.00380 U	0.03590	0.00170	0.00076 U	0.00033 U	0.0011 U	0.00058 U	0.0025 J
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.009 J	0.00560 UJ	0.01680 J	0.00028 UJ	0.00110 UJ	0.00048 UJ	0.0016 UJ	0.00084 UJ	0.0020 J
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.012 UJ	0.01300 UJ	0.1390 J	0.0007 UJ	0.0026 UJ	0.0011 UJ	0.0037 UJ	0.0020 UJ	0.0065 J
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.0041 U	0.00440 U	0.03580	0.00022 U	0.00087 U	0.00037 U	0.00130 U	0.00066 U	0.00640 J
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.0033 U	0.00350 U	0.01970	0.00018 U	0.00070 U	0.0003 U	0.0010 U	0.00053 U	0.0014 J
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.017 UJ	0.01800 UJ	0.0592 J	0.0009 UJ	0.0035 UJ	0.00 UJ	0.0051 UJ	0.0027 UJ	0.0054 J
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0031 U	0.00330 U	0.0108 J	0.0002 U	0.0007 U	0.000 U	0.0010 U	0.0005 U	0.0046 J
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0071 UJ	0.0075 UJ	0.0190 UJ	0.0004 UJ	0.0015 UJ	0.00 UJ	0.0022 UJ	0.0011 UJ	0.0006 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0064 UJ	0.00680 UJ	0.0170 UJ	0.0003 UJ	0.0013 UJ	0.0 UJ	0.0020 UJ	0.0010 UJ	0.0011 J
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0035 U	0.00370 U	0.0093 U	0.0002 U	0.0007 U	0.00031 U	0.0011 U	0.0006 U	0.0003 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0031 U	0.0033 U	0.0084 U	0.0002 U	0.0007 U	0.00 U	0.001 U	0.0005 U	0.0007 J
SED-SD-C2-0-0.5-DUF	'0-0.5	7/26/2011	0.0032 U	0.00340 U	0.0086 U	0.0002 U	0.0007 U	0.0 U	0.0010 U	0.0005 U	0.0008 J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Carbon tetrachloride mg/kg	Chlorobenzene mg/kg	Chloroethane mg/kg	Chloroform mg/kg	Chloromethane mg/kg	cis-1,2-Dichloroethene mg/kg	cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	Dibromochloromethane mg/kg
Sediment ERL											
Sediment ERM											
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.00480 UJ	0.00440 UJ	0.00560 UJ	0.00660 UJ	0.00860 UJ	0.00440 UJ	0.0021 UJ	0.0052 UJ	0.0023 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.00051 U	0.18700	0.0006 U	0.00071 U	0.00091 U	0.00047 U	0.00022 U	0.0021 J	0.00025 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.00074 UJ	0.00069 UJ	0.00087 UJ	0.00100 UJ	0.00130 UJ	0.00069 UJ	0.00032 UJ	0.00081 UJ	0.00036 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0017 UJ	0.0016 UJ	0.0020 UJ	0.0024 UJ	0.0031 UJ	0.0016 UJ	0.00075 UJ	0.0019 UJ	0.00083 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.00058 U	0.00054 U	0.0007 U	0.00081 U	0.00100 U	0.00054 U	0.00025 U	0.00063 U	0.00028 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.00046 U	0.00060 J	0.0006 U	0.00065 U	0.00084 U	0.00043 U	0.0002 U	0.00051 U	0.00023 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0023 UJ	0.0022 UJ	0.0028 UJ	0.0033 UJ	0.0042 UJ	0.0022 UJ	0.001 UJ	0.0026 UJ	0.0011 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0004 U	0.0004 U	0.0005 U	0.0006 U	0.0008 U	0.0004 U	0.00019 U	0.00048 U	0.00021 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0010 UJ	0.0009 UJ	0.0012 UJ	0.0014 UJ	0.0018 UJ	0.0009 UJ	0.00043 UJ	0.0011 UJ	0.00048 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0009 UJ	0.0008 UJ	0.0011 UJ	0.0013 UJ	0.0016 UJ	0.0008 UJ	0.00039 UJ	0.00098 UJ	0.00044 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0005 U	0.0005 U	0.0006 U	0.0007 U	0.0009 U	0.0005 U	0.00021 U	0.00053 U	0.00023 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0004 U	0.0004 U	0.0005 U	0.0006 U	0.0008 U	0.0004 U	0.00019 U	0.00048 U	0.00021 U
SED-SD-C2-0-0.5-DUF	'0-0.5	7/26/2011	0.0005 U	0.0004 U	0.0005 U	0.0006 U	0.0008 U	0.0004 U	0.0002 U	0.00049 U	0.00022 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Dichlorodifluoromethane (Freon 12) mg/kg	Ethylbenzene mg/kg	Isopropylbenzene (Cumene) mg/kg	m,p-Xylene (sum of isomers) mg/kg	Methylcyclohexane mg/kg	Methylene chloride mg/kg	Styrene mg/kg	tert-Butyl methyl ether (MTBE) mg/kg
Sediment ERL										
Sediment ERM										
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.0044 UJ	0.00200 UJ	0.0019 UJ	0.0043 UJ	0.0034 UJ	0.0329 J	0.0025 UJ	0.0025 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.00047 U	0.00800	0.0047 J	0.0034	0.0033 J	0.00034 U	0.00027 U	0.00026 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.00068 UJ	0.00032 UJ	0.00029 UJ	0.00067 UJ	0.00052 UJ	0.00049 UJ	0.00039 UJ	0.00038 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0016 UJ	0.0007 UJ	0.00068 UJ	0.0016 UJ	0.0012 UJ	0.0011 UJ	0.00092 UJ	0.00089 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.00054 U	0.00025 U	0.00023 U	0.00052 U	0.00041 U	0.00038 U	0.00031 U	0.0003 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.00043 U	0.0002 U	0.00018 U	0.00042 U	0.00033 U	0.00031 U	0.00025 U	0.00024 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0022 UJ	0.0010 UJ	0.00092 UJ	0.0021 UJ	0.0017 UJ	0.0016 UJ	0.0012 UJ	0.0012 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.00041 U	0.0002 U	0.00017 U	0.0004 U	0.00031 U	0.00029 U	0.00023 U	0.00023 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.00092 UJ	0.0004 UJ	0.00039 UJ	0.0009 UJ	0.0007 UJ	0.00066 UJ	0.00053 UJ	0.00051 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.00083 UJ	0.0004 UJ	0.00035 UJ	0.00081 UJ	0.0006 UJ	0.0006 UJ	0.00048 UJ	0.00046 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.00045 U	0.0002 U	0.00019 U	0.00044 U	0.00034 U	0.00032 U	0.00026 U	0.00025 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.00041 U	0.0002 U	0.00017 U	0.0004 U	0.00031 U	0.00029 U	0.00023 U	0.00023 U
SED-SD-C2-0-0.5-DUP	'0-0.5	7/26/2011	0.00042 U	0.0002 U	0.00018 U	0.00041 U	0.00032 U	0.0003 U	0.00024 U	0.00023 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Tetrachloroethene (PCE) mg/kg	Toluene mg/kg	trans-1,2-Dichloroethene mg/kg	trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichlorofluoromethane (Freon 11) mg/kg	Vinyl chloride mg/kg	Xylenes, total mg/kg
Sediment ERL										
Sediment ERM										
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.0026 UJ	0.0052 UJ	0.0058 UJ	0.0046 UJ	0.0034 UJ	0.0066 UJ	0.00630 UJ	0.0025 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.0003 U	0.0024	0.00062 U	0.00049 U	0.00036 U	0.00071 U	0.00067 U	0.0042
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.0004 UJ	0.00081 UJ	0.0009 UJ	0.00072 UJ	0.00053 UJ	0.001 UJ	0.00098 UJ	0.00039 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.001 UJ	0.0019 UJ	0.0021 UJ	0.0017 UJ	0.0012 UJ	0.0024 UJ	0.0023 UJ	0.00091 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.0003 U	0.00063 U	0.00071 U	0.00056 U	0.00041 U	0.0008 U	0.00077 U	0.00031 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.0003 U	0.00051 U	0.00057 U	0.00045 U	0.00033 U	0.00065 U	0.00062 U	0.00025 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0013 UJ	0.0027 J	0.0029 UJ	0.0023 UJ	0.0017 UJ	0.0033 UJ	0.0031 UJ	0.0012 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0002 U	0.00048 U	0.00054 U	0.00043 U	0.00031 U	0.00061 U	0.0006 U	0.00023 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0006 UJ	0.0011 UJ	0.0012 UJ	0.00096 UJ	0.00071 UJ	0.0014 UJ	0.0013 UJ	0.00053 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0005 UJ	0.00098 UJ	0.0011 UJ	0.00087 UJ	0.00064 UJ	0.0012 UJ	0.0012 UJ	0.00048 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0003 U	0.00053 U	0.00059 U	0.00047 U	0.00035 U	0.00067 U	0.0006 U	0.00026 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0002 U	0.00048 U	0.00054 U	0.00043 U	0.00031 U	0.00061 U	0.0006 U	0.00023 U
SED-SD-C2-0-0.5-DUF	'0-0.5	7/26/2011	0.0003 U	0.00049 U	0.00055 U	0.00044 U	0.00032 U	0.00063 U	0.0006 U	0.00024 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
INORGANICS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Cyanide mg/kg
Sediment ERL			
Sediment ERM			
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	1.80 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.39
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.54 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	1.10 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.42 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.34 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.90 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.32 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.71 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.57 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.33 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.31 U
SED-SD-C2-0-0.5-DUF	'0-0.5	7/26/2011	0.29 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	1,2,4,5-Tetrachlorobenzene	Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL											
Sediment ERM											
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.1 UJ	0.2 UJ	0.3 UJ	0.2 UJ	0.4 UJ	0.4 UJ	0.3 UJ	0.1 UJ	0.1 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.1 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U	0.0 U	0.0 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.0 UJ	0.0 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.1 UJ	0.1 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.0 U	0.0 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.1 U	0.1 U	0.1 U	0.0 U	0.0 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.2 UJ	0.2 UJ	0.1 UJ	0.1 UJ	0.0 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.1 U	0.1 U	0.0 U	0.0 U	0.0 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.0 UJ	0.0 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.0 UJ	0.0 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.1 U	0.0 U	0.1 U	0.1 U	0.1 U	0.0 U	0.0 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.1 U	0.1 U	0.0 U	0.0 U	0.0 U
SED-SD-C2-0-0.5-DUP	'0-0.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.1 U	0.1 U	0.0 U	0.0 U	0.0 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-cresol)	2-Nitroaniline	2-Nitrophenol	Dichlorobenzidine	Methylphenol (m,p-cresol)	3-Nitroaniline	4,6-Dinitro-2-methylphenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL					**0.07**							
Sediment ERM					**0.67**							
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.1 UJ	0.2 UJ	0.1 UJ	0.3 UJ	0.1 UJ	0.2300 UJ	0.1 UJ	0.3 UJ	0.1 UJ	0.3 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.0 U	0.1 U	0.1 U	0.1 U	0.0 U	0.0960 U	0.0 U	0.1 U	0.0 U	0.1 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0720 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.1 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.1 UJ	0.2 UJ	0.1 UJ	0.1400 UJ	0.0 UJ	0.2 UJ	0.1 UJ	0.2 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.1 U	0.0 U	0.1 U	0.0 U	0.0570 U	0.0 U	0.1 U	0.0 U	0.1 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.0 U	0.0440 U	0.0 U	0.1 U	0.0 U	0.1 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1200 UJ	0.0 UJ	0.2 UJ	0.0 UJ	0.1 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.0 U	0.0420 U	0.0 U	0.1 U	0.0 U	0.0 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0900 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.1 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0770 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.1 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.1 U	0.0 U	0.0470 U	0.0 U	0.1 U	0.0 U	0.1 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.0 U	0.0410 U	0.0 U	0.0 U	0.0 U	0.0 U
SED-SD-C2-0-0.5-DUP	'0-0.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.0 U	0.0420 U	0.0 U	0.1 U	0.0 U	0.0 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL									**0.16**	**0.044**		**0.085**
Sediment ERM									**0.5**	**0.64**		**1.1**
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.1 UJ	0.2 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.4 UJ	0.1 UJ	**0.2 J**	0.0 UJ	0.3 U
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.2 U	0.0 U	0.0 U	0.0 U	*1.3*
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.1 J	0.0 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0 J	0.0 UJ	0.1 J
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.1 UJ	0.2 UJ	0.0 UJ	**0.1 J**	0.0 UJ	**0.2 J**
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.1 U	0.0 U	0.0 J	0.0 U	**0.1**
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.0 U	0.1 U	0.0 U	0.0 J	0.0 U	0.0
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.0 UJ	0.2 UJ	0.0 UJ	0.0 UJ	0.0 UJ	0.1 J
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.0 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.0 UJ	0.0 J
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0 UJ	0.0 UJ	0.0 J
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.0 U	0.1 U	0.0 U	0.0 U	0.0 U	0.0 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.0 U	0.1 U	0.0 U	0.0 J	0.0 U	0.0 J
SED-SD-C2-0-0.5-DUP	'0-0.5	7/26/2011	0.0 U	0.0 U	0.0 U	0.0 U	0.0 U	0.1 U	0.0 U	0.0 J	0.0 U	0.0 J

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	Chloroethoxy)methane
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL												
Sediment ERM												
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.1 UJ	0.4 J	0.3 J	1.1 J	0.4 J	0.5 J	0.1 UJ	0.0 UJ	0.1 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.0 U	0.0 U	0.1	0.0 J	0.1	0.1 J	0.1 J	0.1 U	0.0 U	0.0 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0 UJ	0.1 J	0.1 J	0.2 J	0.1 J	0.1 J	0.0 UJ	0.0 UJ	0.0 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0 UJ	0.2 J	0.2 J	0.4 J	0.2 J	0.2 J	0.1 UJ	0.0 UJ	0.1 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.1	0.1	0.2	0.1	0.2	0.0 U	0.0 U	0.0 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.1	0.1	0.1	0.1	0.1	0.0 U	0.0 U	0.0 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0 UJ	0.1 J	0.2 J	0.2 J	0.2 J	0.2 J	0.1 UJ	0.0 UJ	0.0 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0 U	0.0 U	0.0 J	0.0 J	0.0 J	0.0 J	0.0 J	0.0 U	0.0 U	0.0 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0 UJ	0.1 J	0.2 J	0.2 J	0.1 J	0.2 J	0.0 UJ	0.0 UJ	0.0 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0 UJ	0.1 J	0.2 J	0.2 J	0.1 J	0.1 J	0.0 UJ	0.0 UJ	0.0 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.1	0.1	0.1	0.0	0.0 J	0.0 U	0.0 U	0.0 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.1	0.1	0.1	0.1	0.1	0.0 U	0.0 U	0.0 U
SED-SD-C2-0-0.5-DUP	'0-0.5	7/26/2011	0.0 U	0.0 U	0.1	0.1	0.1	0.1	0.1	0.0 U	0.0 U	0.0 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Chloroethyl)ether	Chloroisopropyl) ether	Ethylhexyl)phthalate	Caprolactam	Carbazole	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	dl-n-Butyl phthalate
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL								**0.384**					
Sediment ERM								**2.8**					
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.1 UJ	0.1 UJ	0.3 UJ	0.1 UJ	0.3 J	**2.4 J**	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.0490 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.0 U	0.0 U	0.8 UJ	0.0 U	0.0 U	0.3	0.0 U	0.0 U	0.0 U	0.0 U	0.0200 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0 UJ	0.1 UJ	0.0 UJ	0.0 J	0.3 J	0.0 J	0.0 UJ	0.0 UJ	0.0 UJ	0.0150 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0 UJ	1.0 J	0.0 UJ	0.1 J	**0.5 J**	0.1 J	0.0 UJ	0.0 UJ	0.0 UJ	0.2690 J
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.1 UJ	0.0 U	0.0 J	0.3	0.0 J	0.0 U	0.0 U	0.0 U	0.0120 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.4 UJ	0.0 U	0.0 U	0.1	0.0 J	0.0 U	0.0 U	0.1 J	0.1600
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0 UJ	1.3 J	0.0 UJ	0.1 UJ	0.2 J	0.1 J	0.0 UJ	0.0 UJ	0.0 UJ	0.2740 J
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0 U	0.0 U	0.3 UJ	0.0 U	0.0 U	0.0 J	0.0 U	0.0 U	0.0 U	0.0 U	0.0089 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0 UJ	0.5 UJ	0.0 UJ	0.0 UJ	0.2 J	0.1 J	0.0 UJ	0.0 UJ	0.0 UJ	0.1830 J
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0 UJ	0.5 UJ	0.0 UJ	0.0 UJ	0.2 J	0.0 J	0.0 UJ	0.0 UJ	0.0 UJ	0.1280 J
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.2 UJ	0.0 U	0.0 U	0.1	0.0 J	0.0 U	0.0 U	0.0 U	0.0634 J
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0 U	0.1 UJ	0.0 U	0.0 U	0.1	0.0 J	0.0 U	0.0 U	0.0 U	0.0085 U
SED-SD-C2-0-0.5-DUP	'0-0.5	7/26/2011	0.0 U	0.0 U	0.2 UJ	0.0 U	0.0 U	0.1	0.0 J	0.0 U	0.0 U	0.0 U	0.0087 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	dl-n-Octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene	Isophorone	Naphthalene	Nitrobenzene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sediment ERL				**0.6**	**0.019**							**0.16**	
Sediment ERM				**0.51**	**0.54**							**2.1**	
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.1100 UJ	3.81 J	0.072 UJ	0.072 UJ	0.061 UJ	0.22 UJ	0.1 UJ	0.4 J	0.1 UJ	0.1 UJ	0.1 UJ
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.0440 U	0.262	0.03 U	0.029 U	0.025 U	0.092 U	0.0 U	0.1 J	0.0 U	0.1	0.0 U
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.0330 UJ	0.56 J	0.022 UJ	0.022 UJ	0.019 UJ	0.07 UJ	0.0 UJ	0.1 J	0.0 UJ	0.0 J	0.0 UJ
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0660 UJ	0.753 J	0.045 UJ	0.044 UJ	0.038 UJ	0.14 UJ	0.0 UJ	0.2 J	0.0 UJ	0.0 UJ	0.0 UJ
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.0260 U	0.36	0.018 U	0.017 U	0.015 U	0.054 U	0.0 U	0.1	0.0 U	0.0 J	0.0 U
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.0200 U	0.143	0.014 U	0.013 U	0.012 U	0.042 U	0.0 U	0.0	0.0 U	0.0 J	0.0 U
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0560 UJ	0.387 J	0.038 UJ	0.038 UJ	0.032 UJ	0.12 UJ	0.0 UJ	0.1 J	0.0 UJ	0.0 UJ	0.0 UJ
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0190 U	0.053	0.013 U	0.013 U	0.011 U	0.041 U	0.0 U	0.0 J	0.0 U	0.0 U	0.0 U
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0410 UJ	0.342 J	0.028 UJ	0.028 UJ	0.024 UJ	0.086 UJ	0.0 UJ	0.1 J	0.0 UJ	0.0 UJ	0.0 UJ
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0350 UJ	0.357 J	0.024 UJ	0.024 UJ	0.02 UJ	0.074 UJ	0.0 UJ	0.1 J	0.0 UJ	0.0 UJ	0.0 UJ
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0210 U	0.121	0.014 U	0.014 U	0.012 U	0.045 U	0.0 U	0.0 J	0.0 U	0.0 U	0.0 U
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0190 U	0.106	0.013 U	0.013 U	0.011 U	0.039 U	0.0 U	0.0	0.0 U	0.0 U	0.0 U
SED-SD-C2-0-0.5-DUP	'0-0.5	7/26/2011	0.0190 U	0.124	0.013 U	0.013 U	0.011 U	0.04 U	0.0 U	0.1	0.0 U	0.0 U	0.0 U

APPENDIX J-6
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	N-Nitroso-di-n-propylamine mg/kg	Nitrosodiphenylamine mg/kg	Pentachlorophenol mg/kg	Phenanthrene mg/kg	Phenol mg/kg	Pyrene mg/kg
Sediment ERL						**0.24**		**0.665**
Sediment ERM						**1.5**		**2.6**
SED-ND-A1-0-0.5	'0-0.5	7/26/2011	0.1 UJ	0.1300 UJ	0.3800 UJ	**1.4500** J	0.2300 UJ	2.7 J
SED-ND-B1-0.5-2	'0.5-2	7/26/2011	0.0 U	0.0540 U	0.1500 U	0.1260	0.0950 U	0.6
SED-ND-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0410 UJ	0.1200 UJ	0.0574 J	0.0720 UJ	0.5 J
SED-ND-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0810 UJ	0.2300 UJ	0.1380 J	0.1400 UJ	**0.7 J**
SED-ND-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0320 U	0.0910 U	0.0610	0.0560 U	0.4
SED-ND-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0250 U	0.0710 U	0.0520	0.0430 U	0.1
SED-SD-A1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0690 UJ	0.2000 UJ	0.1800 J	0.1200 UJ	0.4 J
SED-SD-B1-0.5-1.5	'0.5-1.5	7/26/2011	0.0 U	0.0240 U	0.0680 U	0.0265 J	0.0420 U	0.1
SED-SD-B1-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0510 UJ	0.1400 UJ	0.1350 J	0.0890 UJ	0.4 J
SED-SD-B2-0-0.5	'0-0.5	7/26/2011	0.0 UJ	0.0430 UJ	0.1200 UJ	0.1640 J	0.0760 UJ	0.4 J
SED-SD-C1-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0260 U	0.0750 U	0.0700	0.0460 U	0.1
SED-SD-C2-0-0.5	'0-0.5	7/26/2011	0.0 U	0.0230 U	0.0660 U	0.0445	0.0400 U	0.1
SED-SD-C2-0-0.5-DUP	'0-0.5	7/26/2011	0.0 U	0.0230 U	0.0670 U	0.0480	0.0410 U	0.1

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Arsenic	As+3 As As	As+5 As As	Asb As As	Barium	Chromium	Copper	DMA As As	Iron	Lead	Manganese	Mercury
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	09/18/06	54.2	0.0000730	0.00176	0.00147	335.	4.60	129.	0.00000700	2,210	9.91	22.4	3.28
FC-A-2	'0-0	09/18/06	22.3	0.00000200 U	0.000578	0.00249	365.	6.70	119.	0.00000100 U	1,660	21.3	28.3	3.19
FC-B-1	'0-0	09/19/06	10.2	0.00000200 U	0.000144	0.00242	2,160	24.6	126.	0.00000100 U	1,900	35.6	76.8	21.4
FC-B-2	'0-0	09/19/06	9.61	0.00000200 U	0.0000810	0.00256	1,280	12.5	134.	0.0000110	1,250	13.7	45.9	8.61
FC-C-1	'0-0	09/19/06	7.79	0.00000200 U	0.0000910	0.00265	3,340	37.2	242.	0.00000600	1,330	16.3	42.3	70.2
FC-C-2	'0-0	09/19/06	10.0	0.00000200 U	0.0000970	0.00263	2,160	23.4	125.	0.00000100 U	1,410	8.89	47.9	5.18
FC-D-1	'0-0	09/20/06	8.84	0.00000200 U	0.0000620	0.00191	338.	19.2	124.	0.0000690	1,420	6.94	37.3	3.10
FC-D-2	'0-0	09/20/06	8.73	0.00000200 U	0.0000860	0.00199	271.	21.6	133.	0.0000690	1,040	8.71	33.6	2.38
FC-E-1	'0-0	09/20/06	8.02	0.00000200 U	0.0000510	0.00207	164.	11.6	126.	0.000106	837.	4.96	30.2	1.66
FC-E-2	'0-0	09/20/06	9.17	0.00000200 U	0.0000520	0.00227	119.	19.0	139.	0.000113	972.	7.75	43.3	0.345
FC-F-1	'0-0	09/20/06	6.88	0.00000200 U	0.0000330	0.00182	65.5	19.3	133.	0.000140	611.	4.03	46.0	0.361
FC-F-2	'0-0	09/20/06	9.67	0.00000200 U	0.0000650	0.00268	242.	23.0	135.	0.0000130 J	1,050	8.38	34.1	3.74
MC-A	'0-0	09/19/06	11.4	0.0000880 J	0.000184 J	0.000533	115.	1.10	13.9	0.0000200	364.	3.68	17.6	2.59
MC-A-DUP	'0-0	09/19/06	11.6	0.0000370 J	0.000104 J	0.000441	94.8	1.00	15.0	0.0000150	362.	3.31	22.5	2.09
MC-B	'0-0	09/19/06	5.73	0.00000410	0.0000290	0.000570	142.	0.700	20.5	0.00000780	231.	2.75	20.7	1.98
MC-C	'0-0	09/19/06	5.43	0.00000300	0.0000220	0.000612	607.	1.50	13.3	0.00000100 U	303.	1.93	25.0	7.68
MC-D	'0-0	09/20/06	3.45	0.00000200 U	0.00000800	0.000506	25.9	0.800	13.7	0.00000300	202.	1.47	27.4	0.486
MC-E	'0-0	09/20/06	2.84	0.00000200 U	0.00000800	0.000371	16.9	0.700	13.9	0.00000200	177.	1.30	25.9	0.356
MC-F	'0-0	09/20/06	3.61	0.00000200 U	0.0000370	0.000390	33.4	4.40	16.7	0.00000200	1,210	4.92	55.3	0.535

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
METALS
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Methyl Mercury	MMA As As	Vanadium	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	09/18/06	0.250	0.000000200 U	2.31	81.3
FC-A-2	'0-0	09/18/06	0.260	0.000000200 U	2.45	88.0
FC-B-1	'0-0	09/19/06	0.330	0.000000200 U	3.58	164.
FC-B-2	'0-0	09/19/06	0.270	0.000000200 U	2.47	98.3
FC-C-1	'0-0	09/19/06	0.540	0.000000200 U	3.01	145. J
FC-C-2	'0-0	09/19/06	0.340	0.000000200 U	2.74	84.5
FC-D-1	'0-0	09/20/06	0.210	0.000000200 U	2.64	86.6
FC-D-2	'0-0	09/20/06	0.190	0.000000200 U	2.18	83.5
FC-E-1	'0-0	09/20/06	0.240	0.000000200 U	1.81	77.5
FC-E-2	'0-0	09/20/06	0.270	0.000000200 U	2.28	79.7
FC-F-1	'0-0	09/20/06	0.120	0.000000200 U	1.74	78.1
FC-F-2	'0-0	09/20/06	0.370	0.000000200 U	2.36	70.1
MC-A	'0-0	09/19/06	1.32	0.000000200 U	0.990	142.
MC-A-DUP	'0-0	09/19/06	0.970	0.000000200 U	1.19	167.
MC-B	'0-0	09/19/06	0.590	0.000000200 U	0.880	175. J
MC-C	'0-0	09/19/06	0.710	0.000000200 U	1.04	176.
MC-D	'0-0	09/20/06	0.390	0.000000200	0.800	170.
MC-E	'0-0	09/20/06	0.380	0.000000200	0.700	160.
MC-F	'0-0	09/20/06	0.340	0.000000200 U	2.90	179.

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB 206)	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB 194)	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (PCB 207)	2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195)	2,2',3,3',4,4',5,6'-Octachlorobiphenyl (PCB 196)	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (PCB 197:(197+200))	2,2',3,3',4,4',6-Heptachlorobiphenyl (PCB 171:(171+173))
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.000503	0.000473	0.000111	0.000230	0.000701	0.00167	0.000243	0.000654
FC-A-2	'0-0	9/18/2006	0.000708	0.000794	0.000152 J	0.000415	0.00108	0.00260	0.000240	0.000974
FC-B-1	'0-0	9/19/2006	0.000370 J	0.000321	0.0000680 J	0.000157 J	0.000434	0.00108	0.000115 J	0.000438
FC-B-2	'0-0	9/19/2006	0.000500	0.000487	0.0000945 J	0.000222	0.000598	0.00149	0.000122 J	0.000572
FC-C-1	'0-0	9/19/2006	0.00147 J	0.00167	0.000284	0.000914	0.00259	0.00640	0.000647	0.00197
FC-C-2	'0-0	9/19/2006	0.000379 J	0.000373	0.0000718 J	0.000185 J	0.000591	0.00110	0.000175 J	0.000456
FC-D-1	'0-0	9/20/2006	0.000343 J	0.000344	0.0000681 J	0.000139 J	0.000509	0.00101	0.000131 J	0.000409
FC-D-2	'0-0	9/20/2006	0.000646 J	0.000661	0.000116 J	0.000246	0.000643	0.00122	0.000243	0.000462
FC-E-1	'0-0	9/20/2006	0.000755 J	0.000905	0.0000934 J	0.000268	0.000573	0.000679	0.000170 J	0.000210 J
FC-E-2	'0-0	9/20/2006	0.000777 J	0.000747	0.000133 J	0.000377	0.000753	0.00187	0.000392	0.000712
FC-F-1	'0-0	9/20/2006	0.000462	0.000606	0.0000618 J	0.000214	0.000453	0.00101	0.000125 J	0.000349
FC-F-2	'0-0	9/20/2006	0.00142	0.00154	0.000242	0.000693	0.00170	0.00324	0.000648	0.00113
MC-A	'0-0	9/19/2006	0.000499	0.000700	0.000117 J	0.000507	0.000909 J	0.00285	0.000186 J	0.00118
MC-A-DUP	'0-0	9/19/2006	0.000499	0.000688	0.000107 J	0.000425	0.000319 J	0.00275	0.000155 J	0.00107
MC-B	'0-0	9/19/2006	0.000365	0.00117	0.0000898 J	0.000541	0.000797	0.00325	0.0000858 J	0.000856
MC-C	'0-0	9/19/2006	0.000223	0.000323	0.0000322 J	0.000182 J	0.000335	0.00106	0.0000307 J	0.000415
MC-D	'0-0	9/20/2006	0.000675	0.000744	0.000118 J	0.000391	0.000761	0.00335	0.000165 J	0.00112
MC-E	'0-0	9/20/2006	0.00178 J	0.00159	0.000324	0.00000411 U	0.00436	0.00401	0.000480	0.00125
MC-F	'0-0	9/20/2006	0.000563	0.000612	0.0000912 J	0.000308	0.000625	0.00227	0.0000893 J	0.000797

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,2',3,3',4,4'-Hexachlorobiphenyl (PCB 128:(128+166))	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (PCB 208)	2,2',3,3',4,5,5',6-Octachlorobiphenyl (PCB 198:(198+199))	2,2',3,3',4,5,5'-Heptachlorobiphenyl (PCB 172)	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (PCB 201)	2,2',3,3',4,5,6'-Heptachlorobiphenyl (PCB 174)	2,2',3,3',4,5',6-Heptachlorobiphenyl (PCB 175)	2,2',3,3',4',5,6-Heptachlorobiphenyl (PCB 177)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.00121	0.000242 J	0.00167	0.000537	0.000341	0.00331	0.00000117 U	0.00164
FC-A-2	'0-0	9/18/2006	0.00243	0.000335 J	0.00300	0.000874	0.000534	0.00449	0.00000165 U	0.00259
FC-B-1	'0-0	9/19/2006	0.000643	0.000159 J	0.00104	0.000348	0.000223	0.00246	0.0000157 U	0.00116
FC-B-2	'0-0	9/19/2006	0.00106	0.000214 J	0.00145	0.000509	0.000275	0.00305	0.00000845 U	0.00166
FC-C-1	'0-0	9/19/2006	0.00352	0.000784 J	0.00677	0.00143	0.00100	0.00477	0.00651	0.00392
FC-C-2	'0-0	9/19/2006	0.000712	0.000180 J	0.00117	0.000352	0.000254	0.00000380 U	0.0000191 U	0.00125
FC-D-1	'0-0	9/20/2006	0.000667	0.000170 J	0.00108	0.000327	0.000245	0.00292	0.00000382 U	0.00129
FC-D-2	'0-0	9/20/2006	0.00119	0.000311 J	0.00172	0.000348	0.000355	0.00289	0.00168	0.00115
FC-E-1	'0-0	9/20/2006	0.000515	0.000196 J	0.00171	0.000179 J	0.000188 J	0.00149	0.000765	0.000572
FC-E-2	'0-0	9/20/2006	0.00192	0.000329 J	0.00251	0.000547	0.000456	0.0000174 U	0.00000279 U	0.00178
FC-F-1	'0-0	9/20/2006	0.000926	0.000186 J	0.00127	0.000248	0.000198 J	0.00205	0.000699	0.000921
FC-F-2	'0-0	9/20/2006	0.00373	0.000634	0.00449	0.000896	0.000722	0.00665	0.00446	0.00229
MC-A	'0-0	9/19/2006	0.00208	0.000199 J	0.00208	0.000701	0.000403	0.00216	0.00000268 U	0.00178
MC-A-DUP	'0-0	9/19/2006	0.00182	0.000214 J	0.00176	0.000619	0.000355	0.00213	0.00000467 U	0.00193
MC-B	'0-0	9/19/2006	0.00153	0.000175 J	0.00178	0.000571	0.000232	0.00186	0.000454	0.00179
MC-C	'0-0	9/19/2006	0.000565	0.0000798 J	0.000654	0.000226	0.000128 J	0.000810	0.00000265 U	0.000712
MC-D	'0-0	9/20/2006	0.00190	0.000326	0.00216	0.000770	0.000406	0.00328	0.00000544 U	0.00199
MC-E	'0-0	9/20/2006	0.00247	0.000691 J	0.00477	0.000990	0.000701	0.0000148 U	0.00174	0.00343
MC-F	'0-0	9/20/2006	0.00129	0.000254	0.00166	0.000529	0.000285	0.00204	0.00000339 U	0.00162

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,2',3,3',4,5-Hexachlorobiphenyl (PCB 129:(129+138+160+163))	2,2',3,3',4,5'-Hexachlorobiphenyl (PCB 130)	2,2',3,3',4,6,6'-Heptachlorobiphenyl (PCB 176)	2,2',3,3',4,6-Hexachlorobiphenyl (PCB 131:(131+142))	2,2',3,3',4,6'-Hexachlorobiphenyl (PCB 132)	2,2',3,3',4-Pentachlorobiphenyl (PCB 082)	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (PCB 202)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.00733	0.000326	0.000208	0.00000371 U	0.00308	0.0000103 U	0.000440 J
FC-A-2	'0-0	9/18/2006	0.0148	0.000913	0.000287	0.00000556 U	0.00459	0.000499	0.000700 J
FC-B-1	'0-0	9/19/2006	0.00550	0.000265	0.000165 J	0.00000458 U	0.00171	0.000556	0.000275 J
FC-B-2	'0-0	9/19/2006	0.00841	0.000362	0.000147 J	0.00000447 U	0.00209	0.000599	0.000385 J
FC-C-1	'0-0	9/19/2006	0.0250	0.00122	0.000403	0.0000126 U	0.00479	0.00167	0.00121 J
FC-C-2	'0-0	9/19/2006	0.00582	0.0000133 U	0.000141 J	0.0000155 U	0.00138	0.0000278 U	0.000317 J
FC-D-1	'0-0	9/20/2006	0.00557	0.000108	0.000155 J	0.00000417 U	0.00154	0.000343	0.000310 J
FC-D-2	'0-0	9/20/2006	0.00760	0.0000739 J	0.000156 J	0.00000373 U	0.00261	0.0000107 U	0.000498 J
FC-E-1	'0-0	9/20/2006	0.00362	0.0000526 J	0.0000908 J	0.00000529 U	0.00113	0.00000507 U	0.000258 J
FC-E-2	'0-0	9/20/2006	0.0111	0.000129	0.000312	0.00000976 U	0.00463	0.00000170 U	0.000650 J
FC-F-1	'0-0	9/20/2006	0.00618	0.0000512 J	0.0000889 J	0.00000926 U	0.00167	0.00124	0.000317 J
FC-F-2	'0-0	9/20/2006	0.0203	0.000381	0.000446	0.00000226 U	0.00688	0.00258	0.00113 J
MC-A	'0-0	9/19/2006	0.0155	0.000247 J	0.000163 J	0.00000960 U	0.00298	0.000463 J	0.000515 J
MC-A-DUP	'0-0	9/19/2006	0.0130	0.00000767 UJ	0.000146 J	0.00000893 U	0.00257	0.0000455 UJ	0.000461 J
MC-B	'0-0	9/19/2006	0.0137	0.000548	0.000167 J	0.0000667 U	0.00167	0.000447	0.000422
MC-C	'0-0	9/19/2006	0.00500	0.0000739 J	0.0000582 J	0.0000100 U	0.000893	0.000117	0.000185 J
MC-D	'0-0	9/20/2006	0.0147	0.0000986 J	0.000272	0.00000887 U	0.00299	0.000923	0.000585 J
MC-E	'0-0	9/20/2006	0.0189	0.0000480 J	0.000327	0.00000206 U	0.00424	0.000776	0.00102 J
MC-F	'0-0	9/20/2006	0.0105	0.000100 J	0.000161 J	0.00000572 U	0.00200	0.00000223 U	0.000446 J

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,2',3,3',5,5',6-Heptachlorobiphenyl (PCB 178)	2,2',3,3',5,5'-Hexachlorobiphenyl (PCB 133)	2,2',3,3',5,6,6'-Heptachlorobiphenyl (PCB 179)	2,2',3,3',5,6'-Hexachlorobiphenyl (PCB 135:(135+151+154))	2,2',3,3',5-Pentachlorobiphenyl (PCB 083:(83+99))	2,2',3,3',6,6'-Hexachlorobiphenyl (PCB 136)	2,2',3,3',6-Pentachlorobiphenyl (PCB 084)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.00152	0.000239	0.000914	0.00209	0.00000502 U	0.000358	0.00000755 U
FC-A-2	'0-0	9/18/2006	0.00238	0.000472	0.00124	0.00340	0.00000610 U	0.000471	0.00104
FC-B-1	'0-0	9/19/2006	0.00102	0.000147	0.000657	0.00132	0.000364	0.000220	0.000377
FC-B-2	'0-0	9/19/2006	0.00144	0.000183	0.000648	0.00158	0.00361	0.000209	0.000404
FC-C-1	'0-0	9/19/2006	0.00417	0.000599	0.00156	0.00581	0.0152	0.00111	0.00171
FC-C-2	'0-0	9/19/2006	0.00103	0.000116	0.000620	0.00113	0.00212	0.000170	0.0000203 U
FC-D-1	'0-0	9/20/2006	0.00106	0.000135	0.000620	0.00131	0.00286	0.000225	0.000387
FC-D-2	'0-0	9/20/2006	0.00112	0.000124	0.000698	0.00187	0.00338	0.000350	0.000739
FC-E-1	'0-0	9/20/2006	0.000541	0.0000763 J	0.000373	0.000832	0.00220	0.000137	0.000323
FC-E-2	'0-0	9/20/2006	0.00156	0.000280	0.00132	0.00313	0.00652	0.000730	0.00201
FC-F-1	'0-0	9/20/2006	0.000749	0.000102	0.000410	0.00109	0.00525	0.000174	0.000706
FC-F-2	'0-0	9/20/2006	0.00257	0.000312	0.00179	0.00452	0.0170	0.000963	0.00271
MC-A	'0-0	9/19/2006	0.00193	0.000277	0.000557	0.00324	0.00655	0.000543	0.000826 J
MC-A-DUP	'0-0	9/19/2006	0.00174	0.000360	0.000325	0.00251	0.00422	0.000419	0.000453 J
MC-B	'0-0	9/19/2006	0.00177	0.000246	0.000363	0.00345	0.00618	0.000349	0.000497
MC-C	'0-0	9/19/2006	0.000639	0.0000951 J	0.000164	0.00113	0.00219	0.000151	0.000253
MC-D	'0-0	9/20/2006	0.00200	0.000296	0.000740	0.00365	0.00811	0.000655	0.00124
MC-E	'0-0	9/20/2006	0.00272	0.000498	0.00119	0.00433	0.00102	0.000866	0.00156
MC-F	'0-0	9/20/2006	0.00150	0.000175	0.000601	0.00259	0.00448	0.000478	0.000830

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	Expr1063	Expr1065	2,2',3,4,4',5,5',6-Octachlorobiphenyl (PCB 203)	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180:(180+193))	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (PCB 204)	2,2',3,4,4',5,6-Heptachlorobiphenyl (PCB 181)	2,2',3,4,4',5,6'-Heptachlorobiphenyl (PCB 182)	2,2',3,4,4',5',6-Heptachlorobiphenyl (PCB 183)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.00109	0.00638	0.00109	0.00638	0.00000318 U	0.0000496 J	0.00000140 U	0.00126
FC-A-2	'0-0	9/18/2006	0.00181	0.00960	0.00181	0.00960	0.000135 J	0.0000691 J	0.00000197 U	0.00154
FC-B-1	'0-0	9/19/2006	0.000695	0.00423	0.000695	0.00423	0.0000480 J	0.0000237 J	0.0000187 U	0.000869
FC-B-2	'0-0	9/19/2006	0.000971	0.00562	0.000971	0.00562	0.0000724 J	0.0000282 J	0.0000101 U	0.00122
FC-C-1	'0-0	9/19/2006	0.00405	0.0225	0.00405	0.0225	0.00000781 U	0.0000187 U	0.0000346 U	0.00313
FC-C-2	'0-0	9/19/2006	0.000694	0.00428	0.000694	0.00428	0.00000648 J	0.00000305 U	0.0000228 U	0.00105
FC-D-1	'0-0	9/20/2006	0.000639	0.00421	0.000639	0.00421	0.0000432 J	0.00000415 U	0.00000456 U	0.000922
FC-D-2	'0-0	9/20/2006	0.00110	0.00479	0.00110	0.00479	0.00000350 U	0.00000200 U	0.0000151 U	0.00102
FC-E-1	'0-0	9/20/2006	0.00133	0.00283	0.00133	0.00283	0.00000486 U	0.0000129 U	0.00000446 U	0.000458
FC-E-2	'0-0	9/20/2006	0.00189	0.00658	0.00189	0.00658	0.00000393 U	0.0000140 U	0.00000333 U	0.00138
FC-F-1	'0-0	9/20/2006	0.000978	0.00371	0.000978	0.00371	0.00000237 U	0.0000159 U	0.0000240 U	0.000915
FC-F-2	'0-0	9/20/2006	0.00306	0.0117	0.00306	0.0117	0.00000308 U	0.00000238 U	0.00000264 U	0.00243
MC-A	'0-0	9/19/2006	0.00135	0.00938	0.00135	0.00938	0.0000117 J	0.00000659 U	0.00000320 U	0.00218
MC-A-DUP	'0-0	9/19/2006	0.00173	0.00882	0.00173	0.00882	0.0000183 J	0.00000561 U	0.00000557 U	0.00151
MC-B	'0-0	9/19/2006	0.00117	0.00935	0.00117	0.00935	0.0000348 J	0.0000338 U	0.0000235 U	0.00192
MC-C	'0-0	9/19/2006	0.000491	0.00348	0.000491	0.00348	0.0000223 J	0.00000281 U	0.00000316 U	0.000759
MC-D	'0-0	9/20/2006	0.00159	0.0107	0.00159	0.0107	0.0000764 J	0.00000578 U	0.00000649 U	0.00214
MC-E	'0-0	9/20/2006	0.00000365 U	0.0149	0.00000365 U	0.0149	0.00000250 U	0.0000119 U	0.0000241 U	0.00292
MC-F	'0-0	9/20/2006	0.00107	0.00737	0.00107	0.00737	0.0000524 J	0.00000745 U	0.00000404 U	0.00165

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,2',3,4,4',5-Hexachlorobiphenyl (PCB 137)	2,2',3,4,4',6,6'-Heptachlorobiphenyl (PCB 184)	2,2',3,4,4',6-Hexachlorobiphenyl (PCB 139:(139+140))	2,2',3,4,4'-Pentachlorobiphenyl (PCB 085:(85+116+117))	2,2',3,4,5,5',6-Heptachlorobiphenyl (PCB 185)	2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)	2,2',3,4,5,5'-Hexachlorobiphenyl (PCB 141)	2,2',3,4',5,5'-Hexachlorobiphenyl (PCB 146)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.00000234 U	0.0000322 J	0.0000907	0.00000663 U	0.0000136 U	0.0117	0.00204	0.00136
FC-A-2	'0-0	9/18/2006	0.000574	0.0000285 J	0.000133	0.00000807 U	0.0000118 U	0.0180	0.00326	0.00247
FC-B-1	'0-0	9/19/2006	0.000145 J	0.0000626 J	0.0000752 J	0.00150	0.00000826 U	0.00814	0.00136	0.000890
FC-B-2	'0-0	9/19/2006	0.000269	0.0000382 J	0.0000575 J	0.00201	0.0000129 U	0.0103	0.00163	0.00129
FC-C-1	'0-0	9/19/2006	0.00000792 U	0.00000608 U	0.000312	0.0123	0.0000271 U	0.0303	0.00351	0.00354
FC-C-2	'0-0	9/19/2006	0.00000976 U	0.00000586 J	0.0000116 U	0.0000178 U	0.00290	0.00804	0.0000151 U	0.000679
FC-D-1	'0-0	9/20/2006	0.00000263 U	0.00000615 J	0.000122	0.0000198 U	0.00000602 U	0.00839	0.00000407 U	0.000776
FC-D-2	'0-0	9/20/2006	0.00000235 U	0.00000306 J	0.0000957 J	0.00154	0.00000291 U	0.00858	0.00000364 U	0.000951
FC-E-1	'0-0	9/20/2006	0.00000333 U	0.000000780 U	0.0000579 J	0.00144	0.0000187 U	0.00439	0.00000515 U	0.000509
FC-E-2	'0-0	9/20/2006	0.00000614 U	0.000000580 U	0.000358	0.00193	0.00543	0.0130	0.00000951 U	0.00122
FC-F-1	'0-0	9/20/2006	0.00000583 U	0.00000421 U	0.000104	0.00347	0.0000231 U	0.00636	0.00000902 U	0.000706
FC-F-2	'0-0	9/20/2006	0.00000142 U	0.000000460 U	0.000272	0.0158	0.00000345 U	0.0167	0.00000220 U	0.00196
MC-A	'0-0	9/19/2006	0.000216	0.0000272 J	0.000120	0.00000161 U	0.00000956 U	0.0162	0.00180 J	0.00194
MC-A-DUP	'0-0	9/19/2006	0.00000563 U	0.0000104 J	0.00000668 U	0.0000292 U	0.00000814 U	0.0153	0.00000871 UJ	0.00182
MC-B	'0-0	9/19/2006	0.000323	0.0000479 J	0.0000499 U	0.00239	0.0000490 U	0.0166	0.00249	0.00173
MC-C	'0-0	9/19/2006	0.0000746 J	0.0000141 J	0.0000537 J	0.00123	0.00000408 U	0.00527	0.000610	0.000694
MC-D	'0-0	9/20/2006	0.00000559 U	0.0000103 J	0.000145	0.00000419 U	0.00000839 U	0.0177	0.00000864 U	0.00172
MC-E	'0-0	9/20/2006	0.00000130 U	0.00000423 U	0.000327	0.00397	0.00614	0.0245	0.00000201 U	0.00240
MC-F	'0-0	9/20/2006	0.0000879 J	0.00000650 J	0.0000841 J	0.00120	0.0000108 U	0.0123	0.00115	0.00131

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,2',3,4,5,6,6'-Heptachlorobiphenyl (PCB 186)	2,2',3,4',5,6,6'-Heptachlorobiphenyl (PCB 188)	2,2',3,4,5,6'-Hexachlorobiphenyl (PCB 143)	2,2',3,4,5',6-Hexachlorobiphenyl (PCB 144)	Hexachlorobiphenyl (PCB 147:(147+134+149))	2,2',3,4',5,6'-Hexachlorobiphenyl (PCB 148)	2,2',3,4,5-Pentachlorobiphenyl (PCB 086:(86+97+108+119))
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.000000270 U	0.000000240 U	0.00000186 U	0.000000190 U	0.0127	0.0000132 J	0.00306
FC-A-2	'0-0	9/18/2006	0.000000370 U	0.000000280 U	0.00000279 U	0.00000193 U	0.0233	0.0000287 J	0.00560
FC-B-1	'0-0	9/19/2006	0.00000356 U	0.00000296 U	0.00000230 U	0.000121	0.0110	0.00000816 J	0.00230
FC-B-2	'0-0	9/19/2006	0.00000192 U	0.00000167 U	0.00000224 U	0.000145	0.0124	0.00000756 J	0.00269
FC-C-1	'0-0	9/19/2006	0.00000659 U	0.00000518 U	0.00000630 U	0.000821	0.0259	0.00000572 J	0.0119
FC-C-2	'0-0	9/19/2006	0.00000434 U	0.00000359 U	0.00000777 U	0.00000552 U	0.00976	0.00000539 U	0.00124
FC-D-1	'0-0	9/20/2006	0.000000870 U	0.000000700 U	0.00000209 U	0.000138	0.0104	0.0000114 J	0.00215
FC-D-2	'0-0	9/20/2006	0.00000288 U	0.00000241 U	0.00000187 U	0.000101 J	0.0145	0.00000130 U	0.00132
FC-E-1	'0-0	9/20/2006	0.000000850 U	0.000000750 U	0.00000265 U	0.0000492 J	0.00717	0.00000506 U	0.00111
FC-E-2	'0-0	9/20/2006	0.000000630 U	0.000000560 U	0.00000489 U	0.00185	0.0172	0.00000851 J	0.00424
FC-F-1	'0-0	9/20/2006	0.00000456 U	0.00000458 U	0.00000464 U	0.000108	0.00984	0.00000595 J	0.00442
FC-F-2	'0-0	9/20/2006	0.000000500 U	0.000000510 U	0.00000113 U	0.000756	0.0306	0.0000102 J	0.0148
MC-A	'0-0	9/19/2006	0.000000610 UJ	0.000000510 U	0.00000481 U	0.000379 J	0.0162	0.00000622 J	0.00469 J
MC-A-DUP	'0-0	9/19/2006	0.00000106 U	0.000000840 U	0.00000448 U	0.0000704 J	0.0122	0.000000450 U	0.00158 J
MC-B	'0-0	9/19/2006	0.00000447 U	0.00000580 U	0.0000334 U	0.000385	0.0110	0.0000269 J	0.00451
MC-C	'0-0	9/19/2006	0.000000600 U	0.000000580 U	0.00000504 U	0.000144	0.00509	0.00000515 J	0.00130
MC-D	'0-0	9/20/2006	0.00000124 U	0.000000990 U	0.00000444 U	0.000537	0.0164	0.0000254 J	0.00566
MC-E	'0-0	9/20/2006	0.00000459 UJ	0.00000304 U	0.00000103 U	0.00118	0.0218	0.0000349 J	0.00638
MC-F	'0-0	9/20/2006	0.000000770 UJ	0.000000690 U	0.00000287 U	0.000337	0.0106	0.00000981 J	0.00188

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,2',3,4',5-Pentachlorobiphenyl (PCB 090:(90+101+113)) mg/kg	2,2',3,4,6,6'-Hexachlorobiphenyl (PCB 145) mg/kg	2,2',3,4,6-Pentachlorobiphenyl (PCB 088:(88+91)) mg/kg	2,2',3,4,6'-Pentachlorobiphenyl (PCB 089) mg/kg	2,2',3',4,6-Pentachlorobiphenyl (PCB 098:(98+102)) mg/kg	2,2',3,4-Tetrachlorobiphenyl (PCB 041:(41+71+40)) mg/kg	2,2',3,4'-Tetrachlorobiphenyl (PCB 042) mg/kg	2,2',3,5,5'-Pentachlorobiphenyl (PCB 092) mg/kg
FC-A-1	'0-0	9/18/2006	0.00982	0.000000110 U	0.00000673 U	0.00000767 U	0.00000598 U	0.00320	0.00237	0.000813
FC-A-2	'0-0	9/18/2006	0.0155	0.00000114 U	0.00198	0.00000933 U	0.000163	0.00367	0.00287	0.00350
FC-B-1	'0-0	9/19/2006	0.00535	0.000000350 U	0.000755	0.0000112 J	0.0000825 J	0.00168	0.00175	0.00103
FC-B-2	'0-0	9/19/2006	0.00651	0.000000160 U	0.000865	0.0000192 U	0.0000788 J	0.00164	0.00174	0.00120
FC-C-1	'0-0	9/19/2006	0.0227	0.00000196 U	0.00389	0.0000104 U	0.000647	0.0133	0.00555	0.00537
FC-C-2	'0-0	9/19/2006	0.00426	0.00000326 U	0.000880	0.0000206 U	0.0000160 U	0.00000507 U	0.00108	0.000837
FC-D-1	'0-0	9/20/2006	0.00529	0.000000480 U	0.000852	0.0000229 U	0.000127	0.000748	0.00151	0.00102
FC-D-2	'0-0	9/20/2006	0.00779	0.000000790 U	0.00172	0.00000793 U	0.00000618 U	0.00107	0.00103	0.00187
FC-E-1	'0-0	9/20/2006	0.00425	0.00000306 U	0.000851	0.00000376 U	0.00000293 U	0.000819	0.000746	0.000821
FC-E-2	'0-0	9/20/2006	0.0135	0.000000260 U	0.00285	0.00000126 U	0.000000980 U	0.00320	0.00362	0.00327
FC-F-1	'0-0	9/20/2006	0.00785	0.00000113 U	0.00161	0.0000420 J	0.000189	0.00132	0.00158	0.00159
FC-F-2	'0-0	9/20/2006	0.0252	0.000000840 U	0.00606	0.000248	0.000702	0.00594	0.00342	0.00573
MC-A	'0-0	9/19/2006	0.0107	0.00000120 U	0.00212	0.00000186 U	0.00000145 U	0.00266 J	0.00119	0.00277
MC-A-DUP	'0-0	9/19/2006	0.00849	0.000000270 U	0.00185	0.0000338 U	0.0000263 U	0.00000183 UJ	0.00198	0.00222
MC-B	'0-0	9/19/2006	0.00847	0.0000110 U	0.00123	0.0000287 U	0.000177	0.00221	0.00176	0.00217
MC-C	'0-0	9/19/2006	0.00294	0.000000370 U	0.000625	0.00000475 J	0.0000718 J	0.00125	0.000828	0.000737
MC-D	'0-0	9/20/2006	0.0108	0.000000530 U	0.00254	0.00000484 U	0.000327	0.00618	0.00378	0.00297
MC-E	'0-0	9/20/2006	0.0129	0.00000217 U	0.00311	0.000138	0.000584	0.00727	0.00358	0.00362
MC-F	'0-0	9/20/2006	0.00782	0.000000430 U	0.00161	0.00000165 U	0.000200	0.00428	0.00259	0.00198

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,2',3,5,6,6'-Hexachlorobiphenyl (PCB 152:(152+150)) mg/kg	2,2',3,5,6'-Pentachlorobiphenyl (PCB 094) mg/kg	2,2',3,5',6-Pentachlorobiphenyl (PCB 095:(95+93+100)) mg/kg	2,2',3,5'-Tetrachlorobiphenyl (PCB 044:(44+47+65)) mg/kg	2,2',3,6,6'-Pentachlorobiphenyl (PCB 096) mg/kg	2,2',3,6-Tetrachlorobiphenyl (PCB 045:(45+51)) mg/kg	2,2',3,6'-Tetrachlorobiphenyl (PCB 046) mg/kg	2,2',3-Trichlorobiphenyl (PCB 016) mg/kg
FC-A-1	'0-0	9/18/2006	0.000000130 U	0.00000713 U	0.00122	0.00593	0.00000352 J	0.000131	0.000000610 U	0.000119
FC-A-2	'0-0	9/18/2006	0.0000487 J	0.0000172 J	0.00424	0.00710	0.00000676 J	0.000207	0.0000267 J	0.000234
FC-B-1	'0-0	9/19/2006	0.0000125 J	0.00000932 J	0.00143	0.00297	0.00000221 J	0.0000841	0.00000811 J	0.0000611
FC-B-2	'0-0	9/19/2006	0.000000180 U	0.0000179 U	0.00154	0.00348	0.00000145 J	0.0000636	0.00000136 U	0.000101
FC-C-1	'0-0	9/19/2006	0.00000233 U	0.00000968 U	0.0145	0.0201	0.00000456 U	0.00221	0.000152	0.000926
FC-C-2	'0-0	9/19/2006	0.00000386 U	0.0000191 U	0.00118	0.00235	0.00000176 J	0.0000518	0.00000548 U	0.0000466
FC-D-1	'0-0	9/20/2006	0.000000560 U	0.0000213 U	0.00149	0.00354	0.000000690 U	0.0000923	0.00000251 U	0.000124
FC-D-2	'0-0	9/20/2006	0.000000930 U	0.00000737 U	0.00255	0.00270	0.000000430 U	0.000171	0.00000325 U	0.0000744
FC-E-1	'0-0	9/20/2006	0.00000362 U	0.00000350 U	0.00126	0.00188	0.00000284 U	0.000104	0.0000169 U	0.0000785
FC-E-2	'0-0	9/20/2006	0.0000116 J	0.00000117 U	0.00622	0.00818	0.0000192 J	0.000519	0.0000475	0.0000986
FC-F-1	'0-0	9/20/2006	0.00000134 U	0.00000553 U	0.00221	0.00408	0.00000264 U	0.000182	0.00000945 U	0.0000511
FC-F-2	'0-0	9/20/2006	0.000000990 U	0.0000569 J	0.00907	0.00908	0.0000328 J	0.000815	0.0000785	0.000114
MC-A	'0-0	9/19/2006	0.00000142 U	0.00000173 U	0.00966	0.00630	0.0000105 J	0.000541	0.0000145 J	0.000234
MC-A-DUP	'0-0	9/19/2006	0.000000330 U	0.0000314 U	0.00777	0.00550	0.0000108 J	0.000448	0.00000197 U	0.000334
MC-B	'0-0	9/19/2006	0.0000130 U	0.0000267 U	0.00546	0.00517	0.00000623 U	0.000455	0.0000165 U	0.000141
MC-C	'0-0	9/19/2006	0.000000440 U	0.00000264 U	0.00268	0.00276	0.00000322 J	0.000217	0.00000799 J	0.000136
MC-D	'0-0	9/20/2006	0.000000620 U	0.00000450 U	0.00911	0.0110	0.0000207 J	0.000889	0.00000684 U	0.000491
MC-E	'0-0	9/20/2006	0.00000257 U	0.000259	0.0131	0.0124	0.0000248 J	0.00211	0.000128	0.000728
MC-F	'0-0	9/20/2006	0.00000404 J	0.00000154 U	0.00671	0.00842	0.0000183 J	0.000771	0.0000280 J	0.000398

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153:(153+168))	2,2',4,4',6,6'-Hexachlorobiphenyl (PCB 155)	2,2',4,5',6-Pentachlorobiphenyl (PCB 103)	2,2',4,5-Tetrachlorobiphenyl (PCB 048)	2,2',4,5'-Tetrachlorobiphenyl (PCB 049:(49+69))	2,2',4,6,6'-Pentachlorobiphenyl (PCB 104)	2,2',4,6-Tetrachlorobiphenyl (PCB 050:(50+53))	2,2',4-Trichlorobiphenyl (PCB 017)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.00870	0.00436	0.00000654 U	0.000000480 U	0.00570	0.0000138 J	0.0000844	0.000763
FC-A-2	'0-0	9/18/2006	0.0139	0.00416	0.0000677 J	0.000759	0.00686	0.0000135 J	0.000145	0.00110
FC-B-1	'0-0	9/19/2006	0.00549	0.00538	0.0000385 J	0.000370	0.00352	0.0000184 J	0.0000629	0.000425
FC-B-2	'0-0	9/19/2006	0.00786	0.00441	0.0000164 U	0.000377	0.00337	0.0000147 J	0.0000561	0.000400
FC-C-1	'0-0	9/19/2006	0.0292	0.00494	0.000280	0.00000873 U	0.0162	0.00000731 U	0.00157	0.00199
FC-C-2	'0-0	9/19/2006	0.00559	0.00323	0.0000176 U	0.00000431 U	0.00330	0.0000155 J	0.0000603	0.000312
FC-D-1	'0-0	9/20/2006	0.00559	0.00221	0.0000196 U	0.00000197 U	0.00471	0.00000102 U	0.0000624	0.000509
FC-D-2	'0-0	9/20/2006	0.00706	0.00147	0.0000614 J	0.00136	0.00485	0.000000660 U	0.000114	0.000538
FC-E-1	'0-0	9/20/2006	0.00369	0.00103	0.00000321 U	0.00117	0.00391	0.00000480 U	0.0000701	0.000505
FC-E-2	'0-0	9/20/2006	0.00927	0.000160 J	0.00000107 U	0.00832	0.00231	0.00000169 J	0.000335	0.00000359 U
FC-F-1	'0-0	9/20/2006	0.00576	0.000347	0.0000538 J	0.00131	0.00533	0.00000530 U	0.000121	0.000417
FC-F-2	'0-0	9/20/2006	0.0168	0.000339	0.000164	0.00324	0.0134	0.00000951 U	0.000520	0.000554
MC-A	'0-0	9/19/2006	0.0156	0.00417	0.000119	0.00000185 U	0.00500	0.0000141 J	0.000543	0.000645
MC-A-DUP	'0-0	9/19/2006	0.0147	0.00329	0.0000933 J	0.00000155 U	0.00441	0.0000123 J	0.000424	0.000632
MC-B	'0-0	9/19/2006	0.0152	0.00376	0.0000245 U	0.000134	0.00409	0.0000109 U	0.000250	0.000267
MC-C	'0-0	9/19/2006	0.00571	0.00172	0.0000354 J	0.00000103 U	0.00188	0.00000503 J	0.000190	0.000239
MC-D	'0-0	9/20/2006	0.0168	0.00198	0.000156	0.00000538 U	0.00774	0.0000119 J	0.000534	0.000914
MC-E	'0-0	9/20/2006	0.0230	0.00175	0.00000192 U	0.00310	0.0119	0.00000696 U	0.00175	0.00173
MC-F	'0-0	9/20/2006	0.0114	0.00104	0.0000630 J	0.0000102 U	0.00596	0.00000784 U	0.000639	0.000749

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,2',5,5'-Tetrachlorobiphenyl (PCB 052:(52+43+73))	2,2',5-Trichlorobiphenyl	2,2',6,6'-Tetrachlorobiphenyl (PCB 054)	2,2',6-Trichlorobiphenyl (PCB 019)	2,2'-Dichlorobiphenyl (PCB 004)	2,3,3',4,4',5,5',6-Octachlorobiphenyl (PCB 205)	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.00566	0.000660	0.00000293 U	0.00000236 UJ	0.0000640 J	0.0000314 J	0.0000153 U
FC-A-2	'0-0	9/18/2006	0.00876	0.00118	0.00000472 U	0.0000342 J	0.000129 J	0.0000346 U	0.000128 J
FC-B-1	'0-0	9/19/2006	0.00223	0.000319	0.000000970 U	0.00000847 J	0.0000414 J	0.0000237 J	0.0000321 J
FC-B-2	'0-0	9/19/2006	0.00280	0.000348	0.00000147 U	0.00000668 J	0.0000357 UJ	0.0000329 J	0.0000536 J
FC-C-1	'0-0	9/19/2006	0.0190	0.00229	0.00000508 U	0.000290	0.000369 J	0.000165 UJ	0.000211 J
FC-C-2	'0-0	9/19/2006	0.00193	0.000275	0.00000340 U	0.00000614 J	0.0000394 UJ	0.0000162 J	0.00000539 U
FC-D-1	'0-0	9/20/2006	0.00278	0.000371	0.00000205 U	0.00000775 J	0.0000607 J	0.0000140 J	0.00000794 U
FC-D-2	'0-0	9/20/2006	0.00330	0.000331	0.000000910 U	0.00000841 J	0.0000370 J	0.0000188 UJ	0.0000645 J
FC-E-1	'0-0	9/20/2006	0.00224	0.000363	0.00000259 U	0.00000779 J	0.0000494 J	0.0000304 J	0.0000255 J
FC-E-2	'0-0	9/20/2006	0.00801	0.000256	0.00000134 UJ	0.0000176 J		0.0000529 J	0.0000614 J
FC-F-1	'0-0	9/20/2006	0.00431	0.000245	0.00000359 U	0.00000388 UJ	0.0000304 J	0.0000262 J	0.0000428 J
FC-F-2	'0-0	9/20/2006	0.00973	0.000421	0.00000245 U	0.0000174 J	0.00000483 UJ	0.0000915 J	0.000118
MC-A	'0-0	9/19/2006	0.00813	0.000834	0.00000450 J	0.000110 J	0.000211 J	0.0000135 U	0.0000950 J
MC-A-DUP	'0-0	9/19/2006	0.00682	0.000763	0.00000488 J	0.000100 J	0.000180 J	0.0000204 J	0.0000112 U
MC-B	'0-0	9/19/2006	0.00446	0.000365	0.0000162 UJ	0.0000122 J	0.000274 J	0.0000288 J	0.0000648 J
MC-C	'0-0	9/19/2006	0.00270	0.000368	0.00000222 J	0.0000496 J	0.0000746 J	0.00000924 U	0.00000379 U
MC-D	'0-0	9/20/2006	0.00890	0.00122	0.00000980 J	0.000160	0.000179	0.0000273 J	0.0000110 U
MC-E	'0-0	9/20/2006	0.0158	0.00179	0.0000203 J	0.000359	0.000302	0.413 J	0.0000286 UJ
MC-F	'0-0	9/20/2006	0.00802	0.00107	0.0000104 J	0.000174	0.000191	0.0000418 U	0.0000122 UJ

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,3,3',4,4',5,6-Heptachlorobiphenyl (PCB 190)	2,3,3',4,4',5',6-Heptachlorobiphenyl (PCB 191)	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156:(156+157))	2,3,3',4,4',6-Hexachlorobiphenyl (PCB 158)	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	2,3,3',4,5,5',6-Heptachlorobiphenyl (PCB 192)	2,3,3',4,5,5'-Hexachlorobiphenyl (PCB 159)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.000293	0.000111	0.00111 J	0.000877	0.00287	0.00000851 U	0.00000117 U
FC-A-2	'0-0	9/18/2006	0.000487	0.000162 J	0.00205	0.00156	0.00588	0.00000744 U	0.000116 J
FC-B-1	'0-0	9/19/2006	0.000186	0.0000720 J	0.000623	0.000564	0.00170	0.00000518 U	0.0000595 J
FC-B-2	'0-0	9/19/2006	0.000278	0.0000976 J	0.000923	0.000853	0.00255	0.00000812 U	0.0000283 J
FC-C-1	'0-0	9/19/2006	0.00107	0.000247	0.00256	0.00240	0.00819	0.0000170 U	0.000123 J
FC-C-2	'0-0	9/19/2006	0.000180	0.00000277 U	0.000572 J	0.000418	0.00130	0.00000277 U	0.0000520 J
FC-D-1	'0-0	9/20/2006	0.000188	0.00000377 U	0.000607 J	0.000499	0.00186	0.00000378 U	0.0000505 J
FC-D-2	'0-0	9/20/2006	0.000168	0.00000182 U	0.000897 J	0.000532	0.00253	0.00000183 U	0.00000947 U
FC-E-1	'0-0	9/20/2006	0.000156	0.0000117 U	0.000407	0.000298	0.00130	0.0000117 U	0.00000412 U
FC-E-2	'0-0	9/20/2006	0.000410	0.0000127 U	0.00147	0.00104	0.00431	0.0000127 U	0.000109 J
FC-F-1	'0-0	9/20/2006	0.000206	0.0000145 U	0.000735 J	0.000502	0.00231	0.0000145 U	0.00000698 U
FC-F-2	'0-0	9/20/2006	0.000595	0.000137 J	0.00225	0.00151	0.00774	0.00000216 U	0.00000225 U
MC-A	'0-0	9/19/2006	0.000451	0.000122 J	0.00165	0.00123	0.00448	0.00000600 U	0.0000396 J
MC-A-DUP	'0-0	9/19/2006	0.000480	0.00000511 U	0.00126	0.00113	0.00378	0.00000511 U	0.0000212 J
MC-B	'0-0	9/19/2006	0.000562	0.000145 J	0.000979	0.00130	0.00298	0.0000308 U	0.0000356 J
MC-C	'0-0	9/19/2006	0.000189	0.0000527 J	0.000467	0.000415	0.00139	0.00000256 U	0.0000141 J
MC-D	'0-0	9/20/2006	0.000555	0.00000526 U	0.00151	0.00111	0.00493	0.00000526 U	0.0000483 J
MC-E	'0-0	9/20/2006	0.000635	0.0000108 U	0.00203 J	0.00119	0.00637 J	0.0000108 U	0.000102 J
MC-F	'0-0	9/20/2006	0.000382	0.000109 J	0.00101	0.000743	0.00317	0.00000678 U	0.0000371 J

APPENDIX J-7
DETECTED CONSTITUENTS IN BIOTA
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,3,3',4',5,5'-Hexachlorobiphenyl (PCB 162) mg/kg	2,3,3',4,5',6-Hexachlorobiphenyl (PCB 161) mg/kg	2,3,3',4',5',6-Hexachlorobiphenyl (PCB 164) mg/kg
FC-A-1	'0-0	9/18/2006	0.00000115 U	0.00000409 U	0.000256
FC-A-2	'0-0	9/18/2006	0.000178 J	0.00000612 U	0.00222
FC-B-1	'0-0	9/19/2006	0.0000659 J	0.00000504 U	0.000892
FC-B-2	'0-0	9/19/2006	0.0000553 J	0.00000492 U	0.000781
FC-C-1	'0-0	9/19/2006	0.000200 J	0.0000138 U	0.00645
FC-C-2	'0-0	9/19/2006	0.0000469 J	0.0000171 U	0.0000128 U
FC-D-1	'0-0	9/20/2006	0.0000549 J	0.00000459 U	0.000479
FC-D-2	'0-0	9/20/2006	0.00000931 U	0.00000411 U	0.00165
FC-E-1	'0-0	9/20/2006	0.00000405 U	0.00000582 U	0.000974
FC-E-2	'0-0	9/20/2006	0.000122 J	0.0000107 U	0.00197
FC-F-1	'0-0	9/20/2006	0.00000687 U	0.0000102 U	0.00117
FC-F-2	'0-0	9/20/2006	0.00000221 U	0.00000228 U	0.00475
MC-A	'0-0	9/19/2006	0.000103 J	0.0000106 U	0.00000791 UJ
MC-A-DUP	'0-0	9/19/2006	0.00000150 U	0.00000983 U	0.000646 J
MC-B	'0-0	9/19/2006	0.0000704 J	0.0000734 U	0.000700
MC-C	'0-0	9/19/2006	0.0000321 J	0.0000111 U	0.000132
MC-D	'0-0	9/20/2006	0.000102 J	0.00000976 U	0.000390
MC-E	'0-0	9/20/2006	0.000202 J	0.00000226 U	0.00137
MC-F	'0-0	9/20/2006	0.0000823 J	0.00000630 U	0.00000472 U

APPENDIX J-7
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,3,3',4,5-Pentachlorobiphenyl (PCB 106)	2,3,3',4',5-Pentachlorobiphenyl (PCB 107:(107+124))	2',3,3',4,5-Pentachlorobiphenyl (PCB 122:(122+114))	2,3,3',4,6-Pentachlorobiphenyl (PCB 109)	2,3,3',4',6-Pentachlorobiphenyl (PCB 110:(110+115))	2,3,3',4-Tetrachlorobiphenyl (PCB 055)	2,3,3',4'-Tetrachlorobiphenyl (PCB 056)	2,3,3',5,5',6-Hexachlorobiphenyl (PCB 165)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.00000104 U	0.000000670 U	0.000000600 U	0.000289	0.0121	0.00000290 U	0.00233	0.00000242 U
FC-A-2	'0-0	9/18/2006	0.00000333 U	0.000721	0.000117	0.00115	0.0228	0.00000327 U	0.00305	0.00000362 U
FC-B-1	'0-0	9/19/2006	0.000703	0.000146 J	0.0000330 J	0.000372	0.00662	0.00000274 U	0.000724	0.00000298 U
FC-B-2	'0-0	9/19/2006	0.000577	0.000174 J	0.0000533 J	0.000475	0.00856	0.00000164 U	0.00101	0.00000291 U
FC-C-1	'0-0	9/19/2006	0.00697	0.000365	0.000123	0.00131	0.0278	0.00000598 U	0.00256	0.00000818 U
FC-C-2	'0-0	9/19/2006	0.00000147 U	0.000000940 U	0.0000821 J	0.000457	0.00589	0.00000281 U	0.00158	0.0000101 U
FC-D-1	'0-0	9/20/2006	0.00000256 U	0.000208 J	0.000134	0.000463	0.00818	0.00000269 U	0.00182	0.00000272 U
FC-D-2	'0-0	9/20/2006	0.00305	0.00000370 U	0.00000334 U	0.000327	0.00925	0.00000231 U	0.00203	0.00000243 U
FC-E-1	'0-0	9/20/2006	0.00107	0.000166 J	0.00000205 U	0.000267	0.00436	0.00000388 U	0.00132	0.00000344 U
FC-E-2	'0-0	9/20/2006	0.00198	0.000527	0.00000218 U	0.000830	0.0170	0.00000297 U	0.00359	0.00000635 U
FC-F-1	'0-0	9/20/2006	0.00145	0.000297	0.0000844 J	0.000485	0.0120	0.00000230 U	0.00200	0.00000602 U
FC-F-2	'0-0	9/20/2006	0.00767	0.00117	0.000392	0.00137	0.0351	0.00000545 U	0.00515	0.00000147 U
MC-A	'0-0	9/19/2006	0.00204 J	0.00000147 U	0.00000133 U	0.000947	0.0172 J	0.00000261 U	0.000675 J	0.00000624 U
MC-A-DUP	'0-0	9/19/2006	0.00000152 UJ	0.000000970 U	0.000000880 U	0.000795	0.00937 J	0.00000328 U	0.00000304 UJ	0.00000581 U
MC-B	'0-0	9/19/2006	0.000100 U	0.0000756 U	0.0000682 U	0.0000401 U	0.0136	0.0000169 U	0.000241	0.0000434 U
MC-C	'0-0	9/19/2006	0.00000101 U	0.000000650 U	0.000000590 U	0.000350	0.00378	0.00000134 U	0.000227	0.00000654 U
MC-D	'0-0	9/20/2006	0.00000375 U	0.00000241 U	0.00000218 U	0.00101	0.0209	0.00000223 U	0.000841	0.00000577 U
MC-E	'0-0	9/20/2006	0.00202	0.00000179 U	0.00000161 U	0.00134	0.0179	0.00000677 U	0.00133	0.0000750 J
MC-F	'0-0	9/20/2006	0.00000332 U	0.00000213 U	0.00000193 U	0.000687	0.00831	0.00000328 U	0.000445	0.00000372 U

APPENDIX J-7
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,3,3',5,5'-Pentachlorobiphenyl (PCB 111)	2,3,3',5,6-Pentachlorobiphenyl (PCB 112)	2,3,3',5-Tetrachlorobiphenyl (PCB 057)	2,3,3',5'-Tetrachlorobiphenyl (PCB 058)	2,3,3',6-Tetrachlorobiphenyl (PCB 059:(59+62+75))	2,3,3'-Trichlorobiphenyl (PCB 020:(20+28))	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.00000452 U	0.00655	0.00000282 U	0.00000199 U	0.000504	0.00105	0.000511	0.000000670 U
FC-A-2	'0-0	9/18/2006	0.00000550 U	0.0105	0.000123	0.000153	0.000623	0.00451	0.000991	0.000244
FC-B-1	'0-0	9/19/2006	0.0000105 J	0.00356	0.0000233 J	0.0000826 J	0.000323	0.00216	0.000337	0.0000653 J
FC-B-2	'0-0	9/19/2006	0.0000113 U	0.0000184 U	0.0000198 J	0.0000499 J	0.000338	0.00248	0.000418	0.000114
FC-C-1	'0-0	9/19/2006	0.00000614 U	0.00000993 U	0.00000581 U	0.000302	0.00242	0.0165	0.00131	0.000263 J
FC-C-2	'0-0	9/19/2006	0.0000121 U	0.0000196 U	0.00000273 U	0.00000193 U	0.00000343 U	0.00216	0.000302 J	0.00000102 U
FC-D-1	'0-0	9/20/2006	0.0000135 U	0.0000219 U	0.00000261 U	0.00000184 U	0.00000157 U	0.00279	0.000329	0.00000178 U
FC-D-2	'0-0	9/20/2006	0.00000468 U	0.00000757 U	0.00000224 U	0.00000158 U	0.000138	0.00210	0.000512 J	0.00000399 U
FC-E-1	'0-0	9/20/2006	0.00000222 U	0.00000359 U	0.00000377 U	0.000125	0.000235	0.00295	0.000225	0.00000226 U
FC-E-2	'0-0	9/20/2006	0.000000740 U	0.00000120 U	0.00000289 U	0.000185	0.00000246 U	0.00339	0.000746	0.00000235 U
FC-F-1	'0-0	9/20/2006	0.00000351 U	0.000199 U	0.00000223 U	0.000121	0.000241	0.00321	0.000371	0.0000936 J
FC-F-2	'0-0	9/20/2006	0.00000156 U	0.00000253 U	0.00000529 U	0.000232	0.00113	0.00426	0.000858	0.000206
MC-A	'0-0	9/19/2006	0.00000109 U	0.00000177 U	0.000356 J	0.00000179 U	0.000564 J	0.00556	0.000808	0.000237 J
MC-A-DUP	'0-0	9/19/2006	0.0000199 U	0.0000322 U	0.00000319 UJ	0.00000225 U	0.00000124 UJ	0.00425	0.000658	0.00000107 UJ
MC-B	'0-0	9/19/2006	0.0000169 U	0.0000274 U	0.0000165 U	0.0000116 U	0.000447	0.00304	0.000511	0.000123
MC-C	'0-0	9/19/2006	0.00000168 U	0.00000271 U	0.00000130 U	0.000000920 U	0.000317	0.00196	0.000240	0.0000963 J
MC-D	'0-0	9/20/2006	0.00000286 U	0.00000462 U	0.000288	0.00000153 U	0.00105	0.00712	0.000766	0.000185
MC-E	'0-0	9/20/2006	0.00000133 U	0.0118	0.000455	0.00000464 U	0.00651	0.0181	0.00102 J	0.000415
MC-F	'0-0	9/20/2006	0.000000970 U	0.00000158 U	0.00000319 U	0.00000225 U	0.000900	0.00674	0.000540	0.000137

APPENDIX J-7
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	2',3,4,4',5-Pentachlorobiphenyl (PCB 123)	2,3,4,4'-Tetrachlorobiphenyl (PCB 060)	2,3',4,4'-Tetrachlorobiphenyl (PCB 066)	2,3',4,5,5'-Pentachlorobiphenyl (PCB 120)	2,3',4,5',6-Pentachlorobiphenyl (PCB 121)	2,3,4',5-Tetrachlorobiphenyl (PCB 063)	2,3',4,5-Tetrachlorobiphenyl (PCB 067)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.0118 J	0.000000630 U	0.00107	0.00675	0.00000452 U	0.00000475 U	0.0000449 J	0.00000345 U
FC-A-2	'0-0	9/18/2006	0.0191	0.00000200 U	0.00165	0.00818	0.00000549 U	0.000231	0.000206	0.000448
FC-B-1	'0-0	9/19/2006	0.00482 J	0.000455	0.000428	0.00324	0.0000230 J	0.000396	0.000166	0.00000325 U
FC-B-2	'0-0	9/19/2006	0.00688	0.000000250 U	0.000592	0.00391	0.0000113 U	0.000277	0.000127	0.000144
FC-C-1	'0-0	9/19/2006	0.0230	0.00000532 U	0.00270	0.0177	0.000111	0.000389	0.00101	0.00000711 U
FC-C-2	'0-0	9/19/2006	0.00450 J	0.000000930 U	0.00000257 U	0.00326	0.0000121 U	0.000135	0.000210	0.00000334 U
FC-D-1	'0-0	9/20/2006	0.00545 J	0.00000163 U	0.000629	0.00455	0.0000135 U	0.0000947 J	0.00000243 U	0.000392
FC-D-2	'0-0	9/20/2006	0.00710 J	0.00000331 U	0.00000211 U	0.00458	0.00000467 U	0.00000491 U	0.00000209 U	0.00000275 U
FC-E-1	'0-0	9/20/2006	0.00407	0.00000206 U	0.000346	0.00298	0.00000222 U	0.00000233 U	0.00000351 U	0.00000462 U
FC-E-2	'0-0	9/20/2006	0.0124	0.00000226 U	0.00000272 U	0.0101	0.000000740 U	0.000000780 U	0.00000269 U	0.000238
FC-F-1	'0-0	9/20/2006	0.00720 J	0.00000244 U	0.000540	0.00602	0.0000250 J	0.00000369 U	0.00000208 U	0.00000273 U
FC-F-2	'0-0	9/20/2006	0.0231	0.00000340 U	0.000893	0.0125	0.000118	0.00000164 U	0.00000493 U	0.000253
MC-A	'0-0	9/19/2006	0.0144 J	0.00000136 U	0.00158	0.00993	0.00000109 U	0.000304 J	0.000566	0.00000310 U
MC-A-DUP	'0-0	9/19/2006	0.0122	0.000000980 U	0.00181	0.00911	0.0000199 U	0.000170 J	0.000345	0.00000390 U
MC-B	'0-0	9/19/2006	0.00930	0.000828	0.000975	0.00658	0.0000347 J	0.0000178 U	0.000256	0.0000201 U
MC-C	'0-0	9/19/2006	0.00439	0.000000600 U	0.000524	0.00436	0.00000793 J	0.000112	0.0000950 J	0.00000159 U
MC-D	'0-0	9/20/2006	0.0150	0.00000234 U	0.00195	0.0136	0.00000285 U	0.000152	0.000613	0.00000265 U
MC-E	'0-0	9/20/2006	0.0169 J	0.00000161 UJ	0.00276	0.0210	0.00000133 U	0.00000140 U	0.000961	0.00000806 U
MC-F	'0-0	9/20/2006	0.0100	0.00000201 U	0.00117	0.00987	0.0000498 J	0.0000539 J	0.000232	0.00000390 U

APPENDIX J-7
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,3',4,5'-Tetrachlorobiphenyl (PCB 068)	Tetrachlorobiphenyl (PCB 070:(70+61+74+76))	2,3,4',6-Tetrachlorobiphenyl (PCB 064)	2,3,4-Trichlorobiphenyl (PCB 021:(21+33))	2,3,4'-Trichlorobiphenyl (PCB 022)	2,3',4-Trichlorobiphenyl (PCB 025)	2,3',5,5'-Tetrachlorobiphenyl (PCB 072)	2,3,5-Trichlorobiphenyl (PCB 023)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.00000248 U	0.0147	0.00383	0.0000134 U	0.0000115 U	0.0000139 U	0.00000270 U	0.0000150 U
FC-A-2	'0-0	9/18/2006	0.000115	0.0181	0.00529	0.000534	0.00118	0.000427	0.000246	0.0000186 U
FC-B-1	'0-0	9/19/2006	0.0000556 J	0.00601	0.00207	0.000129	0.000450	0.000207	0.0000923 J	0.00000855 U
FC-B-2	'0-0	9/19/2006	0.0000586 J	0.00751	0.00311	0.000118	0.000429	0.000235	0.000102 J	0.0000110 U
FC-C-1	'0-0	9/19/2006	0.000152	0.0255	0.0125	0.0000163 U	0.00240	0.0000169 U	0.000330	0.0000182 U
FC-C-2	'0-0	9/19/2006	0.0000594 J	0.00522	0.00130	0.0000115 U	0.000317	0.000203	0.00000261 U	0.0000128 U
FC-D-1	'0-0	9/20/2006	0.0000653 J	0.00861	0.00175	0.0000118 U	0.000572	0.0000122 U	0.000109	0.0000132 U
FC-D-2	'0-0	9/20/2006	0.0000577 J	0.00855	0.000666	0.00000333 U	0.000492	0.00000346 U	0.000122	0.00000372 U
FC-E-1	'0-0	9/20/2006	0.0000470 J	0.00743	0.000456	0.00000964 U	0.000518	0.0000100 U	0.000111	0.0000108 U
FC-E-2	'0-0	9/20/2006	0.0000744 J	0.0121	0.00235	0.0000101 U	0.000474	0.000144	0.000150	0.0000113 U
FC-F-1	'0-0	9/20/2006	0.0000662 J	0.00945	0.00146	0.000129	0.000513	0.000242	0.000117	0.00000427 U
FC-F-2	'0-0	9/20/2006	0.0000819 J	0.0165	0.00128	0.000000960 U	0.000619	0.000000990 U	0.000197	0.00000107 U
MC-A	'0-0	9/19/2006	0.0000874 J	0.0126	0.00485	0.0000198 U	0.000709	0.000166	0.000171	0.0000221 U
MC-A-DUP	'0-0	9/19/2006	0.0000619 J	0.00849	0.00662	0.0000190 U	0.000517	0.000125	0.000139	0.0000212 U
MC-B	'0-0	9/19/2006	0.0000390 J	0.00593	0.00487	0.000108	0.000318	0.0000554	0.0000696 J	0.00000825 U
MC-C	'0-0	9/19/2006	0.0000353 J	0.00427	0.00280	0.00000521 U	0.000222	0.0000479	0.0000548 J	0.00000583 U
MC-D	'0-0	9/20/2006	0.000106	0.0139	0.00912	0.0000123 U	0.000802	0.0000128 U	0.000194	0.0000138 U
MC-E	'0-0	9/20/2006	0.000188	0.0250	0.0101	0.00000211 U	0.00223	0.00000220 U	0.000356	0.00000236 U
MC-F	'0-0	9/20/2006	0.00000281 U	0.0102	0.00694	0.0000130 U	0.000909	0.0000135 U	0.00000305 U	0.0000145 U

APPENDIX J-7
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,3',5-Trichlorobiphenyl (PCB 026:(26+29))	2',3,5-Trichlorobiphenyl (PCB 034)	2,3',6-Trichlorobiphenyl (PCB 027:(27+24))	2,3-Dichlorobiphenyl (PCB 005)	2,3'-Dichlorobiphenyl (PCB 006)	2,4',5-Trichlorobiphenyl (PCB 031)	2,4',6-Trichlorobiphenyl (PCB 032)	2,4-Dichlorobiphenyl (PCB 007)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.0000132 U	0.0000137 U	0.0000955	0.00000222 U	0.000109	0.000713	0.000486	0.0000107
FC-A-2	'0-0	9/18/2006	0.000926	0.0000171 U	0.000166	0.00000336 U	0.000165	0.00529	0.000657	0.0000134
FC-B-1	'0-0	9/19/2006	0.000346	0.00000786 U	0.0000176 J	0.0000194	0.0000340	0.00253	0.000255	0.00000486 J
FC-B-2	'0-0	9/19/2006	0.000309	0.0000101 U	0.0000189 J	0.00000284 U	0.0000291	0.00240	0.000271	0.00000538 J
FC-C-1	'0-0	9/19/2006	0.00130	0.0000167 U	0.000204	0.00000686 U	0.000128	0.00829	0.00296	0.00000636 U
FC-C-2	'0-0	9/19/2006	0.000274	0.0000118 U	0.0000225 J	0.00000572 U	0.0000149	0.00188	0.000187	0.00000529 U
FC-D-1	'0-0	9/20/2006	0.000559	0.0000121 U	0.00000160 U	0.0000102 U	0.0000104 U	0.00239	0.000305	0.00000947 U
FC-D-2	'0-0	9/20/2006	0.000491	0.00000342 U	0.0000444	0.00000158 U	0.00000165 U	0.00390	0.000393	0.00000146 U
FC-E-1	'0-0	9/20/2006	0.000657	0.00000991 U	0.0000457	0.00000132 U	0.0000531	0.00296	0.000307	0.00000122 U
FC-E-2	'0-0	9/20/2006	0.000364	0.0000104 U	0.000274	0.00000603 U	0.0000114	0.00183	0.000584	0.00000559 U
FC-F-1	'0-0	9/20/2006	0.000404	0.00000392 U	0.0000436	0.00000647 U	0.00000676 U	0.00302	0.000416	0.00000599 U
FC-F-2	'0-0	9/20/2006	0.000617	0.000000980 U	0.0000638	0.00000228 U	0.0000244	0.00272	0.000832	0.00000211 U
MC-A	'0-0	9/19/2006	0.000516	0.0000203 U	0.0000989 J	0.00000849 U	0.0000794	0.00290	0.000894	0.00000786 U
MC-A-DUP	'0-0	9/19/2006	0.000350	0.0000195 U	0.000000720 UJ	0.00000480 U	0.0000557	0.00178	0.000776	0.00000953 J
MC-B	'0-0	9/19/2006	0.000138	0.00000758 U	0.0000372 J	0.0000100 U	0.0000100 U	0.00135	0.000537	0.0000100 U
MC-C	'0-0	9/19/2006	0.000131	0.00000536 U	0.0000482	0.00000343 U	0.0000193	0.000907	0.000350	0.00000317 U
MC-D	'0-0	9/20/2006	0.000331	0.0000126 U	0.000102	0.0000101 U	0.0000601	0.00262	0.00133	0.00000972 U
MC-E	'0-0	9/20/2006	0.00154	0.00000217 U	0.000260	0.00000119 U	0.0000827	0.00758	0.00269	0.0000110
MC-F	'0-0	9/20/2006	0.000393	0.0000133 U	0.000152	0.0000105 U	0.0000105 U	0.00294	0.00125	0.0000105 U

APPENDIX J-7
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	2,4'-Dichlorobiphenyl (PCB 008)	2,5-Dichlorobiphenyl (PCB 009)	2,6-Dichlorobiphenyl (PCB 010)	2-Chlorobiphenyl (PCB 001)	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	3,3',4,4'-Tetrachlorobiphenyl (PCB 077)	3,3',4,5,5'-Pentachlorobiphenyl (PCB 127)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.000310	0.0000274	0.00000337 U	0.0000412 J	0.00000171 U	0.000000820 U	0.000298	0.000000680 U
FC-A-2	'0-0	9/18/2006	0.000468	0.0000394	0.00000589 J	0.0000304 J	0.0000188 J	0.000191	0.000793	0.0000222 J
FC-B-1	'0-0	9/19/2006	0.0000984 J	0.00000792 J	0.00000200 U	0.0000124 UJ	0.00000617 J	0.0000451 J	0.000308	0.00000710 J
FC-B-2	'0-0	9/19/2006	0.000110	0.00000696 J	0.00000299 U	0.00000985 UJ	0.00000185 U	0.0000791 J	0.000438	0.000000270 U
FC-C-1	'0-0	9/19/2006	0.000553	0.00000722 U	0.00000825 U	0.0000397 J	0.00000310 U	0.000212 J	0.000672 J	0.0000402 J
FC-C-2	'0-0	9/19/2006	0.0000716 J	0.00000601 U	0.0000106 U	0.00000945 UJ	0.00000168 U	0.00000130 U	0.000338	0.000000960 U
FC-D-1	'0-0	9/20/2006	0.0000923 J	0.0000104 U	0.00000471 U	0.0000105 J	0.00000109 U	0.0000383 J	0.000307	0.00000167 U
FC-D-2	'0-0	9/20/2006	0.0000714 J	0.00000166 U	0.00000208 U	0.00000758 J	0.0000152 U	0.0000762 J	0.000503	0.00000376 U
FC-E-1	'0-0	9/20/2006	0.0000768 J	0.00000139 U	0.00000235 U	0.0000102 J	0.00000556 U	0.0000363 J	0.000283	0.00000231 U
FC-E-2	'0-0	9/20/2006	0.0000671 J	0.00000635 U	0.00000269 U		0.000000710 U	0.00000298 U	0.000982	0.00000245 U
FC-F-1	'0-0	9/20/2006	0.0000621 J	0.00000680 U	0.000000280 U	0.00000662 J	0.0000455 U	0.0000713 J	0.000532	0.00000289 U
FC-F-2	'0-0	9/20/2006	0.0000980 J	0.00000240 U	0.00000219 U	0.00000893 J	0.00000260 U	0.000255	0.00167	0.00000388 U
MC-A	'0-0	9/19/2006	0.000317	0.00000893 U	0.00000970 U	0.0000704 J	0.00000106 U	0.00000182 U	0.0000957 J	0.00000150 U
MC-A-DUP	'0-0	9/19/2006	0.000264	0.0000109	0.00000706 U	0.0000541 J	0.00000272 U	0.00000137 U	0.000111	0.000000990 U
MC-B	'0-0	9/19/2006	0.000198	0.0000100 U	0.0000100 U	0.0000236 J	0.0000194 U	0.0000731 U	0.0000657 J	0.0000768 U
MC-C	'0-0	9/19/2006	0.0000966 J	0.00000360 U	0.00000418 U	0.0000147 UJ	0.00000144 U	0.000000810 U	0.0000506 J	0.000000660 U
MC-D	'0-0	9/20/2006	0.000240	0.0000101 U	0.00000930 U	0.0000230 J	0.00000149 U	0.00000301 U	0.000200	0.00000245 U
MC-E	'0-0	9/20/2006	0.000375	0.0000159	0.00000811 J	0.0000320 J	0.00000386 U	0.000152	0.000319	0.00000182 U
MC-F	'0-0	9/20/2006	0.000183	0.0000105 U	0.0000105 U	0.0000208 J	0.00000244 U	0.00000244 U	0.00000250 U	0.00000217 U

APPENDIX J-7
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	3,3',4,5-Tetrachlorobiphenyl (PCB 078)	3,3',4,5'-Tetrachlorobiphenyl (PCB 079)	3,3',4-Trichlorobiphenyl (PCB 035)	3,3',5,5'-Tetrachlorobiphenyl (PCB 080)	3,3',5-Trichlorobiphenyl (PCB 036)	3,3'-Dichlorobiphenyl (PCB 011)	3,4,4',5-Tetrachlorobiphenyl (PCB 081)	3,4,4'-Trichlorobiphenyl (PCB 037)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.00000272 U	0.00000249 U	0.0000117 U	0.00000229 U	0.0000107 U	0.000470 UJ	0.00000255 U	0.00000942 U
FC-A-2	'0-0	9/18/2006	0.00000306 U	0.000192	0.0000145 U	0.00000258 U	0.0000134 U	0.000351 UJ	0.00000289 U	0.00119
FC-B-1	'0-0	9/19/2006	0.00000256 U	0.00000235 U	0.0000133 J	0.00000216 U	0.0000230 J	0.000371 UJ	0.00000240 U	0.000424
FC-B-2	'0-0	9/19/2006	0.0000290 J	0.0000635 J	0.00000861 U	0.00000129 U	0.00000793 U	0.000355 UJ	0.0000122 J	0.000488
FC-C-1	'0-0	9/19/2006	0.00000560 U	0.00000513 U	0.0000142 U	0.0000606 J	0.0000131 U	0.000732	0.000152	0.000550 J
FC-C-2	'0-0	9/19/2006	0.00000263 U	0.0000567 J	0.0000100 U	0.00000222 U	0.00000921 U	0.000373 UJ	0.00000276 U	0.000332
FC-D-1	'0-0	9/20/2006	0.00000252 U	0.00000231 U	0.0000103 U	0.00000212 U	0.00000944 U	0.000560	0.00000250 U	0.000479
FC-D-2	'0-0	9/20/2006	0.00000216 U	0.0000801 J	0.00000290 U	0.00000182 U	0.00000267 U	0.000678	0.00000231 U	0.000489
FC-E-1	'0-0	9/20/2006	0.00000364 U	0.0000512 J	0.00000841 U	0.00000306 U	0.00000775 U	0.000395	0.00000374 U	0.000375
FC-E-2	'0-0	9/20/2006	0.00000279 U	0.00000255 U	0.00000882 U	0.00000234 U	0.00000812 U	0.00110	0.00000269 U	0.000685
FC-F-1	'0-0	9/20/2006	0.00000216 U	0.0000974 J	0.0000256 J	0.0000314 J	0.0000781	0.000453	0.0000782 J	0.000391
FC-F-2	'0-0	9/20/2006	0.00000511 U	0.000372	0.000000830 U	0.0000653 J	0.000000770 U	0.00123	0.000221	0.000901
MC-A	'0-0	9/19/2006	0.00000244 U	0.000125	0.0000172 U	0.00000206 U	0.0000159 U	0.000157 UJ	0.00000224 U	0.0000644 J
MC-A-DUP	'0-0	9/19/2006	0.00000307 U	0.00000281 U	0.0000165 U	0.00000259 U	0.0000152 U	0.000168 UJ	0.00000307 U	0.0000797 J
MC-B	'0-0	9/19/2006	0.0000159 U	0.0000154 J	0.00000643 U	0.0000134 U	0.00000592 U	0.000155 UJ	0.0000127 U	0.0000352 J
MC-C	'0-0	9/19/2006	0.00000125 U	0.0000249 J	0.00000455 U	0.00000105 U	0.00000419 U	0.000136 UJ	0.00000109 U	0.0000294 J
MC-D	'0-0	9/20/2006	0.00000209 U	0.000142	0.0000107 U	0.00000176 U	0.00000988 U	0.000181 UJ	0.00000195 U	0.000134
MC-E	'0-0	9/20/2006	0.00000635 U	0.00000581 U	0.0000889	0.00000534 U	0.000315	0.000289 UJ	0.000189	0.000203
MC-F	'0-0	9/20/2006	0.00000308 U	0.00000282 U	0.0000113 U	0.00000259 U	0.0000104 U	0.000135 UJ	0.00000270 U	0.000101 J

APPENDIX J-7
DETECTED CONSTITUENTS IN SOILS
PCBs
LCP Chemicals, Inc. Superfund Site, Linden, New Jersey

Sample ID	Sample Interval	Sample Date	3,4,5-Trichlorobiphenyl (PCB 038)	3,4',5-Trichlorobiphenyl (PCB 039)	3,4-Dichlorobiphenyl (PCB 012:(12+13))	3,5-Dichlorobiphenyl (PCB 014)	3-Chlorobiphenyl (PCB 002)	4,4'-Dichlorobiphenyl (PCB 015)	4-Chlorobiphenyl (PCB 003)	Decachlorobiphenyl (PCB 209)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FC-A-1	'0-0	9/18/2006	0.0000112 U	0.00000990 U	0.0000544	0.00000245 U	0.00000589 UJ	0.000645	0.0000215 UJ	0.00124 J
FC-A-2	'0-0	9/18/2006	0.0000139 U	0.0000123 U	0.0000479	0.00000371 U	0.00000451 UJ	0.000858	0.0000190 UJ	0.00184 J
FC-B-1	'0-0	9/19/2006	0.00000639 U	0.0000126 J	0.0000300	0.00000209 U	0.00000415	0.000379	0.0000114 UJ	0.000795 J
FC-B-2	'0-0	9/19/2006	0.00000826 U	0.00000730 U	0.0000255	0.00000314 U	0.00000339	0.000359	0.0000102 UJ	0.000633 J
FC-C-1	'0-0	9/19/2006	0.0000136 U	0.0000120 U	0.00000763 U	0.00000759 U	0.00000212 U	0.000342	0.00000665 UJ	0.00158 J
FC-C-2	'0-0	9/19/2006	0.00000959 U	0.00000848 U	0.00000636 U	0.00000632 U	0.00000195 U	0.000309	0.0000101 UJ	0.000494 J
FC-D-1	'0-0	9/20/2006	0.00000983 U	0.00000870 U	0.0000469	0.0000113 U	0.00000162 U	0.000367	0.00000901 J	0.000474 J
FC-D-2	'0-0	9/20/2006	0.00000278 U	0.00000246 U	0.00000175 U	0.00000174 U	0.00000385	0.000378	0.00000745 J	0.000851 J
FC-E-1	'0-0	9/20/2006	0.00000807 U	0.00000714 U	0.00000147 U	0.00000146 U	0.00000188 U	0.000259	0.00000705 J	0.000401 J
FC-E-2	'0-0	9/20/2006	0.00000845 U	0.00000748 U	0.00000671 U	0.00000667 U	0.00000218 U	0.000392 J		0.000423 J
FC-F-1	'0-0	9/20/2006	0.00000319 U	0.00000282 U	0.00000719 U	0.00000715 U	0.00000199 U	0.000311	0.00000246 UJ	0.000255 J
FC-F-2	'0-0	9/20/2006	0.000000800 U	0.000000710 U	0.00000254 U	0.00000252 U	0.000000350 U	0.000484	0.00000696 J	0.00116 J
MC-A	'0-0	9/19/2006	0.0000165 U	0.0000146 U	0.00000944 U	0.00000939 U	0.00000542	0.0000604 J	0.0000197 UJ	0.000644 J
MC-A-DUP	'0-0	9/19/2006	0.0000158 U	0.0000140 U	0.00000617 J	0.00000530 U	0.00000443	0.0000489 J	0.0000168 UJ	0.000590 J
MC-B	'0-0	9/19/2006	0.00000617 U	0.00000546 U	0.0000200 U	0.0000200 U	0.00000200 U	0.0000412 U	0.00000761 UJ	0.000385
MC-C	'0-0	9/19/2006	0.00000436 U	0.00000386 U	0.00000381 U	0.00000379 U	0.00000245	0.0000216 J	0.00000526 UJ	0.000185 J
MC-D	'0-0	9/20/2006	0.0000103 U	0.00000910 U	0.0000117 U	0.0000116 U	0.00000202 U	0.0000681 J	0.00000273 U	0.000504
MC-E	'0-0	9/20/2006	0.000322	0.000186	0.00000132 U	0.00000131 U	0.00000647	0.0000791 J	0.0000128 J	0.000993 J
MC-F	'0-0	9/20/2006	0.0000109 U	0.00000961 U	0.0000168 U	0.0000167 U	0.00000143 U	0.0000146 U	0.00000662 J	0.000410 J

Appendix K: Environmental Database (CD-ROM)

Remedial Investigation Report
LCP Chemicals, Inc. Superfund Site
Linden, New Jersey
Volume IV of V
Appendices L through N

Prepared for
ISP Environmental Services, Inc.
500 Hercules Road
Wilmington, Delaware 19808-1599

July 2013

Project Number: 135451.201

Brown AND Caldwell
2 Park Way, Suite 2A
Upper Saddle River, New Jersey 07458

Appendix L: Sediment Toxicity Testing Report

BROWN & CALDWELL
LCP CHEMICALS, INC. SUPERFUND SITE
SEDIMENT TOXICITY TESTING

Contents

Section	Page
Introduction	2
Materials and Methods	2
Results	6

Tables

I.	Summary of Conditions for *Leptocheirus plumulosus* Toxicity Test	5
II:	Percent survival of *L. plumulosus* by replicate chamber and location	7
III:	Mean dry weight (mg) of *L. plumulosus* by replicate chamber and location	7

Appendices

A. Raw data for *Leptocheirus plumulosus* 10-day survival and growth test

B. Statistical data for *Leptocheirus plumulosus* 10-day survival and growth test

C. Chain of Custody Documentation

BROWN & CALDWELL
LCP CHEMICALS, INC. SUPERFUND SITE
SEDIMENT TOXICITY TESTING

INTRODUCTION

During the month of October, 2006 samples were collected from the LCP Chemicals, Inc. Superfund site in Linden, New Jersey as described in the *Brown and Caldwell Supplemental Work Plan: Sediment Toxicity Testing (South Branch Creek) Phase II Remedial Investigation LCP Chemicals, Inc. Superfund Site,* dated September 2006. These sediment samples were used to perform acute toxicity tests to determine if the tested matrices represent a significant threat to potential receptor organisms.

The sediment samples from the site were evaluated for toxicity using a 10-day solid phase exposure using the saltwater amphipod *Leptocheirus plumulosus*[1]. Following the exposure period, surviving test organisms from the sediment samples collected at the site were compared to control and reference sediments tested under similar conditions using a water of known environmental quality, laboratory prepared artificial salt water (ASW). The endpoints used for determination of an impact were mortality, measured as mean survival and growth, measured as mean dry weight.

MATERIALS AND METHODS

Sediment samples were collected from the LCP Chemicals, Inc. Superfund site in Linden, New Jersey, as described above. These sites were selected to represent an area that has been impacted by the facility's operations (South Branch Creek) and an off-site Reference Area, which would likely not have been affected. The Reference Area was Old Place Creek, an Arthur Kill tidal inlet in Staten Island, New York. Three samples were collected from South Branch Creek. Two of these were found to emit mercury vapors upon agitation and therefore could not be tested safely. After discussion with and approval by EPA, these samples were properly disposed along with other investigation-derived waste. The sediment toxicity program proceeded with one sample from South Branch Creek and one from the Old Place Creek (the reference sediment).

Preparation of sediment samples for testing

The sediment samples collected were transported to the laboratory in two-gallon HDPE containers on ice. Prior to sieving, each sample was monitored for mercury vapor using a Jerome 4100 mercury analyzer. Of the four samples collected, two were found to be producing mercury vapors at levels that precluded their use in the sediment toxicity analysis. These samples were returned to the site unused. The remaining two samples sieved using a #18 mesh sieve (1000 μm) to remove large debris and indigenous species

that may have either competed with or potentially preyed upon the test organisms. The sieved portion of the sediment was then transferred to new, clean 1-gallon HDPE containers, sealed and stored at 0-4 °C until used for testing on November 3, 2006.

Control sediment used for the test was provided by the culture facility that provided the test organisms. It was collected from Olds House Creek, a tributary to the Chesapeake Bay near Selden, Virginia in October 2006. The control sediment was sieved and all material between 500 and 335 µm used for culture and testing. Prior to testing it was stored in the same manner as the sediment samples from the LCP site.

Test organisms

Study amphipods (*Leptocheirus plumulosus*) were obtained from stock cultures maintained by ABS, Inc. of Fort Collins, CO. During the short holding period prior to test initiation, the organisms were held under conditions similar to those that they would encounter during the test (see Table I). Amphipods were fed once daily prior to testing using crushed flake fish food.[1]. Test organisms chosen for testing were 2 to 4 mm in length, collected on 500 µm sieve after passing through a 710 µm sieve.

Experimental procedures

The entire sediment exposure series for this project consisted of one sediment samples from the LCP Chemicals, Inc., Superfund site, one regional reference sample, and control sediment. Test chambers (1000 mL tall form borosilicate glass beakers) were filled with 200 mL of sediment. Each then had the sediment layer covered with 800 mL of ASW. Each treatment had four replicate chambers. All of the test chambers were allowed to settle for 24 hours prior to test initiation.

After the settling period, porewater was analyzed for ammonia to ensure levels were low enough to introduce test organisms. Overlying water was then siphoned off and fresh laboratory water was introduced, using a round HDPE disk suspended over the sediment to deflect the water flow and minimize disturbance to the sediment. At this time alkalinity, conductivity, dissolved oxygen, pH, salinity and temperature were measured for the overlying water for each test sample and the control.

The exposure period began by placing 20 randomly selected test organisms into intermediate containers prior to introduction into each test chamber, to insure the correct number was added to each chamber. Care was taken to ensure that the organisms were released beneath the surface of the overlying water to keep air bubbles from forcing the organisms to the surface. Test conditions are summarized in Table I.

Each day during the exposure period observations were carried out in each chamber to determine the number of organisms dead, swimming, on the surface of the sediment or on the surface of the water. Dissolved oxygen, pH, salinity and temperature were also

measured. The overlying water was aerated during the entire 10-day exposure with an oil free air source to maintain acceptable dissolved oxygen levels. The aeration was introduced to each chamber via a Pasteur pipette attached to the inside of the test chamber approximately one inch beneath the water surface, to minimize sediment disturbance. The overlying water was not changed during the 10-day exposure, and the test organisms were not fed.

At the end of the 10-day exposure the final alkalinity, ammonia, conductivity, dissolved oxygen, pH, salinity and temperature were measured, and the test chambers were prepared for the removal of test organisms. Each chamber was gently stirred using a pipette to suspend the sediment in the overlying water. This slurry was then poured into a #60 mesh sieve (250 µm) and rinsed in a shallow pan of ASW to remove the finer grains of the sediment. The remaining contents of the sieve were placed into a second shallow pan of ASW, placed over a light table, and carefully sorted to find the surviving test organisms in each of the four replicates for each site. All surviving amphipods for each chamber were transferred to a 30 mL soufflé cup for live count verification and preparation for weight analysis.

When all test chambers had been sorted and the number of survivors verified, 0.5 mL of ethanol was added to each soufflé cup to dispatch the organisms. They were then transferred to a previously dried and tared aluminum pan and placed into an oven to dry at 105° C for a minimum of six hours. Upon removal from the oven, the pans were placed into a desiccator to cool and then were measured to the nearest 0.01 mg.

Data analysis

Data analysis was performed following procedures published by the USEPA[1] using the ToxCalc™ v5.0.23F data analysis software. Survival data were arcsine squareroot transformed, tested for normality and then tested for homogeneity of variances. Due to the small sample size, a two-sample test was used to determine significance. Growth data was not transformed as the data set was found to be normally distributed and had homogeneous variance. A two-sample test was also used to analyze growth due to the small sample size.

All raw data sheets are located in Appendix A.

TABLE I: Summary of Conditions for *Leptocheirus plumulosus* Toxicity Test

1.	Test type:	Whole sediment, static non-renewal
2.	Temperature:	25.0 +/- 1.0° C
3.	Light quality;	Wide-spectrum fluorescent illumination
4.	Light intensity:	50 - 100 foot-candles
5.	Photoperiod:	16 hours light, 08 hours dark
6.	Test chamber size:	1000 mL high form borosilicate glass beakers
7.	Sediment volume:	200 mL / replicate
8.	Overlying water volume:	800 mL / replicate
9.	Renewal:	None
10.	Size of test organisms:	2 to 4 mm in length, retained on a 500 µm sieve
11.	Number organisms / container:	20
12.	Replicates:	4
13.	Feeding:	None
14.	Aeration:	Continuous @ ~ 100 bubbles / min.
15.	Overlying water:	Artificial Salt Water
16.	Test chamber cleaning:	None
17.	Overlying water quality:	Dissolved oxygen, pH, salinity and temperature daily; alkalinity, ammonia, conductivity and hardness at beginning and end of test
18.	Test duration:	10 days
19.	Endpoints:	Survival and growth (mean dry weight)
20.	Test acceptability:	Minimum control survival 90 %

RESULTS

Effects on Survival

For the first of the two endpoints used, survival, the data from the test location was compared to the reference site. The control exposure conducted concurrently was used to establish satisfactory survival for the test organisms and were not used for sample analysis.

Arcsine squareroot transformed data were first analyzed for normality using the Shapiro-Wilk's Test. The data were found to be normal in distribution. Homogeneity of the variances were then tested using an F-Test and variances were found to be homogeneous. The Wilcoxon Two-Sample Test was performed to determine if the test sample was found to be impacted relative to the reference location.

The survival of the control exposures was 95%, which exceeded the minimum requirement of 90% for the method. The survival of the Reference Creek sample met the required 90% survival. Locations A-3 from the LCP site had survival of 56.3%, which was determined to be statistically different from the Reference Creek value. The survival of the test organisms is summarized in Table II by location and replicate.

Effects on Growth

For the second of the two endpoints used. growth, measured as mean dry weight, the data from the test location was compared to the reference site. The control exposure conducted concurrently was used to establish satisfactory growth for the test organisms and was not used for sample analysis.

Data were first analyzed for normality using the Shapiro-Wilk's Test. The data were found to be normal in distribution. Homogeneity of the variances was then tested using an F-Test and variances were found to be homogeneous. The Wilcoxon Two-Sample Test was performed to determine if the test sample was found to be impacted relative to the reference location.

Mean dry weight analysis of test organisms at the end of the 10-day exposure found that the Reference Creek sample and the A-3 sample both exhibited larger mean dry weights than did the control exposure. Further statistical analysis was not necessary. The mean dry weight data should be viewed with caution as the survival endpoint indicates a significant difference between the reference site and the sample collected at the LCP site. It should be noted that both the reference and test samples contained significantly higher amounts of organic matter, which likely contributed to the larger average size. Also, in the test sample there fewer individuals surviving, which may have led to less competition among survivors for food, and/or a reduction is stress relative to the loading of test organisms. The mean dry weights of the test organisms are summarized in Table III by location and replicate.

All statistical analysis is located in Appendix B.

Table II: Percent survival of *L. plumulosus* by replicate chamber and location

	SAMPLE LOCATION		
Rep	Control	Reference Creek	A-3
A	95	95	55
B	95	90	35
C	90	90	65
D	100	85	70
Mean Survival	95	90	56.3
Statistically Different from Reference Creek?		-	**YES**

Table III: Mean dry weight (mg) of *L. plumulosus* by replicate chamber and location

	SAMPLE LOCATION		
Rep	Control	Reference Creek	A-3
A	0.2495	0.2963	0.2927
B	0.1721	0.2406	0.3443
C	0.1806	0.1339	0.2377
D	0.1335	0.2888	0.2936
Mean Dry Weight	0.1839	0.2399	0.2921
Statistically Different from Reference Creek?		-	**No**

[1] **C.E. Schlekat**, C. E. Methods for Assessing the Toxicity of Sediment-associated Contaminants with Estuarine and Marine Amphipods Office of Research and Development U.S. Environmental Protection Agency Narragansett. Rhode Island 02882, EPA/600R-94/025, June 1994

APPENDIX A

RAW DATA FOR *Leptocheirus plumulosus* 10 DAY SURVIVAL AND GROWTH TEST

Client/Toxicant: 214
Project Number: 01-01
Species: L. plumulosus

Beginning Date & Time: 11-3-06 1800
Ending Date & Time: 11-13-06 1700
Hatch Date: 10/4-11/06

Sediment Test
American Aquatic Testing, Inc.
Observations / Live Count

Conc.	Rep	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10 Observ.	Day 10 Final Live Count
Control	A	N	N	N	1F	N	N	N	N	N	N	19
	B	N	N	N	N	N	N	N	N	N	N	19
	C	N	N	N	1D	N	N	N	N	N	N	18
	D	N	N	N	N	N	N	N	N	N	N	20
	~~E~~											
	~~F~~											
	~~G~~											
	~~H~~											
Reference Creek	A	N	N	N	N	N	N	2D	N	N	N	19
	B	N	N	N	N	N	N	1D	N	N	N	18
	C	N	N	N	N	N	N	N	N	N	2D	18
	D	N	N	N	N	N	N	N	N	N	1D	17
	~~E~~											
	~~F~~											
	~~G~~											
	~~H~~											
A3	A	2M	N	N	~~N~~ 1	7D	1D	4D	N	N	N	11
	B	N	N	N	N	9D	3D	1D	N	N	N	~~6~~ 2
	C	N	N	N	4D	3D	1D	2D	N	N	N	12
	D	N	N	N	3D	1D	2D	4D	N	N	3D	14
	~~E~~											
	~~F~~											
	~~G~~											
	~~H~~											
	A											
	B											
	C											
	D											
	E											
	F											
	G											
	H											
	A											
	B											
	C											
	D											
	E											
	F											
	G											
	H											
	Intials	MKP	MKP	MKP	MKP	TAP	TAP	KMW TAP	MKP	MKP	MKP	TAP
	Date	11/4	11/5	11/6	11/7	11/8	11/9	11/10	11/11	11/12	11/13	11/14

Comments: (1) 4D MKP 11/7 (2) 7 - TAP 11/13

Key: D=dead, W=on water surface, M=swimming, F=on sediment surface, N=no observations

FWSEDOBS.wk4

Client/Toxicant: 214
Project Number: 01-01
Species: L. plumulosus

Beginning Date & Time: 11-3-06 1800
Ending Date & Time: 11-13-06 1700
Hatch Date: 10/4-11/06

American Aquatic Testing, Inc.
Weight Data

Conc.	Rep	Pan #	A weight of boat (g)	B weight of boat & org. (g)	(B-A)*1000=C dry weight of organisms (mg)	D # of surviving org.	C/D mean dry weight (mg)	C/E IC_{25} & NOEC calc. weight (mg)
Control	A	1	0.00925	0.01399	4.74	19	0.249	
	B	2	0.00908	0.01235	3.27	19	0.172	
	C	3	0.00912	0.01237	3.25	18	0.181	
	D	4	0.00939	0.01206	2.67	20	0.134	
	~~E~~							
	~~F~~							
	~~G~~							
	~~H~~							
Reference Creek	A	5	0.00920	0.01483	5.63	19	0.296	
	B	6	0.00929	0.01362	4.33	18	0.241	
	C	7	0.01000	0.01241	2.41	18	0.134	
	D	8	0.00894	0.01385	4.91	17	0.289	
	~~E~~							
	~~F~~							
	~~G~~							
	~~H~~							
A3	A	9	0.00946	~~0.01385~~ (1)	3.22	11	0.293	
	B	10	0.00959	~~0.01268~~ (2)	2.41	7	0.344	
	C	11	0.00944	~~0.01200~~ (3)	3.09	13	0.238	
	D	12	0.00987	0.01398	4.11	14	0.294	
	~~E~~							
	~~F~~							
	~~G~~							
	~~H~~							
	A							
	B							
	C							
	D							
	E							
	F							
	G							
	H							
	Initials		TAP	TAP	thd	TAP	thd	
	Date		11/13	11/14	11/14/06	11/13	11/14/06	

E = Original number of organisms at test initiation, adjusted for losses.

Observations: (1) 0.01268 (2) 0.01200 (3) 0.01253 TAP 11/14

BasicWT.wk3

Client/Toxicant: 214
Job Number: 01-01
Species: L. plumulosus

Beginning Date & Time: 11-3-06 1800
Ending Date & Time: 11-13-06 1700

Freshwater Sediment Test
American Aquatic Testing, Inc.,
Physical / Chemical Parameters

Parameter	Concentration	Day 0	1	2	3	4	5	6	7	8	9	10
TEMP (C)	Control	25.0	25.0	24.5	24.5	24.5	24.5	25.0	24.5	24.0	24.0	24.5
	Ref. Creek	25.0	25.0	24.5	24.5	24.5	24.5	24.5	24.5	24.0	24.0	24.5
	A3	25.0	25.0	24.5	24.5	24.5	24.5	24.5	24.5	24.0	24.0	24.5
Dissolved Oxygen (mg/L)	Control	6.5	6.8	7.0	6.8	6.0	~~6.3~~ ①	6.1	6.6	6.8	6.7	6.7
	Ref. Creek	6.6	6.3	7.0	6.9	5.9	6.4	6.7	6.9	7.0	6.7	6.7
	A3	6.4	5.0	6.9	6.9	5.9	6.0	6.9	6.5	6.8	6.4	6.7
pH	Control	8.2	8.0	8.0	8.0	7.8	7.9	7.6	7.5	7.6	7.8	7.7
	Ref. Creek	8.2	8.0	8.1	8.1	8.2	8.0	7.9	8.0	8.1	8.0	7.8
	A3	8.3	7.9	8.0	8.1	8.0	8.0	8.2	8.2	8.2	8.2	8.3
	Initials	MKP	MKP	MKP	MKP	MKP	MKP	MKP	MKP	MKP	MKP	MKP
	Date	11/3	11/4	11/5	11/6	11/7	11/8	11/9	11/10	11/11	11/12	11/13

Concentration	Cond. (umhos) Initial	Cond. (umhos) Final	Alkalinity (mg/L) Initial	Alkalinity (mg/L) Final	Hardness (mg/L) Initial	Hardness (mg/L) Final	Ammonia (mg/L) Initial	Ammonia (mg/L) Final
Control	32340	34890	120	60			1.17	0.00
Ref. Creek	32400	35350	110	70			0.34	0.00
A3	32350	34650	120	150			0.39	0.00
Initials	MKP	TAP	MKP	MKP			MKP	MKP
Date	11/3	11/13	11/3	11/13			11/9	11/13

Comments:
① 6.3 MKP 11/8

FWSEDPAR.wk3

R2-0005755

Client/Toxicant: 214
Job Number: 01-01
Species: L. plumulosus

Beginning Date & Time: 11-3-06 1800
Ending Date & Time: 11-13-06 1700

Freshwater Sediment Test
American Aquatic Testing, Inc.,
Physical / Chemical Parameters

Parameter	Concentration	Day 0	1	2	3	4	5	6	7	8	9	10
Salinity (ppt)	Control	20.1	21.6	22.6	23.8	20.2	20.0	20.2	20.0	21.1	21.0	21.8
	Ref. Creek	20.1	21.9	23.0	24.4	20.0	21.0	21.4	20.2	21.0	21.2	22.0
	A3	20.1	21.1	21.9	22.7	20.1	20.4	20.3	20.0	20.4	20.6	21.6
	Control											
	Control											
	Initials	MKP	MKP	MKP	MKP	MKP	MKP	MKP	MKP/JRP	MKP	MKP	MKP
	Date	11/3	11/4	11/5	11/6	11/7	11/8	11/9	11/10	11/11	11/12	11/13

Concentration	Cond. (umhos) Initial	Cond. (umhos) Final	Alkalinity (mg/L) Initial	Alkalinity (mg/L) Final	Hardness (mg/L) Initial	Hardness (mg/L) Final	Ammonia (mg/L) Initial	Ammonia (mg/L) Final
Control								
Initials								
Date								

Comments:

FWSEDPAR.wk3

R2-0005756

APPENDIX B

STATISTICAL DATA FOR *Leptocheirus plumulosus* 10 DAY SURVIVAL AND GROWTH TEST

Leptocheirus 10 - day survival and growth test - survival

Start Date:	11/3/2006	Test ID:	2140101Lp	Sample ID:	Brown & Caldwell
End Date:	11/13/2006	Lab ID:	American Aquatic	Sample Type:	SEDIMENT
Sample Date:		Protocol:	EPAM 94-EPA Marine	Test Species:	LP - Leptocheirus plumulosus
Comments:					

Conc-%	1	2	3	4
Control	0.9500	0.9500	0.9000	1.0000
Ref. Creek	0.9500	0.9000	0.9000	0.8500
A3	0.5500	0.3500	0.6500	0.7000

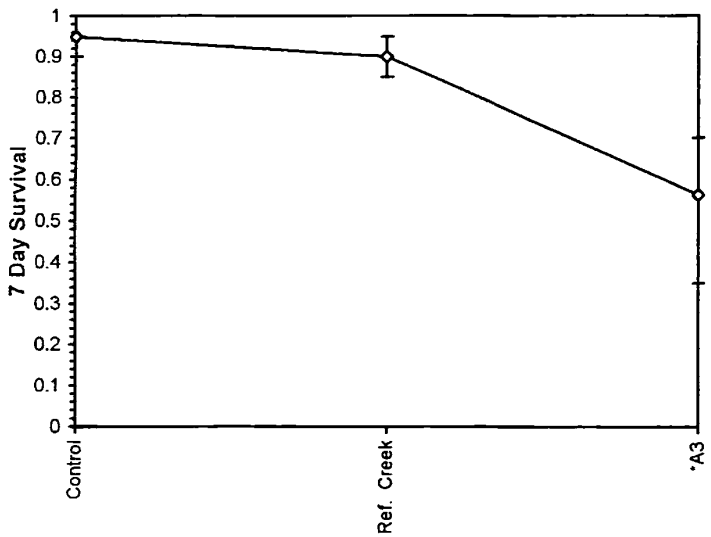
			Transform: Arcsin Square Root					Rank	1-Tailed
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical
Control	0.9500	1.0556	1.3496	1.2490	1.4588	6.354	4		
Ref. Creek	0.9000	1.0000	1.2541	1.1731	1.3453	5.625	4		
*A3	0.5625	0.6250	0.8494	0.6331	0.9912	18.603	4	10.00	11.00

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.92999	0.749	-0.8329	0.86046
F-Test indicates equal variances (p = 0.22)	5.01778	47.4683		
The control means are not significantly different (p = 0.14)	1.71962	2.44691		

Hypothesis Test (1-tail, 0.05)

Wilcoxon Two-Sample Test indicates significant differences
Treatments vs Ref. Creek

Dose-Response Plot



ToxCalc v5.0.23

Reviewed by:

R2-0005758

Leptocheirus 10 - day survival and growth test - growth

Start Date:	11/3/2006	Test ID:	2140101Lp	Sample ID:	Brown & Caldwell
End Date:	11/13/2006	Lab ID:	American Aquatic	Sample Type:	SEDIMENT
Sample Date:		Protocol:	EPAM 94-EPA Marine	Test Species:	LP - Leptocheirus plumulosus
Comments:					

Conc-%	1	2	3	4
Control	0.2495	0.1721	0.1806	0.1335
Ref. Creek	0.2963	0.2406	0.1339	0.2888
A3	0.2927	0.3443	0.2377	0.2936

			Transform: Untransformed					Rank	1-Tailed
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical
Control	0.1839	0.7666	0.1839	0.1335	0.2495	26.247	4		
Ref. Creek	0.2399	1.0000	0.2399	0.1339	0.2963	31.208	4		
A3	0.2921	1.2175	0.2921	0.2377	0.3443	14.906	4	21.00	11.00

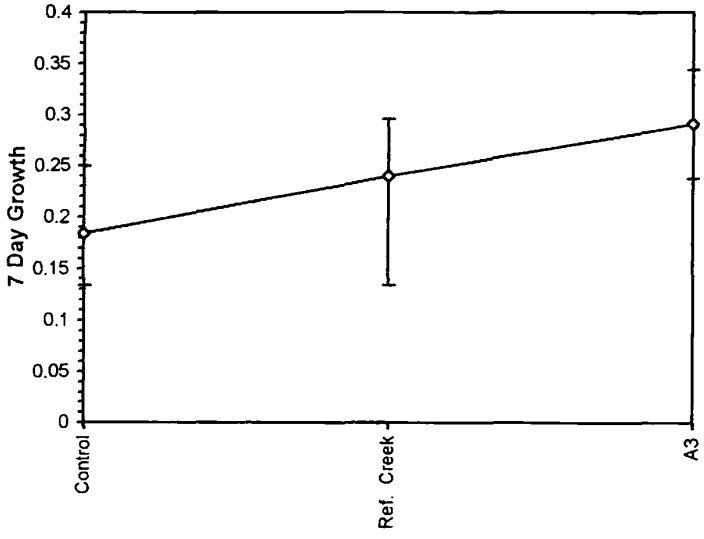
Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.87714	0.749	-0.9542	0.35341
F-Test indicates equal variances (p = 0.40)	2.95722	47.4683		
The control means are not significantly different (p = 0.26)	1.25702	2.44691		

Hypothesis Test (1-tail, 0.05)

Wilcoxon Two-Sample Test indicates no significant differences

Treatments vs Ref. Creek

Dose-Response Plot



ToxCalc v5.0.23

Reviewed by:

R2-0005759

APPENDIX C

CHAIN OF CUSTODY DOCUMENTATION

AMERICAN AQUATIC TESTING, INC.

CHAIN OF CUSTODY

890 North Graham St.
ALLENTOWN, PA 18109
610 434 9015

Job #: 214-01-01

Client: BLOUNT CALDWELL
Address: ISP LINDEN, NJ
Phone #:

Client Contact: SEAN FENTE HARTOG

Sample Disposal: Return to client [ ] Lab disposal [X]

	Initial Chemistry Upon Arrival @ Laboratory						SAMPLE INFORMATION					Toxicity Testing Requested			
Sample #	Temp °C	Dis. O_2	pH	Alk. mg/L	Hard. mg/L	Cl- mg/L	Sample Identification	Sample Type C = Comp G=Grab	Sample Volume	Sample Date	Sample Time	Acute	Chronic	Sediment	Other
01	4.0						A3	C	2GAL	10/09/06	1343			X	
02	4.0						C1 (2)	↓	↓	10/26/06	1440			X	
03	4.0						E1 (2)	↓	↓	10/26/06	1357			X	
04	4.0						REF. CREEK	↓	↓	~~09/29/06~~ (1)	1240				

Samples were:
1. Collected by AAT personnel [ ] Client personnel [X]
2. Transported on ice? Yes [X] No [ ]
3. Received with in holding time? Yes [X] No [ ]
4. Sample matrix is: Liquid [ ] Sediment [X] Soil [ ] Other [ ]

CUSTODY INFORMATION									Lab Use
Sample #	Relinquished by:	Received by:	Date	Time	Relinquished by:	Received for Lab:	Date	Time	ISTN#
01	[signature]	[signature]	10/11/06	1100	[signature]	[signature]	10/11/06	1800	06817
02	↓	↓	↓	↓	↓	↓	↓	↓	06818
03									06819
04									06820

Special Instructions: Dilution water collection date(s)

(1) 10/02/06 (2) RETURNED TO CLIENT UNTESTED

Will ammonia be analyzed on these samples? Yes (No)
Will additional parameters be analyzed on these samples? Yes (No)

Appendix M: Regional Studies

REGIONAL STUDIES
OLD PLACE CREEK
LCP CHEMICALS, INC. SUPERFUND SITE
LINDEN, NEW JERSEY

Prepared for

ISP Environmental Services Inc.

1361 Alps Road

Wayne, New Jersey 07470

September 2008

Project Number: 135451.201

BROWN AND CALDWELL

110 Commerce Drive

Allendale, New Jersey 07401

TABLE OF CONTENTS

ATTACHMENTS I

LIST OF TABLES II

LIST OF FIGURES III

1. INTRODUCTION 1-1
   1.1 Site Description 1-1
   1.2 Site Investigation 1-1

2. FIELD INVESTIGATION PROGRAM 2-1
   2.1 Surface Water Samples 2-1
   2.2 Sediment Samples 2-1
   2.3 Biota Samples 2-1

3. PHYSICAL CHARACTERISTICS INVESTIGATION RESULTS 3-1
   3.1 Wetlands and Ecology 3-1
   3.2 Sediment 3-1
   3.3 Surface Water 3-1

4. NATURE AND EXTENT OF CONTAMINATION 4-1
   4.1 Surface Water 4-1
   4.2 Sediment 4-1
   4.3 Biota 4-3

5. CONCLUSIONS 5-1

6. REFERENCES 6-1

ATTACHMENTS

Attachment 1 Ecological Assessment Report
Attachment 2 Tabular Summary of All Analytical Data

LIST OF TABLES

Table N-1a Surface Water Sample Summary
Table N-1b Sediment Sample Summary
Table N-1c Biota Sample Summary
Table N-2 Descriptive Statistics: Surface Water Samples
Table N-3 Methyl Mercury in Surface Water
Table N-4 Descriptive Statistics: Sediment Samples
Table N-5 Chemical Concentrations in Sediment by Depth
Table N-6a Sediment Results Exceeding Effects Range Low
Table N-6b Sediment Results Exceeding Effects Range Median
Table N-7 Methyl Mercury in Sediment
Table N-8 Summary of AVS and SEM in Sediment
Table N-9 Summary of PCBs in Sediment
Table N-10 Summary of PAHs in Sediment
Table N-11 Summary of PCDD/PCDF (Dioxin and Furan) Results and TEQs in Sediment
Table N-12a Descriptive Statistics: Fish Tissue Samples (Undepurated)
Table N-12a Descriptive Statistics: Crab Tissue Samples (Undepurated)
Table N-13a Summary of Methyl Mercury and Mercury in Fish (Undepurated)
Table N-13b Summary of Methyl Mercury and Mercury in Crab (Undepurated)
Table N-14a Biota-Sediment Accumulation Factors in Fish Tissue (Undepurated)
Table N-14b Biota-Sediment Accumulation Factors in Crab Tissue (Undepurated)

LIST OF FIGURES

Figure N-1 Sample Location Map
Figure N-2a Total Mercury in Sediments 0-0.5 ft Depth
Figure N-2b Total Mercury in Sediments 0.5-1 ft Depth
Figure N-2c Total Mercury in Sediments 1-1.5 ft Depth
Figure N-2d Total Mercury in Sediments 1.5-2 ft Depth
Figure N-3a Total Arsenic in Sediments 0-0.5 ft Depth
Figure N-3b Total Arsenic in Sediments 0.5-1 ft Depth
Figure N-3c Total Arsenic in Sediments 1-1.5 ft Depth
Figure N-3d Total Arsenic in Sediments 1.5-2 ft Depth
Figure N-4a Total Aroclors in Sediments 0-0.5 ft Depth
Figure N-4b Total Aroclors in Sediments 0.5-1 ft Depth
Figure N-4c Total Aroclors in Sediments 1-1.5 ft Depth
Figure N-4d Total Aroclors in Sediments 1.5-2 ft Depth
Figure N-5a Total PAHs in Sediments 0-0.5 ft Depth
Figure N-5b Total PAHs in Sediments 0.5-1 ft Depth
Figure N-5c Total PAHs in Sediments 1-1.5 ft Depth
Figure N-5d Total PAHs in Sediments 1.5-2 ft Depth
Figure N-6a Total Carcinogenic PAH in Sediments 0-0.5 ft Depth
Figure N-6b Total Carcinogenic PAHs in Sediments 0.5-1 ft Depth
Figure N-6c Total Carcinogenic PAHs in Sediments 1-1.5 ft Depth
Figure N-6d Total Carcinogenic PAHs in Sediments 1.5-2 ft Depth
Figure N-7a BAP CPAH Equivalent in Sediments 0-0.5 ft Depth
Figure N-7b BAP CPAH Equivalent in Sediments 0.5-1 ft Depth
Figure N-7c BAP CPAH Equivalent in Sediments 1-1.5 ft Depth
Figure N-7d BAP CPAH Equivalent in Sediments 1.5-2 ft Depth
Figure N-8 2,3,7,8-TCDD TEQ in Sediments 0-0.5 ft Depth
Figure N-9a Total Mercury in Fish Tissue
Figure N-9b Total Mercury in Crab Tissue
Figure N-10a Total Arsenic in Fish Tissue
Figure N-10b Total Arsenic in Crab Tissue

1. INTRODUCTION

Regional background conditions were investigated as part of the Phase II Remedial Investigation (RI) performed at the LCP Chemicals Inc., Superfund Site in Linden, New Jersey,. Impacts to site sediment, surface water, and biota were investigated. These background conditions include historic regional land use and the ubiquitous presence of certain chemical constituents. Historic land impacts include the filling of former tidal wetlands with anthropogenic fill of industrial origin, which is characteristic of old industrial properties within the New York Harbor area, and which has resulted in a loss and/or substantial degradation of ecological habitats. Furthermore, anthropogenic fill of industrial origin frequently contains elevated levels of PAHs and certain metals that are associated with industrial combustion products often contained within the fill (e.g., bottom ash). The presence of other chemical constituents is also not uncommon in old industrial fill, including trace levels of PCDDs/PCDFs as a result of industrial and transportation-related air deposition. An investigation of regional conditions was conducted in order to further understand which contamination at the LCP Site results from site related activities as opposed to contamination which is the result of regional industrialization.

Investigation of regional conditions included literature searches, review of publicly available analytical databases (as presented in RI Report Section 2.10), and selection and investigation of a tidal channel close to but not under the influence of the site. This field investigation was performed in a tributary to Old Place Creek. A description and results of this program are presented below.

1.1 Site Description

Old Place Creek is a small estuarine tidal creek that consists of salt marshes and an adjacent successional southern hardwood forest. Located in the Gulfport section of Staten Island, New York, the area is surrounded by heavy industrial development,. It connects directly to the Arthur Kill approximately $^{1}/_{10}$ mile northeast of the Goethals Bridge (Interstate 278). Old Place Creek originates as two separate streams. One originates between South Avenue and Goethals Road North, and flows for ½ mile in the westerly direction. The other, which originates between South Avenue and Glenn Street, flows in a northwesterly direction for ½ mile. They connect where Interstate 278 and NYS Route 440 intersect. The creek then flows adjacent to Interstate 278 for about 1¼ miles in a natural flow path, until it flows under the Interstate and follows its path for the last ¼ mile where it enters the tidal marsh at the Gulfport Reach of the Arthur Kill, 1.8 miles north by northeast of the LCP site. The tributary that was investigated drains into Old Place Creek from the north, approximately 0.15 miles east from the discharge of Old Place Creek into the Arthur Kill.

1.2 Site Investigation

The investigations performed in the tributary to Old Place Creek were comparable to those completed in South Branch Creek as part of the Phase II RI at the Site, utilizing the same sample collection techniques and laboratory analyses. Analytical data were collected for surface water, sediment, fiddler crab tissue, and fish tissue. Field oversight was not provided by USEPA.

2. FIELD INVESTIGATION PROGRAM

2.1 Surface Water Samples

Four (4) surface water samples were collected for laboratory analysis from the tributary to Old Place Creek. The surface water samples were collected along transects evenly spaced along the length of the tributary to Old Place Creek, at the locations shown on Figure N-1. The surface water IDs, along with the specific analytical methods employed, are listed on Table N-1a. Descriptions of the surface water sample collection methods are presented in Appendix B (Field Operations Plan, Field Methods).

2.2 Sediment Samples

Twenty (20) sediment samples were collected throughout the tributary to Old Place Creek. The sediment samples were collected along the same transects as the surface water samples, evenly spaced along the length of the tributary to Old Place Creek at the locations shown on Figure N-1. The sediment samples and the specific analytical methods employed are listed in Table N-1b.

Samples were collected at a depth interval of 0 to 0.5 feet at each location. Additional deeper sediment samples were collected at selected locations at 0.5-foot intervals to a maximum depth of 2.5 feet, as listed in Table N-1b.

The sediment samples were collected by two primary methods. Many of the surficial sediment samples were collected as a grab sample with the use of "Petite Ponar" dredge. Sediment samples collected from locations where depths greater than 0.5 feet were collected using a sediment coring device with polycarbonate tubing. Sediment samples targeted for AVS/SEM analysis were collected with minimum disturbance and exposure to air. Descriptions of the sediment sample collection methods are presented in Appendix B (Field Operations Plan, Field Methods).

2.3 Biota Samples

Biota samples were collected from twelve (12) stations in the tributary to Old Place Creek. The biota samples consisted of four Mummichog (*Fundulus heteroclitus*) tissue samples and eight Fiddler Crab (*Uca spp*) tissue samples. The biota samples and analytical methods are listed in Table N-1c.

Biota samples were collected along transects evenly spaced along the length of the tributary to Old Place Creek as shown on Figure N-1, Mummichog samples were collected at the midpoint of the channel, while Fiddler Crab samples were collected along the near shoreline on both sides of the channel.

Mummichog samples were collected using minnow traps. Fish samples were rinsed, weighed, and measured prior to being shipped to the laboratory. Fiddler crab samples were collected by hand capture and similarly rinsed, weighed, and measured before being sent to the laboratory. Descriptions of the biota sample collection methods are presented in Appendix B (Field Operations Plan, Field Methods).

3. PHYSICAL CHARACTERISTICS INVESTIGATION RESULTS

3.1 Wetlands and Ecology

A Habitat Assessments for the tributary to Old Place Creek was completed by The Chazen Companies (TCC) in 2006. The tributary to Old Place Creek was identified as a tidal inlet and is abutted by southern successional hardwood forest (upland to the north) and Estuarine Dredge Spoils/High Salt Marsh (banks). During the field portion of the Habitat Assessment (performed in September 2006), 17 species of plants, 29 species of wildlife, and three ecological communities were identified within the tributary to Old Place Creek. A more detailed description of this Habitat Assessment can be found in the document entitled "Ecological Assessment Report, LCP Chemicals Reference Channel, Staten Island, Richmond County, New York" (August 2007) (Attachment 1).

3.2 Sediment

The sediment bed in the tributary to Old Place Creek is composed of a wide variation of sediment types, ranging from organic to clay and silt to gravelly sediment. The banks of the Creek are native soil.

3.3 Surface Water

The tributary investigated originates in the north and flows south over 250 feet before discharging into Old Place Creek, approximately 800 feet east from where Old Place Creek drains into the Arthur Kill. The watercourse is a little over 50 feet wide and has a large tidal change from low to high tide (i.e., 4-5 feet), resulting in an almost total drainage of the channel during low tide.

4. NATURE AND EXTENT OF CONTAMINATION

The data of the field investigation performed in August and September 2006 were reported in the document entitled "Phase II Site Characterization Summary Report, LCP Chemicals Superfund Site, Linden, New Jersey" (Brown and Caldwell, September 2007), along with the data from the Phase II RI field investigation for the Site. A complete tabular summary of analytical results is presented in Attachment 2.

4.1 Surface Water

Table N-2 presents a summary of descriptive statistics for contaminants detected in surface water samples collected in Old Place Creek. Both chronic and acute toxicity criteria are available for comparison for surface water for various creek constituents including mercury. The chronic value is referred to as Criteria Continuous Concentration (CCC), which is an estimate of the highest contaminant concentration to which an aquatic community can be exposed indefinitely without an unacceptable effect. The acute value, Criterion Maximum Concentration (CMC), is an estimate of the highest contaminant concentration to which an aquatic community can be exposed briefly without an unacceptable effect. Applicable water quality criteria have not been developed for any of the detected chemicals on an unfiltered basis. USEPA National Recommended Water Quality Criteria (NRWQC) for saltwater exist for dissolved arsenic, cadmium, copper, lead, mercury, selenium and zinc; however, filtered inorganics were not analyzed. In addition, due to the tidal influences and the inherently mobile nature of surface water, the surface water data provide limited information on nature and extent of contamination in the water bodies compared with sediment.

There were no detections of chemical constituents at levels above the saltwater Criteria Continuous Concentration (CCC) or Criteria Maximum Concentration (CMC). Mercury was not detected in surface water by standard method (SW7470A); however low levels of mercury were detected during methyl mercury analysis. Methyl mercury was detected at concentrations of 0.5% of the total mercury concentration or less as presented in Table N-3. There were no detections of organic constituents in surface water in Old Place Creek.

4.2 Sediment

Table N-4 presents a summary of descriptive statistics for the sediment samples for Old Place Creek. Figures N-2a through N-4d show the spatial distribution of mercury, arsenic, and the PCBs Aroclor 1248, Aroclor 1254 and Aroclor 1260 in the sediments from Old Place Creek. A summary of selected metals and PCB results are presented in Table N-5.

There are no promulgated regulatory standards for sediment quality. However, the ER-L and ER-M screening values (Long, *et al.*, 1995) were used to provide a context for assessing the sediment data. These screening levels were selected from among several sets of frequently cited benchmarks because they are preferred by the NJDEP (NJDEP, 1998). The ER-Ls and ER-Ms represent the 10th and 50th percentile concentrations, respectively, associated with observed biological effects from systems with multiple contaminants. Correlation between effects and concentrations for many constituents, including mercury, was described by the Long, *et al.* (1995) as "weak." The ER-Ls are used as a threshold below which biological effects are not expected. The ER-Ms are indicators of when effects might be expected. The ER-Ms do not indicate biological hazard, only that additional risk evaluation may be warranted. Tables N-6a and N-6b list

the ER-L and ER-M values for various constituents, along with exceedances of these screening values for Old Place Creek. The ER-L value was exceeded for 23 constituents in at least one sample from Old Place Creek. Eleven chemicals exceeded respective ER-Ms in Old Place Creek.

Mercury was detected and exceeded the ER-L in all 20 sediment samples as presented in Figures N-2a through N-2d. The ER-M was exceeded in 17 of 20 samples. Methyl mercury was detected in 10 of 21 samples. The percentage of methyl mercury in sediment compared to total mercury ranged from 0.01% to 0.39% in samples where it was detected as shown in Table N-7.

AVS/SEM measurements are used as a general indicator of bioavailability of divalent metals (cadmium, copper, nickel, lead, mercury and zinc) in sediment. The major component of AVS; iron sulfide (FeS), reacts with those metals to form metal sulfides. The solubility of these metal sulfides is very low, and they are therefore not considered bioavailable. In sediments that contained a high level of reactive sulfide, the partitioning of divalent metals (Cd, Cu, Ni, Pb, Hg, and Zn) into the aqueous fraction (pore water), which represents the contact medium for aquatic life, will be minimized. Conversely, sediments with SEM greater than AVS are of potential concern with regard to bioavailability from sediment. Specifically, where the AVS/SEM ratio is less than one, there is a potential for the presence of soluble (bioavailable) metals. Table N-8 presents the AVS/SEM results from sediments in Old Place Creek, which ranged from 0.062 in sample SED-W-2 to 27 in sample SED-Z-2 and SED-Z-3.

Sediments collected from Old Place Creek had PCBs detected in 6 samples. Those PCBs were identified as Aroclor 1248 and Aroclor 1260 (Table N-9, Figure N-4a through N-4d) which are the same as those observed in the on-site soils. The ER-L and ER-M concentrations for Aroclor 1254 are .023 mg/kg and 0.18 mg/kg, respectively. Of the samples with detectable PCBs, 30 percent exceeded the ER-L and ER-M thresholds.

Seventeen (17) of the 18 analyzed SVOCs that are classified as polycyclic aromatic hydrocarbons (PAHs) were detected in sediment samples collected from Old Place Creek. The frequency of detection for these 17 chemicals in Old Place Creek samples ranged from 15 to 100 percent. ER-L/ER-M values have been established for 13 of these PAHs. The frequency of ER-L exceedances ranged from 15 to 65 percent. The ER-Ms were exceeded for two of these constituents, in 5 to 15 percent of the samples. The average total PAH concentration in Old Place Creek sediments was 5.41 mg/kg (Table N-10 and Figures N-5a through N-5d). Total carcinogenic PAHs (cPAHs) in sediments and cPAHs normalized to B(a)P are shown on Figures N-6a through N-7d.

In addition to the PCBs and PAHs discussed above, sediment samples were analyzed for 17 polychlorinated dibenzo-p-dioxins and -furans (PCDDs/PCDFs), 21 pesticides and herbicides, 51 non-PAH SVOCs and 46 volatile organic compounds (VOCs). The full suite of analyzed PCDD (dioxin) and PCDF (furan) congeners was detected in almost every sediment sample collected from Old Place Creek (Table N-4).

Another way of looking at these compounds is by normalizing to the most toxic isomer, 2,3,7,8-TCDD. Each of the 17 PCDDs/PCDFs have been assigned a Toxic Equivalency Factor (TEF) by the World Health Organization (WHO, 2005), which is based on the chemical's toxicity relative to TCDD (which has a TEF of 1). Table N-11 also lists the Toxicity Equivalence Quotient (TEQ) for PCDDs/PCDFs. The TEQ is defined as "the sum of the quantity of individual PCDD/PCDF congeners multiplied by the respective TEF." TEQs standardize the toxicity of dioxin compounds to allow comparison of the relative risk in areas of contamination that vary widely in the composition and level of individual PCDD/PCDF compounds. The spatial distribution of TEQ values is presented in Figure N-8.

4.3 Biota

Tables N-12a and b present a summary of descriptive statistics for the fish and crab tissue samples, respectively; Figures N -9a through N-10b show the spatial distribution of mercury and arsenic in these samples. The percentage of methyl mercury in fish and crab tissue is presented in Tables N-13a and b.

Tissue accumulation is not typically a concern for metals. However, the USEPA previously expressed concern about the potential for tissue accumulation and specifically requested tissue analyses for 10 metals. To address the resulting data, Biota-Sediment Accumulation Factors (BSAFs) were calculated for these metals and for total PCB Congeners. The BSAFs provide an estimate of the uptake of chemical constituents from sediment to biological tissue by taking the lipid-normalized concentration in organisms divided by the organic carbon-normalized concentration in sediments. The BSAFs for metals are reported as:

$$\mathrm{BSAF}\left(\mathrm{kg\,sediment}/\mathrm{kg\,tissue}\right)=\frac{\mathrm{mg}/\mathrm{kg\,tissue}}{\mathrm{mg}/\mathrm{kg\,sediment}}$$

These BSAFs are based on the undepurated data, meaning that the total tissue concentrations reflect sediment retained in the gut. The BSAFs therefore may not provide an accurate representation of contaminants accumulated in tissue. However, mummichog and crab are prey species consumed whole. Therefore, the BSAFs estimated based on the undepurated results reflect the food chain impacts. The BSAFs for fish and crab tissue are presented in Tables N-14a and b, respectively. They are highly variable but all well below 1, indicating that the tissue contains lower concentrations than sediments in the corresponding areas. Thus biomagnification into tissue is not occurring from sediment.

5. CONCLUSIONS

Old Place Creek is a tidal creek located within estuarine marshes and adjacent successional southern hardwood forest. The creek is situated within the northern portion of the Arthur Kill estuary, which is heavily industrialized. Old Place Creek is follows a natural course as has not been filled or channeled, unlike many of the other tidal creeks contributing to the Arthur Kill Estuary, including South Branch Creek. Samples collected within a tributary of Old Place Creek have revealed contaminants in sediment and biota that indicate regional industrial impacts. Chemical impacts include Mercury, PCBs, PAHs, and Dioxins/Furans that exceed applicable screening criteria.

6. REFERENCES

Long, Edward R., MacDonald, Donald D., Smith, Sherri L., Calder, Fred D., 1995. Incidence of Adverse Biological Effects within Ranges of Chemical Concentrations in Marine and Estuarine Sediments. Environmental Management. Volume 19. No. 1, pp. 81-97.

New Jersey Department of Environmental Protection, January 2008. "New Jersey Surface Water Quality Standards". N.J.A.C. 7:9B-1-15.New Jersey Department of Environmental Protection, Site Remediation Program, Hazardous Site Science Element, Bureau of Environmental Evaluation and Risk Assessment, Environmental Toxicology and Risk Assessment, November 1998. "Guidance for Sediment Quality Evaluations."

World Health Organization, 2005. "The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors For Dioxins and Dioxin-like Compounds".

TABLES

TABLE N-1a
SURFACE WATER SAMPLE SUMMARY
Old Place Creek, Staten Island, New York

Location	Sample Name	Sample Date	Total/ Dissolved	VOCss (SW8260B)	SVOCs (SW8270C)	SVOCs (SW8270CSIM)	Total Metals (SW6020)	TAL Metals (SW6010B)	Total Hg (SW7470A)	MeHg (Lab SOP)	Total Cn (SW9012)	Cr+6 (SW7196A)	Pest. (SW8081A)	PCBs (SW8082)	Diox/Furan (SW8290)	Hardness (A2340C)	TSS (E160.2)	TOC (E415.1)
Old Place Creek																		
SW-W	SW-W	26-Sep-06	T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SW-X	SW-X	26-Sep-06	T	X	X	X	X	X	X	X	X	X	X	X		X	X	X
SW-Y	SW-Y	26-Sep-06	T	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SW-Z	SW-Z	26-Sep-06	T	X	X	X	X	X	X	X	X	X	X	X		X	X	X

Notes:
VOCs - Volatile Organic Compunds
SVOCs - Semi-volatile Organic Compunds
TAL - Target Analyte List
Hg - Mercury
MeHg - Methyl Mercury
Cn - Cyanide
Cr+6 - Hexavalent Chromium
Pest. - Pesticides and Herbicides
PCBs- Polychlorinated Biphenyls
Diox/Furan - Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans
TSS - Total suspended solids
TOC - Total organic carbon

TABLE N-1b
SEDIMENT SAMPLE SUMMARY
Old Place Creek, Staten Island, New York

LocationName	SampleName	SampleDate	Top Depth	Bottom Depth	VOCs (SW8260B)	SVOCs (SW8270C)	TAL Metals (SW6010B)	Total Hg (SW7471A)	MeHg (LAB SOP)	AVS/SEM (E821 Draft)	Total Cn (SW9012A)	Cr+6 (SW7196A)	Pest. (SW8081A)	PCBs (SW8082)	Diox/Furan (SW8290)	Total Solids (E160.3)	Grain Size (D422-63)	Redox Pot. (D1498)	Soil pH (SW9045)	Sediment Toxicity
Old Place Creek																				
SED-W-1	SED-W-1-0-0.5	02-Oct-06	0	0.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SED-W-2	SED-W-2-0-0.5	02-Oct-06	0	0.5	X	X	X	X	X		X	X	X	X		X		X	X	
SED-W-2	SED-W-2-0.5-1.0	02-Oct-06	0.5	1					X							X				
SED-W-2	SED-W-2-1.0-1.5	02-Oct-06	1	1.5	X	X	X	X	X		X	X	X	X		X		X	X	
SED-W-3	SED-W-3-0-0.5	02-Oct-06	0	0.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SED-X-1	SED-X-1-0-0.5	29-Sep-06	0	0.5	X	X	X	X	X	X	X	X	X	X		X	X	X	X	
SED-X-2	SED-X-2-0-0.5	29-Sep-06	0	0.5		X	X	X	X		X	X	X	X		X		X	X	
SED-X-2	SED-X-2-0.5-1.0	29-Sep-06	0.5	1	X	X	X	X	X		X	X	X	X		X		X	X	
SED-X-2	SED-X-2-1.0-1.5	29-Sep-06	1	1.5	X	X	X	X	X		X	X	X	X		X		X	X	
SED-X-3	SED-X-3-0-0.5	29-Sep-06	0	0.5	X	X	X	X	X	X	X	X	X	X		X	X	X	X	
SED-Y-1	SED-Y-1-0-0.5	29-Sep-06	0	0.5	X	X	X	X	X	X	X	X	X	X		X	X	X	X	
SED-Y-2	SED-Y-2-0-0.5	29-Sep-06	0	0.5	X	X	X	X	X		X	X	X	X		X		X	X	
SED-Y-2	SED-Y-2-0.5-1.0	29-Sep-06	0.5	1	X	X	X	X	X		X	X	X	X		X		X	X	
SED-Y-2	SED-Y-2-1.0-1.5	29-Sep-06	1	1.5	X	X	X	X	X		X	X	X	X		X		X	X	
SED-Y-2	SED-Y-2-1.5-2.0	29-Sep-06	1.5	2	X	X	X	X	X		X	X	X	X		X		X	X	
SED-Y-3	SED-Y-3-0-0.5	29-Sep-06	0	0.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SED-Z-1	SED-Z-1-0-0.5	29-Sep-06	0	0.5	X	X	X	X	X	X	X	X	X	X		X	X	X	X	
SED-Z-2	SED-Z-2-0-0.5	29-Sep-06	0	0.5		X	X	X	X	X	X	X	X	X		X	X	X	X	
SED-Z-2	SED-Z-2-0.5-1.0	29-Sep-06	0.5	1	X	X	X	X	X		X	X	X	X		X		X	X	
SED-Z-2	SED-Z-2-1.0-1.5	29-Sep-06	1	1.5	X	X	X	X	X		X	X	X	X		X		X	X	
SED-Z-3	SED-Z-3-0-0.5	29-Sep-06	0	0.5	X	X	X	X	X	X	X	X	X	X		X	X	X	X	

Notes:
VOCs - Volatile Organic Compunds
SVOCs - Semi-volatile Organic Compunds
TAL - Target Analyte List
Hg - Mercury
MeHg - Methyl Mercury
Hg Spec. - Mercury Speciation
AVS/SEM - Acid volatile sulfides/simultaneously extracted metals
Cn - Cyanide
Cr+6 - Hexavalent Chromium
Pest. - Pesticides and Herbicides
PCBs- Polychlorinated Biphenyls
Diox/Furan - Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans
TOC - Total organic carbon
Redox Pot. - Oxidation/Reduction Potential

TABLE N-1c
BIOTA SAMPLE SUMMARY
Old Place Creek, Staten Island, New York

LocationName	SampleName	SampleDate	TAL Metals (SW6010B)	Total Hg (SW7471A)	MeHg (E1630M)	As Spec. (SOP7240)	PCB Congeners (E1668A)	Percent Solids	As, Pb, Mg, Vn (SW6020)	% Lipid (Lab SOP)
Fish										
MC-W	MC-A	19-Sep-06	X	X	X	X	X	X	X	X
MC-X	MC-B	19-Sep-06	X	X	X	X	X	X	X	X
MC-Y	MC-C	19-Sep-06	X	X	X	X	X	X	X	X
MC-Z	MC-D	20-Sep-06	X	X	X	X	X	X	X	X
Crab										
FC-W-1	FC-A-1	18-Sep-06	X	X	X	X	X	X	X	X
FC-W-2	FC-A-2	18-Sep-06	X	X	X	X	X	X	X	X
FC-X-1	FC-B-1	19-Sep-06	X	X	X	X	X	X	X	X
FC-X-2	FC-B-2	19-Sep-06	X	X	X	X	X	X	X	X
FC-Y-1	FC-C-1	19-Sep-06	X	X	X	X	X	X	X	X
FC-Y-2	FC-C-2	19-Sep-06	X	X	X	X	X	X	X	X
FC-Z-1	FC-D-1	20-Sep-06	X	X	X	X	X	X	X	X
FC-Z-2	FC-D-2	20-Sep-06	X	X	X	X	X	X	X	X

Notes:
TAL - Target Analyte List
Hg - Mercury
MeHg - Methyl Mercury
As Spec. - Arsenic Speciation
PCBs- Polychlorinated Biphenyls
As - Arsenic
Pb - Lead
Mg - Magnesium
Vn - Vanadium

TABLE N-2
DESCRIPTIVE STATISTICS: SURFACE WATER SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units	No. of Detects	No. of Samples	Detection Frequency	Saltwater CCC [(a)]	No. of Saltwater CCC [(a)] Exceedances	Saltwater CCC Exceedance Frequency	Saltwater CMC [(b)]	No. of Saltwater CMC [(b)] Exceedances	Saltwater CMC Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
Hardness (as Caco3)	3970000	UG/L	4	4	100%	--	--	0%	--	--	0%	3820000.000	3819035.007
1,2,3,4,6,7,8-HPCDD	0.00000742	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	5.15399E-06
1,2,3,4,7,8-HXCDD	0.00000116	UG/L	1	2	50%	--	--	0%	--	--	0%	0.000	1.22564E-06
1,2,3,6,7,8-HXCDD	0.00000158	UG/L	1	2	50%	--	--	0%	--	--	0%	0.000	1.43042E-06
1,2,3,7,8,9-HXCDD	0.00000122	UG/L	1	2	50%	--	--	0%	--	--	0%	0.000	1.25694E-06
1,2,3,7,8-PECDD	0.00000156	UG/L	1	2	50%	--	--	0%	--	--	0%	0.000	1.42134E-06
2,3,7,8-Tetrachlorodibenzo-P-Dioxin	0.00000089	UG/L	1	2	50%	--	--	0%	--	--	0%	0.000	6.57001E-07
OCDD	0.0000713	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	5.2257E-05
Total HPCDDS	0.0000216	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	1.293E-05
Total HXCDDS	0.00000497	UG/L	1	2	50%	--	--	0%	--	--	0%	0.000	2.53696E-06
Total PECDDS		UG/L	0	2	0%	--	--	0%	--	--	0%	0.000	1.28244E-06
Total TCDDS	0.00000178	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	1.44928E-06
1,2,3,4,6,7,8-HPCDF	0.00000339	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	2.63619E-06
1,2,3,4,7,8,9-HPCDF	0.00000108	UG/L	1	2	50%	--	--	0%	--	--	0%	0.000	1.18262E-06
1,2,3,4,7,8-HXCDF	0.0000013	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	9.93982E-07
1,2,3,6,7,8-HXCDF	0.00000138	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	8.55219E-07
1,2,3,7,8,9-HXCDF	0.00000101	UG/L	1	2	50%	--	--	0%	--	--	0%	0.000	1.14366E-06
1,2,3,7,8-PECDF	0.0000015	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	1.05357E-06
2,3,4,6,7,8-HXCDF	0.00000118	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	8.05605E-07
2,3,4,7,8-PECDF	0.00000158	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	1.25068E-06
2,3,7,8-TCDF		UG/L	0	2	0%	--	--	0%	--	--	0%	0.000	3.42272E-07
OCDF	0.00000629	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	4.34396E-06
Total HPCDFS	0.00000677	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	4.43091E-06
Total HXCDFS	0.00000487	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	2.51615E-06
Total PECDFS	0.00000369	UG/L	2	2	100%	--	--	0%	--	--	0%	0.000	2.53389E-06
Total TCDFS		UG/L	0	2	0%	--	--	0%	--	--	0%	0.000	3.42272E-07
Cyanide		UG/L	0	4	0%	1	--	0%	1	--	0%	5.000	5
Suspended Solids (residue, Non-Filterable)	32000	UG/L	4	4	100%	--	--	0%	--	--	0%	14500.000	10954.45115
Aluminum	278	UG/L	3	4	75%	--	--	0%	--	--	0%	206.500	193.1181823
Antimony		UG/L	0	4	0%	--	--	0%	--	--	0%	3.000	3
Arsenic	3.6	UG/L	3	4	75%	36	--	0%	69	--	0%	2.550	2.293062701

TABLE N-2
DESCRIPTIVE STATISTICS: SURFACE WATER SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units	No. of Detects	No. of Samples	Detection Frequency	Saltwater CCC [(a)]	No. of Saltwater CCC [(a)] Exceedances	Saltwater CCC Exceedance Frequency	Saltwater CMC [(b)]	No. of Saltwater CMC [(b)] Exceedances	Saltwater CMC Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
Barium		UG/L	0	4	0%	--	--	0%	--	--	0%	100.000	100
Beryllium		UG/L	0	4	0%	--	--	0%	--	--	0%	0.500	0.5
Cadmium		UG/L	0	4	0%	8.8	--	0%	40	--	0%	2.000	2
Calcium	242000	UG/L	4	4	100%	--	--	0%	--	--	0%	237250.000	237227.5162
Chromium		UG/L	0	4	0%	--	--	0%	--	--	0%	5.000	5
Chromium, Hexavalent		UG/L	0	4	0%	--	--	0%	--	--	0%	25.000	25
Cobalt		UG/L	0	4	0%	--	--	0%	--	--	0%	25.000	25
Copper		UG/L	0	4	0%	3.1	--	0%	4.8	--	0%	12.500	12.5
Iron		UG/L	0	4	0%	--	--	0%	--	--	0%	50.000	50
Lead		UG/L	0	4	0%	8.1	--	0%	210	--	0%	1.875	1.783810673
Magnesium	800000	UG/L	4	4	100%	--	--	0%	--	--	0%	793750.000	793730.332
Manganese	55.2	UG/L	4	4	100%	--	--	0%	--	--	0%	54.625	54.62241918
Mercury		UG/L	0	4	0%	0.94	--	0%	1.8	--	0%	0.100	0.1
Methyl Mercury	0.0000912	UG/L	4	4	100%	--	--	0%	--	--	0%	0.000	6.49338E-05
Nickel		UG/L	0	4	0%	8.2	--	0%	74	--	0%	20.000	20
Potassium	434000	UG/L	4	4	100%	--	--	0%	--	--	0%	409500.000	409197.7631
Selenium		UG/L	0	4	0%	71	--	0%	290	--	0%	5.000	5
Silver		UG/L	0	4	0%	--	--	0%	1.9	--	0%	5.000	5
Sodium	6540000	UG/L	4	4	100%	--	--	0%	--	--	0%	6460000.000	6459296.567
Thallium		UG/L	0	4	0%	--	--	0%	--	--	0%	0.500	0.5
THg (MeHg Analysis)	0.0178	UG/L	4	4	100%	--	--	0%	--	--	0%	0.016	0.015981082
Vanadium		UG/L	0	4	0%	--	--	0%	--	--	0%	25.000	25
Zinc		UG/L	0	4	0%	81	--	0%	90	--	0%	10.000	10
Dissolved Organic Carbon	2500	UG/L	4	4	100%	--	--	0%	--	--	0%	2400.000	2398.957654
Total Organic Carbon	3100	UG/L	4	4	100%	--	--	0%	--	--	0%	3075.000	3074.691761
Aroclor 1016		UG/L	0	4	0%	0.03	--	0%	--	--	0%	0.048	0.048355149
Aroclor 1221		UG/L	0	4	0%	0.03	--	0%	--	--	0%	0.243	0.242359751
Aroclor 1232		UG/L	0	4	0%	0.03	--	0%	--	--	0%	0.201	0.201145627
Aroclor 1242		UG/L	0	4	0%	0.03	--	0%	--	--	0%	0.084	0.083648923
Aroclor 1248		UG/L	0	4	0%	0.03	--	0%	--	--	0%	0.078	0.077459667
Aroclor 1254		UG/L	0	4	0%	0.03	--	0%	--	--	0%	0.056	0.056209514
Aroclor 1260		UG/L	0	4	0%	0.03	--	0%	--	--	0%	0.061	0.061212734
Aldrin		UG/L	0	4	0%	--	--	0%	1.3	--	0%	0.002	0.001711274

TABLE N-2
DESCRIPTIVE STATISTICS: SURFACE WATER SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units	No. of Detects	No. of Samples	Detection Frequency	Saltwater CCC [(a)]	No. of Saltwater CCC [(a)] Exceedances	Saltwater CCC Exceedance Frequency	Saltwater CMC [(b)]	No. of Saltwater CMC [(b)] Exceedances	Saltwater CMC Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
Alpha-BHC		UG/L	0	4	0%	--	--	0%	--	--	0%	0.001	0.001336864
Alpha-Chlordane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.002	0.002261571
Beta-BHC		UG/L	0	4	0%	--	--	0%	--	--	0%	0.003	0.003186252
Bhc, Delta Isomer		UG/L	0	4	0%	--	--	0%	--	--	0%	0.002	0.001599219
Bhc, Gamma Isomer		UG/L	0	4	0%	--	--	0%	0.16	--	0%	0.001	0.000874643
Dieldrin		UG/L	0	4	0%	0.0019	--	0%	0.71	--	0%	0.001	0.000874643
Endosulfan I		UG/L	0	4	0%	--	--	0%	--	--	0%	0.001	0.001086719
Endosulfan II		UG/L	0	4	0%	--	--	0%	--	--	0%	0.002	0.001661238
Endosulfan Sulfate		UG/L	0	4	0%	--	--	0%	--	--	0%	0.002	0.002385835
Endrin		UG/L	0	4	0%	0.0023	--	0%	0.037	--	0%	0.002	0.001549193
Endrin Aldehyde		UG/L	0	4	0%	--	--	0%	--	--	0%	0.003	0.003310545
Endrin Ketone		UG/L	0	4	0%	--	--	0%	--	--	0%	0.002	0.001811342
Gamma-Chlordane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.001	0.000874643
Heptachlor		UG/L	0	4	0%	0.0036	--	0%	0.053	--	0%	0.001	0.001336864
Heptachlor Epoxide		UG/L	0	4	0%	0.0036	--	0%	0.053	--	0%	0.001	0.000762199
Methoxychlor		UG/L	0	4	0%	--	--	0%	--	--	0%	0.004	0.003498402
P,P'-DDD		UG/L	0	4	0%	--	--	0%	--	--	0%	0.001	0.001236813
P,P'-DDE		UG/L	0	4	0%	--	--	0%	--	--	0%	0.001	0.000874643
P,P'-DDT		UG/L	0	4	0%	0.001	--	0%	0.13	--	0%	0.003	0.002535933
Toxaphene		UG/L	0	4	0%	0.0002	--	0%	0.21	--	0%	0.048	0.048355149
1,1'-Biphenyl		UG/L	0	4	0%	--	--	0%	--	--	0%	0.165	0.165
1,2,4-Trichlorobenzene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.080	0.08
1,2-Dichlorobenzene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.100	0.1
1,3-Dichlorobenzene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.160	0.16
1,4-Dichlorobenzene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.120	0.12
2,4,5-Trichlorophenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.950	0.95
2,4,6-Trichlorophenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.650	0.65
2,4-Dichlorophenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.800	0.8
2,4-Dimethylphenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.800	0.8
2,4-Dinitrophenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.445	0.445
2,4-Dinitrotoluene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.430	0.43
2,6-Dinitrotoluene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.280	0.28

TABLE N-2
DESCRIPTIVE STATISTICS: SURFACE WATER SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units	No. of Detects	No. of Samples	Detection Frequency	Saltwater CCC [(a)]	No. of Saltwater CCC [(a)] Exceedances	Saltwater CCC Exceedance Frequency	Saltwater CMC [(b)]	No. of Saltwater CMC [(b)] Exceedances	Saltwater CMC Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
2-Chloronaphthalene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.490	0.49
2-Chlorophenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.475	0.475
2-Methylnaphthalene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.205	0.205
2-Methylphenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.700	0.7
2-Nitroaniline		UG/L	0	4	0%	--	--	0%	--	--	0%	0.330	0.33
2-Nitrophenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.900	0.9
3,3'-Dichlorobenzidine		UG/L	0	3	0%	--	--	0%	--	--	0%	0.600	0.6
3-Nitroaniline		UG/L	0	3	0%	--	--	0%	--	--	0%	0.650	0.65
4,6-Dinitro-2-Methylphenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.360	0.36
4-Bromophenyl-Phenyl Ether		UG/L	0	4	0%	--	--	0%	--	--	0%	0.150	0.15
4-Chloro-3-Methylphenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.600	0.6
4-Chloroaniline		UG/L	0	4	0%	--	--	0%	--	--	0%	0.200	0.2
4-Chlorophenyl-Phenyl Ether		UG/L	0	4	0%	--	--	0%	--	--	0%	0.215	0.215
4-Nitroaniline		UG/L	0	3	0%	--	--	0%	--	--	0%	0.360	0.36
4-Nitrophenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.420	0.42
Acenaphthene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.009	0.0085
Acenaphthylene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.005	0.00475
Acetophenone		UG/L	0	4	0%	--	--	0%	--	--	0%	0.185	0.185
Anthracene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.011	0.0105
Atrazine		UG/L	0	4	0%	--	--	0%	--	--	0%	0.080	0.08
Benzo (a) Anthracene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.003	0.0034
Benzo (a) Pyrene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.009	0.0085
Benzo (b) fluoranthene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.018	0.018
Benzo (g,H,i) Perylene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.009	0.009
Benzo (k) fluoranthene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.008	0.008
Bis(2-Chloroethoxy) Methane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.325	0.325
Bis(2-Chloroethyl) Ether		UG/L	0	4	0%	--	--	0%	--	--	0%	0.265	0.265
Bis(2-Chloroisopropyl) Ether		UG/L	0	4	0%	--	--	0%	--	--	0%	0.370	0.37
Bis(2-Ethylhexyl) Phthalate		UG/L	0	4	0%	--	--	0%	--	--	0%	0.330	0.33
Butyl Benzyl Phthalate		UG/L	0	4	0%	--	--	0%	--	--	0%	0.295	0.295

TABLE N-2
DESCRIPTIVE STATISTICS: SURFACE WATER SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units	No. of Detects	No. of Samples	Detection Frequency	Saltwater CCC [(a)]	No. of Saltwater CCC [(a)] Exceedances	Saltwater CCC Exceedance Frequency	Saltwater CMC [(b)]	No. of Saltwater CMC [(b)] Exceedances	Saltwater CMC Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
Caprolactam		UG/L	0	4	0%	--	--	0%	--	--	0%	0.160	0.16
Carbazole		UG/L	0	4	0%	--	--	0%	--	--	0%	0.180	0.18
Chrysene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.009	0.0085
Cresols, M & P		UG/L	0	4	0%	--	--	0%	--	--	0%	0.650	0.65
Dibenz (a,H) Anthracene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.008	0.008
Dibenzofuran		UG/L	0	4	0%	--	--	0%	--	--	0%	0.170	0.17
Diethyl Phthalate		UG/L	0	4	0%	--	--	0%	--	--	0%	0.195	0.195
Dimethyl Phthalate		UG/L	0	4	0%	--	--	0%	--	--	0%	0.165	0.165
Di-N-Butyl Phthalate		UG/L	0	4	0%	--	--	0%	--	--	0%	0.295	0.295
Di-N-Octyl Phthalate		UG/L	0	4	0%	--	--	0%	--	--	0%	0.285	0.285
Fluoranthene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.005	0.0045
Fluorene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.010	0.01
Hexachlorobenzene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.031	0.0305
Hexachlorobutadiene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.090	0.09
Hexachlorocyclopentadiene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.205	0.205
Hexachloroethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.140	0.14
Indeno (1,2,3-C,d) Pyrene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.006	0.0055
Isophorone		UG/L	0	4	0%	--	--	0%	--	--	0%	0.295	0.295
Naphthalene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.013	0.013
Nitrobenzene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.210	0.21
N-Nitroso-Di-N-Propylamine		UG/L	0	4	0%	--	--	0%	--	--	0%	0.235	0.235
N-Nitrosodiphenylamine		UG/L	0	4	0%	--	--	0%	--	--	0%	0.260	0.26
Pentachlorophenol		UG/L	0	4	0%	7.9	--	0%	13	--	0%	0.200	0.2
Phenanthrene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.011	0.0105
Phenol		UG/L	0	4	0%	--	--	0%	--	--	0%	0.250	0.25
Pyrene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.007	0.007
1,1,1-Trichloroethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.140	0.14
1,1,2,2-Tetrachloroethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.140	0.14
1,1,2-Trichloroethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.160	0.16
1,1-Dichloroethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.115	0.115
1,1-Dichloroethene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.165	0.165

TABLE N-2
DESCRIPTIVE STATISTICS: SURFACE WATER SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units	No. of Detects	No. of Samples	Detection Frequency	Saltwater CCC [(a)]	No. of Saltwater CCC [(a)] Exceedances	Saltwater CCC Exceedance Frequency	Saltwater CMC [(b)]	No. of Saltwater CMC [(b)] Exceedances	Saltwater CMC Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
1,2-Dibromoethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.260	0.26
1,2-Dichloroethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.145	0.145
1,2-Dichloropropane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.100	0.1
2-Butanone (MEK)		UG/L	0	4	0%	--	--	0%	--	--	0%	1.300	1.3
2-Hexanone		UG/L	0	4	0%	--	--	0%	--	--	0%	0.650	0.65
4-Methyl-2-Pentanone (MIBK)		UG/L	0	4	0%	--	--	0%	--	--	0%	0.550	0.55
Acetic Acid, Methyl Ester		UG/L	0	4	0%	--	--	0%	--	--	0%	1.050	1.05
Acetone		UG/L	0	4	0%	--	--	0%	--	--	0%	1.200	1.2
Benzaldehyde		UG/L	0	4	0%	--	--	0%	--	--	0%	0.135	0.135
Benzene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.105	0.105
Bromodichloromethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.085	0.085
Bromoform		UG/L	0	4	0%	--	--	0%	--	--	0%	0.270	0.27
Bromomethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.110	0.11
Carbon Disulfide		UG/L	0	4	0%	--	--	0%	--	--	0%	0.105	0.105
Carbon Tetrachloride		UG/L	0	4	0%	--	--	0%	--	--	0%	0.145	0.145
Chlorobenzene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.110	0.11
Chlorodibromomethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.095	0.095
Chloroethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.280	0.28
Chloroform		UG/L	0	4	0%	--	--	0%	--	--	0%	0.110	0.11
Chloromethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.175	0.175
Cis-1,2-Dichloroethene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.090	0.09
Cis-1,3-Dichloropropene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.075	0.075
Cyclohexane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.250	0.25
DBCP		UG/L	0	4	0%	--	--	0%	--	--	0%	0.550	0.55
Dichlorodifluoromethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.375	0.375
Ethylbenzene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.100	0.1
Isopropylbenzene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.100	0.1
M,P-Xylene (sum Of Isomers)		UG/L	0	4	0%	--	--	0%	--	--	0%	0.210	0.21
Methylcyclohexane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.090	0.09
Methylene Chloride		UG/L	0	4	0%	--	--	0%	--	--	0%	0.135	0.135
O-xylene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.155	0.155
Styrene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.080	0.08

TABLE N-2
DESCRIPTIVE STATISTICS: SURFACE WATER SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units	No. of Detects	No. of Samples	Detection Frequency	Saltwater CCC [(a)]	No. of Saltwater CCC [(a)] Exceedances	Saltwater CCC Exceedance Frequency	Saltwater CMC [(b)]	No. of Saltwater CMC [(b)] Exceedances	Saltwater CMC Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
Tert-Butyl Methyl Ether		UG/L	0	4	0%	--	--	0%	--	--	0%	0.155	0.155
Tetrachloroethylene(PERC)		UG/L	0	4	0%	--	--	0%	--	--	0%	0.140	0.14
Toluene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.100	0.1
Trans-1,2-Dichloroethene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.210	0.21
Trans-1,3-Dichloropropene		UG/L	0	4	0%	--	--	0%	--	--	0%	0.100	0.1
Trichloroethene (TCE)		UG/L	0	4	0%	--	--	0%	--	--	0%	0.145	0.145
Trichlorofluoromethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.125	0.125
Trichlorotrifluoroethane		UG/L	0	4	0%	--	--	0%	--	--	0%	0.345	0.345
Vinyl Chloride		UG/L	0	4	0%	--	--	0%	--	--	0%	0.145	0.145
Xylenes, Mixed		UG/L	0	4	0%	--	--	0%	--	--	0%	0.155	0.155

Notes:
(a) Saltwater CCC refers to Saltwater Criteria Continuous Concentration (chronic criterion) per EPA 822-Z-99-001, April 1999
(b) Saltwater CMC refers to Saltwater Criteria Maximum Concentration (acute criterion) per EPA 822-Z-99-001, April 1999
(c) Calculated using the World Health Organization (2005) Toxicity Equivalence Factors (TEFs); nondetects treated as zero
UG/L = microgram per liter
MG/L = milligram per liter
NG/L = nanogram per liter
Rejected data are not included in the descriptive statistics

TABLE N-3
METHYL MERCURY IN SURFACE WATER
Old Place Creek, Staten Island, New York

Sample ID	Total Mercury (µg/L)	Methyl Mercury (ug/L)	% Methyl Mercury of Total Mercury
Old Place Creek			
SW-W	0.0147	0.0000572	0.39%
SW-X	0.0152	0.0000535	0.35%
SW-Y	0.0164	0.0000637	0.39%
SW-Z	0.0178	0.0000912	0.51%

Notes:
µg/L - microgram per liter

TABLE N-4
DESCRIPTIVE STATISTICS: SEDIMENT SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Sediment ERL [a]	Number of Sediment ERL [a] Exceedances	Sediment ERL Exceedance Frequency	Sediment ERM [b]	Number of Sediment ERM [b] Exceedances	Sediment ERM Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
1,2,3,4,6,7,8-HPCDD	0.0000708	MG/KG	3	3	100%			0%			0%	0.000	3.70998E-05
1,2,3,4,7,8-HXCDD	0.00000112	MG/KG	3	3	100%			0%			0%	0.000	5.74086E-07
1,2,3,6,7,8-HXCDD	0.00000387	MG/KG	3	3	100%			0%			0%	0.000	1.63739E-06
1,2,3,7,8,9-HXCDD	0.00000248	MG/KG	3	3	100%			0%			0%	0.000	1.24627E-06
1,2,3,7,8-PECDD	0.00000113	MG/KG	3	3	100%			0%			0%	0.000	6.43859E-07
2,3,7,8-Tetrachlorodibenzo-P-Dioxin	0.0000079	MG/KG	3	3	100%			0%			0%	0.000	2.62771E-06
OCDD	0.000852	MG/KG	3	3	100%			0%			0%	0.001	0.00062603
Total HPCDDS	0.000232	MG/KG	3	3	100%			0%			0%	0.000	0.000119829
Total HXCDDS	0.0000467	MG/KG	3	3	100%			0%			0%	0.000	2.66711E-05
Total PECDDS	0.0000144	MG/KG	3	3	100%			0%			0%	0.000	6.47702E-06
Total TCDDS	0.0000241	MG/KG	3	3	100%			0%			0%	0.000	6.33102E-06
1,2,3,4,6,7,8-HPCDF	0.0000333	MG/KG	3	3	100%			0%			0%	0.000	1.02893E-05
1,2,3,4,7,8,9-HPCDF	0.00000246	MG/KG	2	3	67%			0%			0%	0.000	1.13585E-06
1,2,3,4,7,8-HXCDF	0.00000699	MG/KG	3	3	100%			0%			0%	0.000	2.23791E-06
1,2,3,6,7,8-HXCDF	0.00000323	MG/KG	3	3	100%			0%			0%	0.000	1.23827E-06
1,2,3,7,8,9-HXCDF	0.00000119	MG/KG	2	3	67%			0%			0%	0.000	6.95701E-07
1,2,3,7,8-PECDF	0.00000264	MG/KG	3	3	100%			0%			0%	0.000	1.046E-06
2,3,4,6,7,8-HXCDF	0.00000324	MG/KG	3	3	100%			0%			0%	0.000	1.15179E-06
2,3,4,7,8-PECDF	0.00000452	MG/KG	3	3	100%			0%			0%	0.000	1.83382E-06
2,3,7,8-TCDF	0.00000463	MG/KG	3	3	100%			0%			0%	0.000	3.5402E-06
OCDF	0.0000532	MG/KG	3	3	100%			0%			0%	0.000	1.60925E-05
Total HPCDFS	0.00006	MG/KG	3	3	100%			0%			0%	0.000	1.792E-05
Total HXCDFS	0.0000499	MG/KG	3	3	100%			0%			0%	0.000	1.56812E-05
Total PECDFS	0.0000583	MG/KG	3	3	100%			0%			0%	0.000	1.82092E-05
Total TCDFS	0.0000662	MG/KG	3	3	100%			0%			0%	0.000	2.35108E-05
Cyanide	2.1	MG/KG	4	20	20%			0%			0%	0.429	0.346659239
Aluminum	23900	MG/KG	20	20	100%			0%			0%	18800.000	18549.61876
Antimony		MG/KG	0	20	0%			0%			0%	2.505	2.460034101
Arsenic	60.4	MG/KG	20	20	100%	8.2	20	100%	70		0%	35.345	33.83689769
Barium	840	MG/KG	20	20	100%			0%			0%	249.550	194.4027994
Beryllium	1.5	MG/KG	6	20	30%			0%			0%	0.856	0.805727205
Cadmium	22.2	MG/KG	13	20	65%	1.2	13	65%	9.6	3	15%	4.499	2.222584044
Calcium	14000	MG/KG	20	20	100%			0%			0%	3889.500	3479.148665
Chromium	424	MG/KG	20	20	100%	81	16	80%	370	2	10%	160.295	130.0766867

TABLE N-4
DESCRIPTIVE STATISTICS: SEDIMENT SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Sediment ERL [(a)]	Number of Sediment ERL [(a)] Exceedances	Sediment ERL Exceedance Frequency	Sediment ERM [(b)]	Number of Sediment ERM [(b)] Exceedances	Sediment ERM Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
Chromium, Hexavalent		MG/KG	0	16	0%			0%			0%	1.234	1.213934511
Cobalt	15.2	MG/KG	12	20	60%			0%			0%	11.040	10.47558113
Copper	1120	MG/KG	20	20	100%	34	20	100%	270	11	55%	348.840	262.1608696
Iron	45500	MG/KG	20	20	100%			0%			0%	36915.000	36649.46905
Lead	500	MG/KG	20	20	100%	47	20	100%	218	11	55%	240.390	210.4495157
Magnesium	9320	MG/KG	20	20	100%			0%			0%	7689.500	7641.583241
Manganese	489	MG/KG	20	20	100%			0%			0%	356.400	353.9967434
Mercury	30.4	MG/KG	20	20	100%	0.15	20	100%	0.71	17	85%	6.891	3.785409835
Methyl Mercury	0.0086	MG/KG	10	21	48%			0%			0%	0.002	0.000748386
Nickel	82.3	MG/KG	20	20	100%	21	20	100%	52	4	20%	44.905	43.33462617
Potassium	4820	MG/KG	20	20	100%			0%			0%	3763.500	3720.780826
Selenium	6.5	MG/KG	2	20	10%			0%			0%	2.845	2.653785629
Silver	7.5	MG/KG	6	20	30%	1	6	30%	3.7	4	20%	2.473	1.881995159
Sodium	14900	MG/KG	20	20	100%			0%			0%	9150.000	8814.880812
Thallium		MG/KG	0	20	0%			0%			0%	1.250	1.226284038
Vanadium	94.1	MG/KG	20	20	100%			0%			0%	54.185	53.0402999
Zinc	988	MG/KG	20	20	100%	150	18	90%	410	6	30%	375.900	325.2401202
Aroclor 1016		MG/KG	0	20	0%	0.023		0%	0.18		0%	0.025	0.014521627
Aroclor 1221		MG/KG	0	20	0%	0.023		0%	0.18		0%	0.049	0.032491745
Aroclor 1232		MG/KG	0	20	0%	0.023		0%	0.18		0%	0.046	0.030265486
Aroclor 1242		MG/KG	0	20	0%	0.023		0%	0.18		0%	0.032	0.020775702
Aroclor 1248	1.02	MG/KG	6	20	30%	0.023	6	30%	0.18	5	25%	0.208	0.066459632
Aroclor 1254		MG/KG	0	20	0%	0.023		0%	0.18		0%	0.042	0.027395346
Aroclor 1260	0.174	MG/KG	4	20	20%	0.023	4	20%	0.18		0%	0.053	0.027279449
Aldrin		MG/KG	0	20	0%			0%			0%	0.001	0.000643416
Alpha-BHC		MG/KG	0	20	0%			0%			0%	0.001	0.000570542
Alpha-Chlordane	0.0058	MG/KG	1	20	5%			0%			0%	0.001	0.000843949
Beta-BHC		MG/KG	0	20	0%			0%			0%	0.001	0.000639041
Bhc, Delta Isomer		MG/KG	0	20	0%			0%			0%	0.001	0.00092143
Bhc, Gamma Isomer		MG/KG	0	20	0%			0%			0%	0.001	0.000605206
Dieldrin	0.0173	MG/KG	4	20	20%			0%			0%	0.004	0.00197729
Endosulfan I		MG/KG	0	20	0%			0%			0%	0.001	0.000736067
Endosulfan II		MG/KG	0	20	0%			0%			0%	0.001	0.000731294
Endosulfan Sulfate		MG/KG	0	20	0%			0%			0%	0.001	0.000744161

TABLE N-4
DESCRIPTIVE STATISTICS: SEDIMENT SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Sediment ERL [(a)]	Number of Sediment ERL [(a)] Exceedances	Sediment ERL Exceedance Frequency	Sediment ERM [(b)]	Number of Sediment ERM [(b)] Exceedances	Sediment ERM Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
Endrin		MG/KG	0	20	0%			0%			0%	0.001	0.000701437
Endrin Aldehyde		MG/KG	0	20	0%			0%			0%	0.001	0.000676411
Endrin Ketone		MG/KG	0	20	0%			0%			0%	0.002	0.000986017
Gamma-Chlordane		MG/KG	0	20	0%			0%			0%	0.001	0.000825634
Heptachlor		MG/KG	0	20	0%			0%			0%	0.001	0.000724191
Heptachlor Epoxide		MG/KG	0	20	0%			0%			0%	0.001	0.000754257
Methoxychlor		MG/KG	0	20	0%			0%			0%	0.002	0.001127043
P,P'-DDD	0.253	MG/KG	17	20	85%			0%			0%	0.094	0.035634947
P,P'-DDE	0.295	MG/KG	11	20	55%			0%			0%	0.061	0.023310186
P,P'-DDT	0.0584	MG/KG	12	20	60%			0%			0%	0.013	0.004879077
Toxaphene		MG/KG	0	20	0%			0%			0%	0.018	0.011814339
1,1'-Biphenyl		MG/KG	0	20	0%			0%			0%	0.020	0.019838767
1,2,4-Trichlorobenzene		MG/KG	0	18	0%			0%			0%	0.000	0.000435747
1,2-Dichlorobenzene		MG/KG	0	18	0%			0%			0%	0.001	0.000565168
1,3-Dichlorobenzene		MG/KG	0	18	0%			0%			0%	0.001	0.000605888
1,4-Dichlorobenzene		MG/KG	0	18	0%			0%			0%	0.001	0.000574429
2,4,5-Trichlorophenol		MG/KG	0	20	0%			0%			0%	0.063	0.061566454
2,4,6-Trichlorophenol		MG/KG	0	20	0%			0%			0%	0.035	0.034485334
2,4-Dichlorophenol		MG/KG	0	20	0%			0%			0%	0.070	0.068735269
2,4-Dimethylphenol		MG/KG	0	20	0%			0%			0%	0.107	0.10447145
2,4-Dinitrophenol		MG/KG	0	20	0%			0%			0%	0.063	0.062309765
2,4-Dinitrotoluene		MG/KG	0	20	0%			0%			0%	0.048	0.047497503
2,6-Dinitrotoluene		MG/KG	0	20	0%			0%			0%	0.048	0.046930335
2-Chloronaphthalene		MG/KG	0	20	0%			0%			0%	0.059	0.057468634
2-Chlorophenol		MG/KG	0	20	0%			0%			0%	0.036	0.035120289
2-Methylnaphthalene	0.145	MG/KG	5	20	25%	0.07	5	25%	0.67		0%	0.047	0.038093898
2-Methylphenol		MG/KG	0	20	0%			0%			0%	0.041	0.040125582
2-Nitroaniline		MG/KG	0	20	0%			0%			0%	0.026	0.025975091
2-Nitrophenol		MG/KG	0	20	0%			0%			0%	0.052	0.050992091
3,3'-Dichlorobenzidine		MG/KG	0	20	0%			0%			0%	0.040	0.039074077
3-Nitroaniline		MG/KG	0	20	0%			0%			0%	0.032	0.031837914
4,6-Dinitro-2-Methylphenol		MG/KG	0	20	0%			0%			0%	0.036	0.035740829
4-Bromophenyl-Phenyl Ether		MG/KG	0	20	0%			0%			0%	0.021	0.020841436
4-Chloro-3-Methylphenol		MG/KG	0	20	0%			0%			0%	0.053	0.052054333

TABLE N-4
DESCRIPTIVE STATISTICS: SEDIMENT SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Sediment ERL [(a)]	Number of Sediment ERL [(a)] Exceedances	Sediment ERL Exceedance Frequency	Sediment ERM [(b)]	Number of Sediment ERM [(b)] Exceedances	Sediment ERM Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
4-Chloroaniline		MG/KG	0	20	0%			0%			0%	0.026	0.025426618
4-Chlorophenyl-Phenyl Ether		MG/KG	0	20	0%			0%			0%	0.020	0.019309997
4-Nitroaniline		MG/KG	0	20	0%			0%			0%	0.029	0.028324522
4-Nitrophenol		MG/KG	0	20	0%			0%			0%	0.057	0.056113265
Acenaphthene	0.305	MG/KG	4	20	20%	0.016	4	20%	0.5		0%	0.055	0.031698231
Acenaphthylene	0.259	MG/KG	13	20	65%	0.044	13	65%	0.64		0%	0.093	0.058323354
Acetophenone		MG/KG	0	20	0%			0%			0%	0.026	0.02589759
Anthracene	1.14	MG/KG	17	20	85%	0.085	13	65%	1.1	1	5%	0.276	0.123308566
Atrazine		MG/KG	0	20	0%			0%			0%	0.036	0.0354713
Benzo (a) Anthracene	1.06	MG/KG	19	20	95%	0.261	13	65%	1.6		0%	0.428	0.280389368
Benzo (a) Pyrene	0.996	MG/KG	19	20	95%	0.43	8	40%	1.6		0%	0.404	0.271417949
Benzo (b) fluoranthene	1.14	MG/KG	19	20	95%			0%			0%	0.418	0.26680412
Benzo (g,H,i) Perylene	0.483	MG/KG	18	20	90%			0%			0%	0.231	0.159536578
Benzo (k) fluoranthene	0.797	MG/KG	19	20	95%			0%			0%	0.305	0.21894559
Bis(2-Chloroethoxy) Methane		MG/KG	0	20	0%			0%			0%	0.027	0.026405556
Bis(2-Chloroethyl) Ether		MG/KG	0	20	0%			0%			0%	0.021	0.020456014
Bis(2-Chloroisopropyl) Ether		MG/KG	0	20	0%			0%			0%	0.031	0.030755987
Bis(2-Ethylhexyl) Phthalate	30.4	MG/KG	16	20	80%			0%			0%	4.411	1.012313956
Butyl Benzyl Phthalate		MG/KG	0	20	0%			0%			0%	0.032	0.031033493
Caprolactam		MG/KG	0	20	0%			0%			0%	0.040	0.039389485
Carbazole	0.132	MG/KG	4	20	20%			0%			0%	0.026	0.020816819
Chrysene	1.4	MG/KG	20	20	100%	0.384	10	50%	2.8		0%	0.548	0.343250349
Cresols, M & P		MG/KG	0	20	0%			0%			0%	0.059	0.058273861
Dibenz (a,H) Anthracene	0.165	MG/KG	8	20	40%	0.0634	7	35%	0.26		0%	0.055	0.03946424
Dibenzofuran	0.0883	MG/KG	1	20	5%			0%			0%	0.023	0.020528135
Diethyl Phthalate		MG/KG	0	20	0%			0%			0%	0.018	0.017575801
Dimethyl Phthalate		MG/KG	0	20	0%			0%			0%	0.018	0.017627586
Di-N-Butyl Phthalate		MG/KG	0	20	0%			0%			0%	0.027	0.026085238
Di-N-Octyl Phthalate		MG/KG	0	20	0%			0%			0%	0.036	0.035120289
Fluoranthene	3.69	MG/KG	20	20	100%	0.6	9	45%	5.1		0%	1.033	0.573300743
Fluorene	0.292	MG/KG	3	20	15%	0.019	3	15%	0.54		0%	0.042	0.023905717
Hexachlorobenzene		MG/KG	0	20	0%			0%			0%	0.024	0.023583771
Hexachlorobutadiene		MG/KG	0	20	0%			0%			0%	0.028	0.027020646
Hexachlorocyclopentadiene		MG/KG	0	4	0%			0%			0%	0.032	0.031215641

TABLE N-4
DESCRIPTIVE STATISTICS: SEDIMENT SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Sediment ERL [(a)]	Number of Sediment ERL [(a)] Exceedances	Sediment ERL Exceedance Frequency	Sediment ERM [(b)]	Number of Sediment ERM [(b)] Exceedances	Sediment ERM Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
Hexachloroethane		MG/KG	0	20	0%			0%			0%	0.021	0.02056342
Indeno (1,2,3-C,d) Pyrene	0.401	MG/KG	18	20	90%			0%			0%	0.184	0.133983697
Isophorone		MG/KG	0	20	0%			0%			0%	0.021	0.020412134
Naphthalene	0.142	MG/KG	6	20	30%	0.16		0%	2.1		0%	0.047	0.036301808
Nitrobenzene		MG/KG	0	20	0%			0%			0%	0.029	0.028675876
N-Nitroso-Di-N-Propylamine		MG/KG	0	20	0%			0%			0%	0.027	0.026360682
N-Nitrosodiphenylamine		MG/KG	0	20	0%			0%			0%	0.017	0.016959014
Pentachlorophenol		MG/KG	0	20	0%			0%			0%	0.047	0.046110634
Phenanthrene	1.34	MG/KG	18	20	90%	0.24	6	30%	1.5		0%	0.235	0.142207016
Phenol		MG/KG	0	20	0%			0%			0%	0.052	0.050992091
Pyrene	3.08	MG/KG	20	20	100%	0.665	9	45%	2.6	3	15%	1.059	0.602484072
1,1,1-Trichloroethane		MG/KG	0	18	0%			0%			0%	0.001	0.000735308
1,1,2,2-Tetrachloroethane		MG/KG	0	18	0%			0%			0%	0.001	0.000707837
1,1,2-Trichloroethane		MG/KG	0	18	0%			0%			0%	0.001	0.000662308
1,1-Dichloroethane		MG/KG	0	18	0%			0%			0%	0.001	0.000594034
1,1-Dichloroethene		MG/KG	0	18	0%			0%			0%	0.001	0.000853645
1,2-Dibromoethane		MG/KG	0	18	0%			0%			0%	0.001	0.000702672
1,2-Dichloroethane		MG/KG	0	18	0%			0%			0%	0.001	0.000676947
1,2-Dichloropropane		MG/KG	0	18	0%			0%			0%	0.001	0.000692812
2-Butanone (MEK)	0.023	MG/KG	1	18	6%			0%			0%	0.005	0.003755251
2-Hexanone		MG/KG	0	18	0%			0%			0%	0.002	0.001689436
4-Methyl-2-Pentanone (MIBK)		MG/KG	0	18	0%			0%			0%	0.003	0.0024752
Acetic Acid, Methyl Ester		MG/KG	0	18	0%			0%			0%	0.002	0.001752261
Acetone	0.202	MG/KG	9	18	50%			0%			0%	0.032	0.012464101
Benzaldehyde		MG/KG	0	20	0%			0%			0%	0.046	0.044975204
Benzene	0.0018	MG/KG	1	18	6%			0%			0%	0.001	0.000628618
Bromodichloromethane		MG/KG	0	18	0%			0%			0%	0.001	0.000567745
Bromoform		MG/KG	0	18	0%			0%			0%	0.001	0.000536735
Bromomethane		MG/KG	0	18	0%			0%			0%	0.000	0.000458767
Carbon Disulfide	0.0304	MG/KG	18	18	100%			0%			0%	0.008	0.006120806
Carbon Tetrachloride		MG/KG	0	18	0%			0%			0%	0.001	0.001179882
Chlorobenzene	0.0032	MG/KG	5	18	28%			0%			0%	0.001	0.000838315
Chlorodibromomethane		MG/KG	0	18	0%			0%			0%	0.001	0.000688017
Chloroethane		MG/KG	0	18	0%			0%			0%	0.002	0.002168543

TABLE N-4
DESCRIPTIVE STATISTICS: SEDIMENT SAMPLES
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Sediment ERL [(a)]	Number of Sediment ERL [(a)] Exceedances	Sediment ERL Exceedance Frequency	Sediment ERM [(b)]	Number of Sediment ERM [(b)] Exceedances	Sediment ERM Exceedance Frequency	Mean Concentration ND=1/2DL	Mean Concentration ND=1/2DL
Chloroform		MG/KG	0	18	0%			0%			0%	0.001	0.000726832
Chloromethane		MG/KG	0	18	0%			0%			0%	0.001	0.000574429
Cis-1,2-Dichloroethene		MG/KG	0	18	0%			0%			0%	0.001	0.000833536
Cis-1,3-Dichloropropene		MG/KG	0	18	0%			0%			0%	0.001	0.00051289
Cyclohexane		MG/KG	0	18	0%			0%			0%	0.002	0.001591544
DBCP		MG/KG	0	18	0%			0%			0%	0.003	0.002675438
Dichlorodifluoromethane		MG/KG	0	18	0%			0%			0%	0.001	0.000991339
Ethylbenzene	0.0039	MG/KG	4	18	22%			0%			0%	0.001	0.000780037
Isopropylbenzene		MG/KG	0	18	0%			0%			0%	0.001	0.000576565
M,P-Xylene (sum Of Isomers)	0.0099	MG/KG	5	18	28%			0%			0%	0.002	0.00173451
Methylcyclohexane		MG/KG	0	18	0%			0%			0%	0.001	0.000801467
Methylene Chloride	0.0166	MG/KG	3	18	17%			0%			0%	0.002	0.001272107
O-xylene	0.0208	MG/KG	6	18	33%			0%			0%	0.003	0.001404391
Styrene		MG/KG	0	18	0%			0%			0%	0.000	0.000406334
Tert-Butyl Methyl Ether		MG/KG	0	18	0%			0%			0%	0.001	0.000698554
Tetrachloroethylene(PERC)		MG/KG	0	18	0%			0%			0%	0.001	0.001021595
Toluene		MG/KG	0	18	0%			0%			0%	0.001	0.000674801
Trans-1,2-Dichloroethene		MG/KG	0	18	0%			0%			0%	0.001	0.000853645
Trans-1,3-Dichloropropene		MG/KG	0	18	0%			0%			0%	0.000	0.000483142
Trichloroethene (TCE)		MG/KG	0	18	0%			0%			0%	0.001	0.000649173
Trichlorofluoromethane		MG/KG	0	18	0%			0%			0%	0.001	0.000901747
Trichlorotrifluoroethane		MG/KG	0	18	0%			0%			0%	0.001	0.00106672
Vinyl Chloride		MG/KG	0	18	0%			0%			0%	0.001	0.000805039
Xylenes, Mixed	0.0307	MG/KG	6	18	33%			0%			0%	0.005	0.001602927

Notes:
(a) Effects Range-Low per Appendix D - Screening Levels for Chemicals Evaluated, USEPA
(b) Effects Range-Median per Appendix D - Screening Levels for Chemicals Evaluated, USEPA
MG/KG = milligram per kilogram

TABLE N-5
CHEMICAL CONCENTRATIONS IN SEDIMENT BY DEPTH
Old Place Creek, Staten Island, New York

						Analyte Concentrion (mg/kg)								
Sample Location	Top Depth (ft)	Bottom Depth (ft)	% Gravel	% Sand	% Fines	Mercury	Arsenic	Cadmium	Copper	Lead	Nickel	Silver	Zinc	Total PCBs
SED-W-1	0	0.5	59.3	38	2.6	3.1 J	28 J	0.16 UJ	257 J	197 J	42.2 J	0.29 UJ	284 J	ND
SED-W-2	0	0.5	--	--	--	11.3 J	37.2 J	7.1 J	548 J	403 J	59.5 J	5.7 J	554 J	ND
SED-W-2	1	1.5	--	--	--	0.34 J	23.9	0.092 U	104	96.8 J	32.5 J	0.17 U	180 J	ND
SED-W-3	0	0.5	83.3	12	4.3	1.1 J	24.1 J	0.12 UJ	91.8 J	116 J	44.3 J	0.22 UJ	226 J	ND
SED-X-1	0	0.5	9.1	69.9	21	2.2 J	22.4 J	1.2 UJ	196 J	141 J	30.9 J	2.4 U	222 J	ND
SED-X-2	0	0.5	--	--	--	14.7 J	46.6 J	10.4 J	628 J	402 J	60.5 J	5 J	645 J	0.443
SED-X-2	0.5	1	--	--	--	8.1	44.5	7.6	415 J	300 J	47.1	3.2	455	0.706
SED-X-2	1	1.5	--	--	--	0.71	21.8	0.99 U	56.8 J	76.1 J	31.3	2 U	135	ND
SED-X-3	0	0.5	0	81.8	18.2	3.6 J	46.1 J	1.5 J	292 J	224 J	41.2 J	2.7 UJ	325 J	ND
SED-Y-1	0	0.5	0.16	76.7	23.1	3 J	31.9 J	2.1 J	318 J	230 J	43.2 J	3.2 UJ	348 J	ND
SED-Y-2	0	0.5	--	--	--	5 J	33.4 J	3 J	361 J	266 J	42.1 J	2.6 UJ	361 J	ND
SED-Y-2	0.5	1	--	--	--	14.9 J	51.7 J	14.3 J	840 J	500 J	66.9 J	7.5 J	821 J	1.044
SED-Y-2	1	1.5	--	--	--	16	39.2	3.5	168 J	153 J	36.8	2 U	249	0.156
SED-Y-2	1.5	2	--	--	--	0.46	25.4	0.93 U	50.2 J	85.9 J	31.1	1.9 U	131	ND
SED-Y-3	0	0.5	0	79.1	20.9	2.7 J	33.4 J	1.5 UJ	291 J	242 J	45.4 J	2.9 UJ	300 J	ND
SED-Z-1	0	0.5	0	72.7	27.3	2.9 J	30.1 J	2.1 J	270 J	208 J	38.8 J	2.9 UJ	297 J	ND
SED-Z-2	0	0.5	1.4	14	85	4.6 J	33 J	2.8 J	325 J	276 J	45.2 J	3.1 UJ	343 J	ND
SED-Z-2	0.5	1	--	--	--	30.4 J	60.4 J	22.2 J	1120 J	443 J	82.3 J	7.5 J	988 J	1.194
SED-Z-2	1	1.5	--	--	--	10.5	47.1	7.8	446 J	293 J	42.7	2.8	439	0.576
SED-Z-3	0	0.5	2.3	73.2	24.6	2.2 J	26.7 J	1.4 J	199 J	155 J	34.1 J	2.4 UJ	215 J	ND

TABLE N-6a
SEDIMENT RESULTS EXCEEDING EFFECTS RANGE LOW
Old Place Creek, Staten Island, New York

Analyte	Sample Location	Top Depth	Bottom Depth	Concentration (mg/kg)	Sediment ERL [(a)]
Old Place Creek					
Arsenic	SED-W-1	0	0.5	28	8.2
Arsenic	SED-W-2	0	0.5	37.2	8.2
Arsenic	SED-W-2	1	1.5	23.9	8.2
Arsenic	SED-W-3	0	0.5	24.1	8.2
Arsenic	SED-X-1	0	0.5	22.4	8.2
Arsenic	SED-X-2	0	0.5	46.6	8.2
Arsenic	SED-X-2	0.5	1	44.5	8.2
Arsenic	SED-X-2	1	1.5	21.8	8.2
Arsenic	SED-X-3	0	0.5	46.1	8.2
Arsenic	SED-Y-1	0	0.5	31.9	8.2
Arsenic	SED-Y-2	0	0.5	33.4	8.2
Arsenic	SED-Y-2	0.5	1	51.7	8.2
Arsenic	SED-Y-2	1	1.5	39.2	8.2
Arsenic	SED-Y-2	1.5	2	25.4	8.2
Arsenic	SED-Y-3	0	0.5	33.4	8.2
Arsenic	SED-Z-1	0	0.5	30.1	8.2
Arsenic	SED-Z-2	0	0.5	33	8.2
Arsenic	SED-Z-2	0.5	1	60.4	8.2
Arsenic	SED-Z-2	1	1.5	47.1	8.2
Arsenic	SED-Z-3	0	0.5	26.7	8.2
Cadmium	SED-W-2	0	0.5	7.1	1.2
Cadmium	SED-X-2	0	0.5	10.4	1.2
Cadmium	SED-X-2	0.5	1	7.6	1.2
Cadmium	SED-X-3	0	0.5	1.5	1.2
Cadmium	SED-Y-1	0	0.5	2.1	1.2
Cadmium	SED-Y-2	0	0.5	3	1.2
Cadmium	SED-Y-2	0.5	1	14.3	1.2
Cadmium	SED-Y-2	1	1.5	3.5	1.2
Cadmium	SED-Z-1	0	0.5	2.1	1.2
Cadmium	SED-Z-2	0	0.5	2.8	1.2
Cadmium	SED-Z-2	0.5	1	22.2	1.2
Cadmium	SED-Z-2	1	1.5	7.8	1.2
Cadmium	SED-Z-3	0	0.5	1.4	1.2
Chromium	SED-W-1	0	0.5	112	81
Chromium	SED-W-2	0	0.5	248	81
Chromium	SED-X-1	0	0.5	82.6	81
Chromium	SED-X-2	0	0.5	281	81
Chromium	SED-X-2	0.5	1	256	81
Chromium	SED-X-3	0	0.5	110	81
Chromium	SED-Y-1	0	0.5	130	81
Chromium	SED-Y-2	0	0.5	152	81
Chromium	SED-Y-2	0.5	1	399	81
Chromium	SED-Y-2	1	1.5	97.2	81

TABLE N-6a
SEDIMENT RESULTS EXCEEDING EFFECTS RANGE LOW
Old Place Creek, Staten Island, New York

Analyte	Sample Location	Top Depth	Bottom Depth	Concentration (mg/kg)	Sediment ERL [(a)]
Chromium	SED-Y-3	0	0.5	126	81
Chromium	SED-Z-1	0	0.5	110	81
Chromium	SED-Z-2	0	0.5	142	81
Chromium	SED-Z-2	0.5	1	424	81
Chromium	SED-Z-2	1	1.5	235	81
Chromium	SED-Z-3	0	0.5	82.5	81
Copper	SED-W-1	0	0.5	257	34
Copper	SED-W-2	0	0.5	548	34
Copper	SED-W-2	1	1.5	104	34
Copper	SED-W-3	0	0.5	91.8	34
Copper	SED-X-1	0	0.5	196	34
Copper	SED-X-2	0	0.5	628	34
Copper	SED-X-2	0.5	1	415	34
Copper	SED-X-2	1	1.5	56.8	34
Copper	SED-X-3	0	0.5	292	34
Copper	SED-Y-1	0	0.5	318	34
Copper	SED-Y-2	0	0.5	361	34
Copper	SED-Y-2	0.5	1	840	34
Copper	SED-Y-2	1	1.5	168	34
Copper	SED-Y-2	1.5	2	50.2	34
Copper	SED-Y-3	0	0.5	291	34
Copper	SED-Z-1	0	0.5	270	34
Copper	SED-Z-2	0	0.5	325	34
Copper	SED-Z-2	0.5	1	1120	34
Copper	SED-Z-2	1	1.5	446	34
Copper	SED-Z-3	0	0.5	199	34
Lead	SED-W-1	0	0.5	197	47
Lead	SED-W-2	0	0.5	403	47
Lead	SED-W-2	1	1.5	96.8	47
Lead	SED-W-3	0	0.5	116	47
Lead	SED-X-1	0	0.5	141	47
Lead	SED-X-2	0	0.5	402	47
Lead	SED-X-2	0.5	1	300	47
Lead	SED-X-2	1	1.5	76.1	47
Lead	SED-X-3	0	0.5	224	47
Lead	SED-Y-1	0	0.5	230	47
Lead	SED-Y-2	0	0.5	266	47
Lead	SED-Y-2	0.5	1	500	47
Lead	SED-Y-2	1	1.5	153	47
Lead	SED-Y-2	1.5	2	85.9	47
Lead	SED-Y-3	0	0.5	242	47
Lead	SED-Z-1	0	0.5	208	47
Lead	SED-Z-2	0	0.5	276	47
Lead	SED-Z-2	0.5	1	443	47

TABLE N-6a
SEDIMENT RESULTS EXCEEDING EFFECTS RANGE LOW
Old Place Creek, Staten Island, New York

Analyte	Sample Location	Top Depth	Bottom Depth	Concentration (mg/kg)	Sediment ERL [(a)]
Lead	SED-Z-2	1	1.5	293	47
Lead	SED-Z-3	0	0.5	155	47
Mercury	SED-W-1	0	0.5	3.1	0.15
Mercury	SED-W-2	0	0.5	11.3	0.15
Mercury	SED-W-2	1	1.5	0.34	0.15
Mercury	SED-W-3	0	0.5	1.1	0.15
Mercury	SED-X-1	0	0.5	2.2	0.15
Mercury	SED-X-2	0	0.5	14.7	0.15
Mercury	SED-X-2	0.5	1	8.1	0.15
Mercury	SED-X-2	1	1.5	0.71	0.15
Mercury	SED-X-3	0	0.5	3.6	0.15
Mercury	SED-Y-1	0	0.5	3	0.15
Mercury	SED-Y-2	0	0.5	5	0.15
Mercury	SED-Y-2	0.5	1	14.9	0.15
Mercury	SED-Y-2	1	1.5	16	0.15
Mercury	SED-Y-2	1.5	2	0.46	0.15
Mercury	SED-Y-3	0	0.5	2.7	0.15
Mercury	SED-Z-1	0	0.5	2.9	0.15
Mercury	SED-Z-2	0	0.5	4.6	0.15
Mercury	SED-Z-2	0.5	1	30.4	0.15
Mercury	SED-Z-2	1	1.5	10.5	0.15
Mercury	SED-Z-3	0	0.5	2.2	0.15
Nickel	SED-W-1	0	0.5	42.2	21
Nickel	SED-W-2	0	0.5	59.5	21
Nickel	SED-W-2	1	1.5	32.5	21
Nickel	SED-W-3	0	0.5	44.3	21
Nickel	SED-X-1	0	0.5	30.9	21
Nickel	SED-X-2	0	0.5	60.5	21
Nickel	SED-X-2	0.5	1	47.1	21
Nickel	SED-X-2	1	1.5	31.3	21
Nickel	SED-X-3	0	0.5	41.2	21
Nickel	SED-Y-1	0	0.5	43.2	21
Nickel	SED-Y-2	0	0.5	42.1	21
Nickel	SED-Y-2	0.5	1	66.9	21
Nickel	SED-Y-2	1	1.5	36.8	21
Nickel	SED-Y-2	1.5	2	31.1	21
Nickel	SED-Y-3	0	0.5	45.4	21
Nickel	SED-Z-1	0	0.5	38.8	21
Nickel	SED-Z-2	0	0.5	45.2	21
Nickel	SED-Z-2	0.5	1	82.3	21
Nickel	SED-Z-2	1	1.5	42.7	21
Nickel	SED-Z-3	0	0.5	34.1	21
Silver	SED-W-2	0	0.5	5.7	1
Silver	SED-X-2	0	0.5	5	1

TABLE N-6a
SEDIMENT RESULTS EXCEEDING EFFECTS RANGE LOW
Old Place Creek, Staten Island, New York

Analyte	Sample Location	Top Depth	Bottom Depth	Concentration (mg/kg)	Sediment ERL [(a)]
Silver	SED-X-2	0.5	1	3.2	1
Silver	SED-Y-2	0.5	1	7.5	1
Silver	SED-Z-2	0.5	1	7.5	1
Silver	SED-Z-2	1	1.5	2.8	1
Zinc	SED-W-1	0	0.5	284	150
Zinc	SED-W-2	0	0.5	554	150
Zinc	SED-W-2	1	1.5	180	150
Zinc	SED-W-3	0	0.5	226	150
Zinc	SED-X-1	0	0.5	222	150
Zinc	SED-X-2	0	0.5	645	150
Zinc	SED-X-2	0.5	1	455	150
Zinc	SED-X-3	0	0.5	325	150
Zinc	SED-Y-1	0	0.5	348	150
Zinc	SED-Y-2	0	0.5	361	150
Zinc	SED-Y-2	0.5	1	821	150
Zinc	SED-Y-2	1	1.5	249	150
Zinc	SED-Y-3	0	0.5	300	150
Zinc	SED-Z-1	0	0.5	297	150
Zinc	SED-Z-2	0	0.5	343	150
Zinc	SED-Z-2	0.5	1	988	150
Zinc	SED-Z-2	1	1.5	439	150
Zinc	SED-Z-3	0	0.5	215	150
Aroclor 1248	SED-X-2	0	0.5	0.443	0.023
Aroclor 1248	SED-X-2	0.5	1	0.579	0.023
Aroclor 1248	SED-Y-2	0.5	1	0.885	0.023
Aroclor 1248	SED-Y-2	1	1.5	0.156	0.023
Aroclor 1248	SED-Z-2	0.5	1	1.02	0.023
Aroclor 1248	SED-Z-2	1	1.5	0.464	0.023
Aroclor 1260	SED-X-2	0.5	1	0.127	0.023
Aroclor 1260	SED-Y-2	0.5	1	0.159	0.023
Aroclor 1260	SED-Z-2	0.5	1	0.174	0.023
Aroclor 1260	SED-Z-2	1	1.5	0.112	0.023
2-Methylnaphthalene	SED-X-2	0	0.5	0.0855 J	0.07
2-Methylnaphthalene	SED-X-2	0.5	1	0.0709 J	0.07
2-Methylnaphthalene	SED-Y-2	0.5	1	0.0819 J	0.07
2-Methylnaphthalene	SED-Y-2	1	1.5	0.123 J	0.07
2-Methylnaphthalene	SED-Z-2	1	1.5	0.145	0.07
Acenaphthene	SED-X-2	0	0.5	0.0941 J	0.016
Acenaphthene	SED-Y-2	0.5	1	0.305	0.016
Acenaphthene	SED-Y-2	1	1.5	0.0628 J	0.016
Acenaphthene	SED-Z-2	1	1.5	0.287	0.016
Acenaphthylene	SED-W-2	0	0.5	0.165 J	0.044
Acenaphthylene	SED-X-2	0	0.5	0.139 J	0.044
Acenaphthylene	SED-X-2	0.5	1	0.197	0.044

TABLE N-6a
SEDIMENT RESULTS EXCEEDING EFFECTS RANGE LOW
Old Place Creek, Staten Island, New York

Analyte	Sample Location	Top Depth	Bottom Depth	Concentration (mg/kg)	Sediment ERL [(a)]
Acenaphthylene	SED-X-3	0	0.5	0.0761 J	0.044
Acenaphthylene	SED-Y-1	0	0.5	0.0734 J	0.044
Acenaphthylene	SED-Y-2	0	0.5	0.115 J	0.044
Acenaphthylene	SED-Y-2	0.5	1	0.178	0.044
Acenaphthylene	SED-Y-3	0	0.5	0.0636 J	0.044
Acenaphthylene	SED-Z-1	0	0.5	0.0729 J	0.044
Acenaphthylene	SED-Z-2	0	0.5	0.169 J	0.044
Acenaphthylene	SED-Z-2	0.5	1	0.18	0.044
Acenaphthylene	SED-Z-2	1	1.5	0.259	0.044
Acenaphthylene	SED-Z-3	0	0.5	0.0679 J	0.044
Anthracene	SED-W-2	0	0.5	0.287	0.085
Anthracene	SED-X-2	0	0.5	0.321	0.085
Anthracene	SED-X-2	0.5	1	0.76	0.085
Anthracene	SED-X-3	0	0.5	0.102 J	0.085
Anthracene	SED-Y-2	0	0.5	0.149 J	0.085
Anthracene	SED-Y-2	0.5	1	0.714	0.085
Anthracene	SED-Y-2	1	1.5	0.166	0.085
Anthracene	SED-Y-3	0	0.5	0.0869 J	0.085
Anthracene	SED-Z-1	0	0.5	0.136 J	0.085
Anthracene	SED-Z-2	0	0.5	0.221	0.085
Anthracene	SED-Z-2	0.5	1	1.06	0.085
Anthracene	SED-Z-2	1	1.5	1.14	0.085
Anthracene	SED-Z-3	0	0.5	0.108 J	0.085
Benzo (a) Anthracene	SED-W-2	0	0.5	0.518	0.261
Benzo (a) Anthracene	SED-X-2	0	0.5	0.583	0.261
Benzo (a) Anthracene	SED-X-2	0.5	1	0.807	0.261
Benzo (a) Anthracene	SED-X-3	0	0.5	0.344	0.261
Benzo (a) Anthracene	SED-Y-1	0	0.5	0.267	0.261
Benzo (a) Anthracene	SED-Y-2	0	0.5	0.445	0.261
Benzo (a) Anthracene	SED-Y-2	0.5	1	1.01	0.261
Benzo (a) Anthracene	SED-Y-3	0	0.5	0.267	0.261
Benzo (a) Anthracene	SED-Z-1	0	0.5	0.32	0.261
Benzo (a) Anthracene	SED-Z-2	0	0.5	1.05	0.261
Benzo (a) Anthracene	SED-Z-2	0.5	1	0.82	0.261
Benzo (a) Anthracene	SED-Z-2	1	1.5	1.06	0.261
Benzo (a) Anthracene	SED-Z-3	0	0.5	0.312	0.261
Benzo (a) Pyrene	SED-W-2	0	0.5	0.5	0.43
Benzo (a) Pyrene	SED-X-2	0	0.5	0.573	0.43
Benzo (a) Pyrene	SED-X-2	0.5	1	0.688	0.43
Benzo (a) Pyrene	SED-Y-2	0	0.5	0.527	0.43
Benzo (a) Pyrene	SED-Y-2	0.5	1	0.77	0.43
Benzo (a) Pyrene	SED-Z-2	0	0.5	0.935	0.43
Benzo (a) Pyrene	SED-Z-2	0.5	1	0.639	0.43
Benzo (a) Pyrene	SED-Z-2	1	1.5	0.996	0.43

TABLE N-6a
SEDIMENT RESULTS EXCEEDING EFFECTS RANGE LOW
Old Place Creek, Staten Island, New York

Analyte	Sample Location	Top Depth	Bottom Depth	Concentration (mg/kg)	Sediment ERL [(a)]
Chrysene	SED-W-2	0	0.5	0.732	0.384
Chrysene	SED-X-2	0	0.5	0.712	0.384
Chrysene	SED-X-2	0.5	1	1.01	0.384
Chrysene	SED-Y-2	0	0.5	0.474	0.384
Chrysene	SED-Y-2	0.5	1	1.4	0.384
Chrysene	SED-Y-3	0	0.5	0.405	0.384
Chrysene	SED-Z-2	0	0.5	1.37	0.384
Chrysene	SED-Z-2	0.5	1	1.2	0.384
Chrysene	SED-Z-2	1	1.5	1.35	0.384
Chrysene	SED-Z-3	0	0.5	0.42	0.384
Dibenz (a,H) Anthracene	SED-W-2	0	0.5	0.0804 J	0.0634
Dibenz (a,H) Anthracene	SED-X-2	0	0.5	0.0963 J	0.0634
Dibenz (a,H) Anthracene	SED-X-2	0.5	1	0.135	0.0634
Dibenz (a,H) Anthracene	SED-X-3	0	0.5	0.0673 J	0.0634
Dibenz (a,H) Anthracene	SED-Y-2	0	0.5	0.0927 J	0.0634
Dibenz (a,H) Anthracene	SED-Z-2	0	0.5	0.149 J	0.0634
Dibenz (a,H) Anthracene	SED-Z-2	1	1.5	0.165	0.0634
Fluoranthene	SED-W-2	0	0.5	1.3	0.6
Fluoranthene	SED-X-2	0	0.5	1.4	0.6
Fluoranthene	SED-X-2	0.5	1	1.58	0.6
Fluoranthene	SED-Y-2	0	0.5	0.72	0.6
Fluoranthene	SED-Y-2	0.5	1	3.4	0.6
Fluoranthene	SED-Z-2	0	0.5	3.69	0.6
Fluoranthene	SED-Z-2	0.5	1	2.22	0.6
Fluoranthene	SED-Z-2	1	1.5	2.09	0.6
Fluoranthene	SED-Z-3	0	0.5	0.831	0.6
Fluorene	SED-Y-2	0.5	1	0.165 J	0.019
Fluorene	SED-Y-2	1	1.5	0.0955 J	0.019
Fluorene	SED-Z-2	1	1.5	0.292	0.019
Phenanthrene	SED-X-2	0	0.5	0.396	0.24
Phenanthrene	SED-Y-2	0.5	1	0.398	0.24
Phenanthrene	SED-Y-2	1	1.5	0.309	0.24
Phenanthrene	SED-Z-2	0	0.5	0.249	0.24
Phenanthrene	SED-Z-2	1	1.5	1.34	0.24
Phenanthrene	SED-Z-3	0	0.5	0.265	0.24
Pyrene	SED-W-2	0	0.5	1.49	0.665
Pyrene	SED-X-2	0	0.5	1.61	0.665
Pyrene	SED-X-2	0.5	1	1.72	0.665
Pyrene	SED-Y-2	0	0.5	0.846	0.665
Pyrene	SED-Y-2	0.5	1	2.82	0.665
Pyrene	SED-Z-2	0	0.5	3.08	0.665
Pyrene	SED-Z-2	0.5	1	2.98	0.665
Pyrene	SED-Z-2	1	1.5	2.29	0.665
Pyrene	SED-Z-3	0	0.5	0.716	0.665

TABLE N-6b
SEDIMENT RESULTS EXCEEDING EFFECTS RANGE MEDIAN
Old Place Creek, Staten Island, New York

Analyte	Sample Location	Top Depth	Bottom Depth	Concentration (mg/kg)	Sediment ERM [(a)]
Old Place Creek					
Cadmium	SED-X-2	0	0.5	10.4	9.6
Cadmium	SED-Y-2	0.5	1	14.3	9.6
Cadmium	SED-Z-2	0.5	1	22.2	9.6
Chromium	SED-Y-2	0.5	1	399	370
Chromium	SED-Z-2	0.5	1	424	370
Copper	SED-W-2	0	0.5	548	270
Copper	SED-X-2	0	0.5	628	270
Copper	SED-X-2	0.5	1	415	270
Copper	SED-X-3	0	0.5	292	270
Copper	SED-Y-1	0	0.5	318	270
Copper	SED-Y-2	0	0.5	361	270
Copper	SED-Y-2	0.5	1	840	270
Copper	SED-Y-3	0	0.5	291	270
Copper	SED-Z-2	0	0.5	325	270
Copper	SED-Z-2	0.5	1	1120	270
Copper	SED-Z-2	1	1.5	446	270
Lead	SED-W-2	0	0.5	403	218
Lead	SED-X-2	0	0.5	402	218
Lead	SED-X-2	0.5	1	300	218
Lead	SED-X-3	0	0.5	224	218
Lead	SED-Y-1	0	0.5	230	218
Lead	SED-Y-2	0	0.5	266	218
Lead	SED-Y-2	0.5	1	500	218
Lead	SED-Y-3	0	0.5	242	218
Lead	SED-Z-2	0	0.5	276	218
Lead	SED-Z-2	0.5	1	443	218
Lead	SED-Z-2	1	1.5	293	218
Mercury	SED-W-1	0	0.5	3.1	0.71
Mercury	SED-W-2	0	0.5	11.3	0.71
Mercury	SED-W-3	0	0.5	1.1	0.71
Mercury	SED-X-1	0	0.5	2.2	0.71
Mercury	SED-X-2	0	0.5	14.7	0.71
Mercury	SED-X-2	0.5	1	8.1	0.71
Mercury	SED-X-3	0	0.5	3.6	0.71
Mercury	SED-Y-1	0	0.5	3	0.71
Mercury	SED-Y-2	0	0.5	5	0.71
Mercury	SED-Y-2	0.5	1	14.9	0.71
Mercury	SED-Y-2	1	1.5	16	0.71
Mercury	SED-Y-3	0	0.5	2.7	0.71
Mercury	SED-Z-1	0	0.5	2.9	0.71
Mercury	SED-Z-2	0	0.5	4.6	0.71
Mercury	SED-Z-2	0.5	1	30.4	0.71
Mercury	SED-Z-2	1	1.5	10.5	0.71
Mercury	SED-Z-3	0	0.5	2.2	0.71

TABLE N-6b
SEDIMENT RESULTS EXCEEDING EFFECTS RANGE MEDIAN
Old Place Creek, Staten Island, New York

Analyte	Sample Location	Top Depth	Bottom Depth	Concentration (mg/kg)	Sediment ERM [(a)]
Nickel	SED-W-2	0	0.5	59.5	52
Nickel	SED-X-2	0	0.5	60.5	52
Nickel	SED-Y-2	0.5	1	66.9	52
Nickel	SED-Z-2	0.5	1	82.3	52
Silver	SED-W-2	0	0.5	5.7	3.7
Silver	SED-X-2	0	0.5	5	3.7
Silver	SED-Y-2	0.5	1	7.5	3.7
Silver	SED-Z-2	0.5	1	7.5	3.7
Zinc	SED-W-2	0	0.5	554	410
Zinc	SED-X-2	0	0.5	645	410
Zinc	SED-X-2	0.5	1	455	410
Zinc	SED-Y-2	0.5	1	821	410
Zinc	SED-Z-2	0.5	1	988	410
Zinc	SED-Z-2	1	1.5	439	410
Aroclor 1248	SED-X-2	0	0.5	0.443	0.18
Aroclor 1248	SED-X-2	0.5	1	0.579	0.18
Aroclor 1248	SED-Y-2	0.5	1	0.885	0.18
Aroclor 1248	SED-Z-2	0.5	1	1.02	0.18
Aroclor 1248	SED-Z-2	1	1.5	0.464	0.18
Anthracene	SED-Z-2	1	1.5	1.14	1.1
Pyrene	SED-Y-2	0.5	1	2.82	2.6
Pyrene	SED-Z-2	0	0.5	3.08	2.6
Pyrene	SED-Z-2	0.5	1	2.98	2.6

TABLE N-7
METHYL MERCURY IN SEDIMENT
Old Place Creek, Staten Island, New York

Sample Location	Top Depth (ft)	Bottom Depth (ft)	Total Mercury (mg/kg)	Methyl Mercury (ng/g)	% Methyl Mercury of Total Mercury
SED-W-1	0	0.5	3.1 J	1.5	0.05%
SED-W-2	0	0.5	11.3 J	0.6 J	0.01%
SED-W-2	0.5	1	--	0.3 J	N/A
SED-W-2	1	1.5	0.34 J	0.1 U	N/A
SED-W-3	0	0.5	1.1 J	0.2 U	N/A
SED-X-1	0	0.5	2.2 J	7 J	0.32%
SED-X-2	0	0.5	14.7 J	1 UJ	N/A
SED-X-2	0.5	1	8.1	0.4 U	N/A
SED-X-2	1	1.5	0.71	0.3 U	N/A
SED-X-3	0	0.5	3.6 J	5.4 J	0.15%
SED-Y-1	0	0.5	3 J	5.8 J	0.19%
SED-Y-2	0	0.5	5 J	2.9 J	0.06%
SED-Y-2	0.5	1	14.9 J	1.1 UJ	N/A
SED-Y-2	1	1.5	16	0.5 UJ	N/A
SED-Y-2	1.5	2	0.46	0.2 U	N/A
SED-Y-3	0	0.5	2.7 J	7.9 J	0.29%
SED-Z-1	0	0.5	2.9 J	7 J	0.24%
SED-Z-2	0	0.5	4.6 J	1.2 UJ	N/A
SED-Z-2	0.5	1	30.4 J	0.6 UJ	N/A
SED-Z-2	1	1.5	10.5	0.3 U	N/A
SED-Z-3	0	0.5	2.2 J	8.6 J	0.39%

Notes:
% Methyl Mercury not calculated for non-detects

TABLE N-8
SUMMARY OF AVS AND SEM IN SEDIMENT
Old Place Creek, Staten Island, New York

Sample ID	AVS [(a)] (umoles/g)	Total SEM [(b)] (umoles/g)	AVS / total SEM (umolesAVS/umolesSEM)
SED-W-1-0-0.5	0.007	0.11	0.062
SED-W-3-0-0.5	0.007	0.086	0.081
SED-X-1-0-0.5	2.3	0.086	27
SED-X-3-0-0.5	0.6	0.1	6
SED-Y-1-0-0.5	2.4	0.11	21
SED-Y-3-0-0.5	2.6	0.1	25
SED-Z-1-0-0.5	0.21	0.099	2.1
SED-Z-2-0-0.5	2.7	0.11	24
SED-Z-3-0-0.5	2.1	0.089	24

Notes:
(a) Acid Volatile Sulfide
(b) Simultaneously Extractable Metals
umoles/g = micro moles per gram

TABLE N-9
SUMMARY OF PCBs IN SEDMENT
Old Place Creek, Staten Island, New York

Sample ID	Top Depth (ft)	Bottom Depth (ft)	Analyte	Concentration (mg/kg)
SED-X-2-0.5-1.0	0.5	1	Aroclor 1248	0.579
SED-X-2-0-0.5	0	0.5	Aroclor 1248	0.443 J
SED-Y-2-0.5-1.0	0.5	1	Aroclor 1248	0.885 J
SED-Y-2-1.0-1.5	1	1.5	Aroclor 1248	0.156
SED-Z-2-0.5-1.0	0.5	1	Aroclor 1248	1.02 J
SED-Z-2-1.0-1.5	1	1.5	Aroclor 1248	0.464
SED-X-2-0.5-1.0	0.5	1	Aroclor 1260	0.127
SED-Y-2-0.5-1.0	0.5	1	Aroclor 1260	0.159 J
SED-Z-2-0.5-1.0	0.5	1	Aroclor 1260	0.174 J
SED-Z-2-1.0-1.5	1	1.5	Aroclor 1260	0.112

Notes:
ft - feet
mg/kg - microgram per kilogram

TABLE N-10
SUMMARY OF PAHs IN SEDMENT
Old Place Creek, Staten Island, New York

Sample ID	Top Depth (ft)	Bottom Depth (ft)	Total PAH Concentration (mg/kg)
SED-W-1-0-0.5	0	0.5	2.424
SED-W-2-0-0.5	0	0.5	6.8574
SED-W-2-1.0-1.5	1	1.5	0.2998
SED-W-3-0-0.5	0	0.5	1.1089
SED-X-1-0-0.5	0	0.5	1.5817
SED-X-2-0.5-1.0	0.5	1	8.9142
SED-X-2-0-0.5	0	0.5	7.7129
SED-X-2-1.0-1.5	1	1.5	0.7739
SED-X-3-0-0.5	0	0.5	3.7909
SED-Y-1-0-0.5	0	0.5	3.0856
SED-Y-2-0.5-1.0	0.5	1	13.7055
SED-Y-2-0-0.5	0	0.5	5.0992
SED-Y-2-1.0-1.5	1	1.5	2.2639
SED-Y-2-1.5-2.0	1.5	2	0.6751
SED-Y-3-0-0.5	0	0.5	3.186
SED-Z-1-0-0.5	0	0.5	3.7879
SED-Z-2-0.5-1.0	0.5	1	11.3024
SED-Z-2-0-0.5	0	0.5	13.7365
SED-Z-2-1.0-1.5	1	1.5	13.817
SED-Z-3-0-0.5	0	0.5	4.1651
		Mean	5.414395

Notes:
TOTAL PAHS includes all analyzed PAH compounds: Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)Anthracene, Benzo(a)Pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)Perylene, Benzo(k)fluoranthene, 2—Chloronaphthalene, Chrysene, Dibenz(a,h)Anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-C,d), Pyrene, 2-Methylnaphthalene, Naphthalene, Phenanthrene, and Pyrene
Nondetects treated as half the detection limit for the purpose of the sums.
ft - feet
mg/kg - milligram per kilogram

TABLE N-11
SUMMARY OF PCDD/PCDF (DIOXIN AND FURAN) RESULTS AND TEQs IN SEDIMENT
Old Place Creek, Staten Island, New York

Sample ID	Total PCDDs/PCDFs (ng/kg)	Toxicity Equivalence Quotient (TEQ)
SED-W-1-0-0.5	682	9.3
SED-W-3-0-0.5	542	1.7
SED-Y-3-0-0.5	1055	14.5

Notes:
TEQs in pg/g (ng/kg)
PCDDs/PCDFs = Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzo-p-furans
TEQ - 2,3,7,8-TCDD equivalents based on World health Organization (WHO) 2005 Toxicity Equivalence Factors (TEFs).
Calculated treating nondetects treated as zero.

TABLE N-12a
DESCRIPTIVE STATISTICS: FISH TISSUE SAMPLES (UNDEPURATED)
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Mean Concentration ND=1/2DL
TOTAL EXTRACTABLE LIPIDS	1.4	PERCENT	4	4	100%	1.3
Percent Solids	27	PERCENT	4	4	100%	26
Arsenic	2.6	MG/KG	4	4	100%	2.4
As+3 As As		UG/G	0	4	0%	0.001
As+5 As As	0.016	UG/G	4	4	100%	0.013
Asb As As	0.58	UG/G	4	4	100%	0.53
Barium	7.2	MG/KG	4	4	100%	6.4
Chromium	2.4	MG/KG	4	4	100%	1.5
Copper	29	MG/KG	4	4	100%	23
DMA As As	0.002	UG/G	2	4	50%	0.001
Iron	350	MG/KG	4	4	100%	260
Lead	2.7	MG/KG	4	4	100%	2.2
Manganese	26	MG/KG	4	4	100%	23
Mercury	0.15	MG/KG	4	4	100%	0.12
Methyl Mercury	0.13	MG/KG	4	4	100%	0.11
MMA As As		UG/G	0	4	0%	0.0001
Vanadium	1.7	MG/KG	4	4	100%	1.5
Zinc	160	MG/KG	4	4	100%	150
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB 206)	1100	NG/KG	4	4	100%	960
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB 194)	1200	NG/KG	4	4	100%	1100
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (PCB 207)	170	NG/KG	4	4	100%	150
2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195)	730	NG/KG	4	4	100%	630
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (PCB 196)	3800	NG/KG	4	4	100%	1700
2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	4600	NG/KG	4	4	100%	3800
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (PCB 197:(197+200))	350	NG/KG	4	4	100%	300
2,2',3,3',4,4',6-Heptachlorobiphenyl (PCB 171:(171+173))	1700	NG/KG	4	4	100%	1400
2,2',3,3',4,4'-Hexachlorobiphenyl (PCB 128:(128+166))	1900	NG/KG	4	4	100%	1700
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (PCB 208)	550	NG/KG	4	4	100%	470
2,2',3,3',4,5,5',6-Octachlorobiphenyl (PCB 198:(198+199))	4000	NG/KG	4	4	100%	3400
2,2',3,3',4,5,5'-Heptachlorobiphenyl (PCB 172)	1000	NG/KG	4	4	100%	890
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (PCB 201)	690	NG/KG	4	4	100%	600
2,2',3,3',4,5,6'-Heptachlorobiphenyl (PCB 174)	3700	NG/KG	3	4	75%	2600
2,2',3,3',4,5',6-Heptachlorobiphenyl (PCB 175)	2000	NG/KG	1	4	25%	520
2,2',3,3',4',5,6-Heptachlorobiphenyl (PCB 177)	3600	NG/KG	4	4	100%	2800
2,2',3,3',4,5-Hexachlorobiphenyl (PCB 129:(129+138+160+163))	15000	NG/KG	4	4	100%	15000
2,2',3,3',4,5'-Hexachlorobiphenyl (PCB 130)	160	NG/KG	3	4	75%	100
2,2',3,3',4,6,6'-Heptachlorobiphenyl (PCB 176)	340	NG/KG	4	4	100%	250
2,2',3,3',4,6-Hexachlorobiphenyl (PCB 131:(131+142))		NG/KG	0	4	0%	7.5
2,2',3,3',4,6'-Hexachlorobiphenyl (PCB 132)	3400	NG/KG	4	4	100%	3200
2,2',3,3',4-Pentachlorobiphenyl (PCB 082)	420	NG/KG	1	4	25%	110
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (PCB 202)	980	NG/KG	4	4	100%	840
2,2',3,3',5,5',6-Heptachlorobiphenyl (PCB 178)	2800	NG/KG	4	4	100%	2400
2,2',3,3',5,5'-Hexachlorobiphenyl (PCB 133)	240	NG/KG	3	4	75%	150
2,2',3,3',5,6,6'-Heptachlorobiphenyl (PCB 179)	1300	NG/KG	4	4	100%	980
2,2',3,3',5,6'-Hexachlorobiphenyl (PCB 135:(135+151+154))	3900	NG/KG	4	4	100%	3400

TABLE N-12a
DESCRIPTIVE STATISTICS: FISH TISSUE SAMPLES (UNDEPURATED)
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Mean Concentration ND=1/2DL
2,2',3,3',5-Pentachlorobiphenyl (PCB 083:(83+99))	6700	NG/KG	4	4	100%	5200
2,2',3,3',6,6'-Hexachlorobiphenyl (PCB 136)	700	NG/KG	3	4	75%	450
2,2',3,3',6-Pentachlorobiphenyl (PCB 084)	1500	NG/KG	3	4	75%	730
2,2',3,4,4',5,5',6-Octachlorobiphenyl (PCB 203)	2600	NG/KG	3	4	75%	1600
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180:(180+193))	15000	NG/KG	4	4	100%	13000
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (PCB 204)	24	NG/KG	2	4	50%	11
2,2',3,4,4',5,6-Heptachlorobiphenyl (PCB 181)	62	NG/KG	1	4	25%	19
2,2',3,4,4',5,6'-Heptachlorobiphenyl (PCB 182)		NG/KG	0	4	0%	8.3
2,2',3,4,4',5',6-Heptachlorobiphenyl (PCB 183)	2500	NG/KG	3	4	75%	1800
2,2',3,4,4',5-Hexachlorobiphenyl (PCB 137)		NG/KG	0	4	0%	4.7
2,2',3,4,4',6,6'-Heptachlorobiphenyl (PCB 184)		NG/KG	0	4	0%	1.5
2,2',3,4,4',6-Hexachlorobiphenyl (PCB 139:(139+140))	170	NG/KG	3	4	75%	89
2,2',3,4,4'-Pentachlorobiphenyl (PCB 085:(85+116+117))	3900	NG/KG	3	4	75%	2100
2,2',3,4,5,5',6-Heptachlorobiphenyl (PCB 185)		NG/KG	0	4	0%	5.3
2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)	23000	NG/KG	4	4	100%	20000
2,2',3,4,5,5'-Hexachlorobiphenyl (PCB 141)	2500	NG/KG	3	4	75%	1600
2,2',3,4',5,5'-Hexachlorobiphenyl (PCB 146)	1800	NG/KG	4	4	100%	1700
2,2',3,4,5,6,6'-Heptachlorobiphenyl (PCB 186)		NG/KG	0	4	0%	1.6
2,2',3,4',5,6,6'-Heptachlorobiphenyl (PCB 188)		NG/KG	0	4	0%	1
2,2',3,4,5,6'-Hexachlorobiphenyl (PCB 143)		NG/KG	0	4	0%	3.8
2,2',3,4,5',6-Hexachlorobiphenyl (PCB 144)	2400	NG/KG	4	4	100%	1200
2,2',3,4',5,6-Hexachlorobiphenyl (PCB 147:(147+134+149))	17000	NG/KG	4	4	100%	15000
2,2',3,4',5,6'-Hexachlorobiphenyl (PCB 148)	23	NG/KG	3	4	75%	11
2,2',3,4,5-Pentachlorobiphenyl (PCB 086:(86+97+108+119))	3800	NG/KG	4	4	100%	2900
2,2',3,4',5-Pentachlorobiphenyl (PCB 090:(90+101+113))	10000	NG/KG	4	4	100%	8100
2,2',3,4,6,6'-Hexachlorobiphenyl (PCB 145)		NG/KG	0	4	0%	0.42
2,2',3,4,6-Pentachlorobiphenyl (PCB 088:(88+91))	3100	NG/KG	4	4	100%	2400
2,2',3,4,6'-Pentachlorobiphenyl (PCB 089)	36	NG/KG	1	4	25%	9.2
2,2',3',4,6-Pentachlorobiphenyl (PCB 098:(98+102))	270	NG/KG	1	4	25%	71
2,2',3,4-Tetrachlorobiphenyl (PCB 041:(41+71+40))	5800	NG/KG	4	4	100%	4900
2,2',3,4'-Tetrachlorobiphenyl (PCB 042)	2800	NG/KG	4	4	100%	2100
2,2',3,5,5'-Pentachlorobiphenyl (PCB 092)	3100	NG/KG	4	4	100%	2400
2,2',3,5,6,6'-Hexachlorobiphenyl (PCB 152:(152+150))	8.8	NG/KG	1	4	25%	2.4
2,2',3,5,6'-Pentachlorobiphenyl (PCB 094)		NG/KG	0	4	0%	4
2,2',3,5',6-Pentachlorobiphenyl (PCB 095:(95+93+100))	12000	NG/KG	4	4	100%	9000
2,2',3,5'-Tetrachlorobiphenyl (PCB 044:(44+47+65))	10000	NG/KG	4	4	100%	8600
2,2',3,6,6'-Pentachlorobiphenyl (PCB 096)	21	NG/KG	4	4	100%	17
2,2',3,6-Tetrachlorobiphenyl (PCB 045:(45+51))	920	NG/KG	4	4	100%	720
2,2',3,6'-Tetrachlorobiphenyl (PCB 046)	45	NG/KG	2	4	50%	25
2,2',3-Trichlorobiphenyl (PCB 016)	610	NG/KG	4	4	100%	480
2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153:(153+168))	20000	NG/KG	4	4	100%	17000
2,2',4,4',6,6'-Hexachlorobiphenyl (PCB 155)	49	NG/KG	3	4	75%	29
2,2',4,5',6-Pentachlorobiphenyl (PCB 103)	140	NG/KG	2	4	50%	61
2,2',4,5-Tetrachlorobiphenyl (PCB 048)		NG/KG	0	4	0%	2.9
2,2',4,5'-Tetrachlorobiphenyl (PCB 049:(49+69))	7300	NG/KG	4	4	100%	6000

TABLE N-12a
DESCRIPTIVE STATISTICS: FISH TISSUE SAMPLES (UNDEPURATED)
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Mean Concentration ND=1/2DL
2,2',4,6,6'-Pentachlorobiphenyl (PCB 104)	5.6	NG/KG	2	4	50%	3.4
2,2',4,6-Tetrachlorobiphenyl (PCB 050:(50+53))	580	NG/KG	4	4	100%	460
2,2',4-Trichlorobiphenyl (PCB 017)	1000	NG/KG	4	4	100%	860
2,2',5,5'-Tetrachlorobiphenyl (PCB 052:(52+43+73))	11000	NG/KG	4	4	100%	8800
2,2',5-Trichlorobiphenyl	1300	NG/KG	4	4	100%	1100
2,2',6,6'-Tetrachlorobiphenyl (PCB 054)	9.7	NG/KG	1	4	25%	5
2,2',6-Trichlorobiphenyl (PCB 019)	200	NG/KG	4	4	100%	160
2,2'-Dichlorobiphenyl (PCB 004)	270	NG/KG	4	4	100%	220
2,3,3',4,4',5,5',6-Octachlorobiphenyl (PCB 205)	65	NG/KG	1	4	25%	34
2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	120	NG/KG	1	4	25%	37
2,3,3',4,4',5,6-Heptachlorobiphenyl (PCB 190)	800	NG/KG	4	4	100%	630
2,3,3',4,4',5',6-Heptachlorobiphenyl (PCB 191)		NG/KG	0	4	0%	3.3
2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156:(156+157))	1400	NG/KG	4	4	100%	1300
2,3,3',4,4',6-Hexachlorobiphenyl (PCB 158)	980	NG/KG	3	4	75%	650
2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	4900	NG/KG	4	4	100%	4000
2,3,3',4,5,5',6-Heptachlorobiphenyl (PCB 192)	340	NG/KG	1	4	25%	87
2,3,3',4,5,5'-Hexachlorobiphenyl (PCB 159)	130	NG/KG	3	4	75%	72
2,3,3',4',5,5'-Hexachlorobiphenyl (PCB 162)	170	NG/KG	3	4	75%	99
2,3,3',4,5',6-Hexachlorobiphenyl (PCB 161)		NG/KG	0	4	0%	8.3
2,3,3',4',5',6-Hexachlorobiphenyl (PCB 164)	2000	NG/KG	2	4	50%	720
2,3,3',4,5-Pentachlorobiphenyl (PCB 106)	2200	NG/KG	2	4	50%	1000
2,3,3',4',5-Pentachlorobiphenyl (PCB 107:(107+124))	170	NG/KG	3	4	75%	82
2',3,3',4,5-Pentachlorobiphenyl (PCB 122:(122+114))		NG/KG	0	4	0%	0.95
2,3,3',4,6-Pentachlorobiphenyl (PCB 109)	1200	NG/KG	4	4	100%	700
2,3,3',4',6-Pentachlorobiphenyl (PCB 110:(110+115))	18000	NG/KG	4	4	100%	12000
2,3,3',4-Tetrachlorobiphenyl (PCB 055)		NG/KG	0	4	0%	1.8
2,3,3',4'-Tetrachlorobiphenyl (PCB 056)	950	NG/KG	4	4	100%	740
2,3,3',5,5',6-Hexachlorobiphenyl (PCB 165)		NG/KG	0	4	0%	4.9
2,3,3',5,5'-Pentachlorobiphenyl (PCB 111)		NG/KG	0	4	0%	2.6
2,3,3',5,6-Pentachlorobiphenyl (PCB 112)		NG/KG	0	4	0%	4.1
2,3,3',5-Tetrachlorobiphenyl (PCB 057)	270	NG/KG	1	4	25%	68
2,3,3',5'-Tetrachlorobiphenyl (PCB 058)		NG/KG	0	4	0%	1.2
2,3,3',6-Tetrachlorobiphenyl (PCB 059:(59+62+75))	900	NG/KG	4	4	100%	670
2,3,3'-Trichlorobiphenyl (PCB 020:(20+28))	6500	NG/KG	4	4	100%	5700
2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	810	NG/KG	4	4	100%	740
2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	300	NG/KG	3	4	75%	170
2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	13000	NG/KG	4	4	100%	11000
2',3,4,4',5-Pentachlorobiphenyl (PCB 123)		NG/KG	0	4	0%	1
2,3,4,4'-Tetrachlorobiphenyl (PCB 060)	2600	NG/KG	4	4	100%	1800
2,3',4,4'-Tetrachlorobiphenyl (PCB 066)	17000	NG/KG	4	4	100%	12000
2,3',4,5,5'-Pentachlorobiphenyl (PCB 120)		NG/KG	0	4	0%	2.5
2,3',4,5',6-Pentachlorobiphenyl (PCB 121)		NG/KG	0	4	0%	2.7
2,3,4',5-Tetrachlorobiphenyl (PCB 063)	320	NG/KG	1	4	25%	81
2,3',4,5-Tetrachlorobiphenyl (PCB 067)		NG/KG	0	4	0%	2.1
2,3',4,5'-Tetrachlorobiphenyl (PCB 068)	79	NG/KG	2	4	50%	40

TABLE N-12a
DESCRIPTIVE STATISTICS: FISH TISSUE SAMPLES (UNDEPURATED)
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Mean Concentration ND=1/2DL
2,3',4',5-Tetrachlorobiphenyl (PCB 070:(70+61+74+76))	16000	NG/KG	4	4	100%	16000
2,3,4',6-Tetrachlorobiphenyl (PCB 064)	8900	NG/KG	4	4	100%	6500
2,3,4-Trichlorobiphenyl (PCB 021:(21+33))	120	NG/KG	1	4	25%	30
2,3,4'-Trichlorobiphenyl (PCB 022)	690	NG/KG	4	4	100%	660
2,3',4-Trichlorobiphenyl (PCB 025)		NG/KG	0	4	0%	2.1
2,3',5,5'-Tetrachlorobiphenyl (PCB 072)	170	NG/KG	2	4	50%	85
2,3,5-Trichlorobiphenyl (PCB 023)		NG/KG	0	4	0%	2.3
2,3',5-Trichlorobiphenyl (PCB 026:(26+29))	360	NG/KG	3	4	75%	240
2',3,5-Trichlorobiphenyl (PCB 034)		NG/KG	0	4	0%	2.1
2,3',6-Trichlorobiphenyl (PCB 027:(27+24))	160	NG/KG	1	4	25%	41
2,3-Dichlorobiphenyl (PCB 005)	120	NG/KG	1	4	25%	32
2,3'-Dichlorobiphenyl (PCB 006)	54	NG/KG	4	4	100%	44
2,4',5-Trichlorobiphenyl (PCB 031)	3200	NG/KG	3	4	75%	1700
2,4',6-Trichlorobiphenyl (PCB 032)	980	NG/KG	4	4	100%	920
2,4-Dichlorobiphenyl (PCB 007)	17	NG/KG	2	4	50%	9.3
2,4'-Dichlorobiphenyl (PCB 008)	370	NG/KG	4	4	100%	270
2,5-Dichlorobiphenyl (PCB 009)	4.8	NG/KG	2	4	50%	3.7
2,6-Dichlorobiphenyl (PCB 010)	4.1	NG/KG	2	4	50%	2.6
2-Chlorobiphenyl (PCB 001)	19	NG/KG	4	4	100%	18
3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)		NG/KG	0	4	0%	1.7
3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	150	NG/KG	3	4	75%	80
3,3',4,4'-Tetrachlorobiphenyl (PCB 077)	160	NG/KG	2	4	50%	77
3,3',4,5,5'-Pentachlorobiphenyl (PCB 127)		NG/KG	0	4	0%	1.1
3,3',4,5-Tetrachlorobiphenyl (PCB 078)		NG/KG	0	4	0%	1.7
3,3',4,5'-Tetrachlorobiphenyl (PCB 079)	86	NG/KG	2	4	50%	42
3,3',4-Trichlorobiphenyl (PCB 035)		NG/KG	0	4	0%	1.8
3,3',5,5'-Tetrachlorobiphenyl (PCB 080)		NG/KG	0	4	0%	1.4
3,3',5-Trichlorobiphenyl (PCB 036)		NG/KG	0	4	0%	1.6
3,3'-Dichlorobiphenyl (PCB 011)	240	NG/KG	3	4	75%	160
3,4,4',5-Tetrachlorobiphenyl (PCB 081)		NG/KG	0	4	0%	1.6
3,4,4'-Trichlorobiphenyl (PCB 037)	110	NG/KG	3	4	75%	68
3,4,5-Trichlorobiphenyl (PCB 038)		NG/KG	0	4	0%	1.7
3,4',5-Trichlorobiphenyl (PCB 039)		NG/KG	0	4	0%	1.5
3,4-Dichlorobiphenyl (PCB 012:(12+13))	200	NG/KG	1	4	25%	53
3,5-Dichlorobiphenyl (PCB 014)		NG/KG	0	4	0%	3.2
3-Chlorobiphenyl (PCB 002)	3.8	NG/KG	4	4	100%	3.4
4,4'-Dichlorobiphenyl (PCB 015)	59	NG/KG	4	4	100%	49
4-Chlorobiphenyl (PCB 003)	7.5	NG/KG	4	4	100%	6.6
Decachlorobiphenyl (PCB 209)	21000	NG/KG	4	4	100%	5800

Notes:
PG/G = pico gram per gram
MG/KG = milligram per kilogram
UG/G = microgram per gram
NG/kG = nano gram per kilogram

BROWN AND CALDWELL

TABLE N-12b
DESCRIPTIVE STATISTICS: CRAB TISSUE SAMPLES (UNDEPURATED)
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Mean Concentration ND=1/2DL
TOTAL EXTRACTABLE LIPIDS	1.1	PERCENT	8	8	100%	0.69
Percent Solids	32	PERCENT	8	8	100%	29
Arsenic	13	MG/KG	8	8	100%	9.8
As+3 As As		UG/G	0	8	0%	0.001
As+5 As As	0.099	UG/G	8	8	100%	0.072
Asb As As	2.7	UG/G	8	8	100%	1.9
Barium	63	MG/KG	8	8	100%	56
Chromium	25	MG/KG	8	8	100%	15
Copper	170	MG/KG	8	8	100%	150
DMA As As	0.09	UG/G	8	8	100%	0.065
Iron	4800	MG/KG	8	8	100%	2400
Lead	13	MG/KG	8	8	100%	10
Manganese	74	MG/KG	8	8	100%	47
Mercury	0.19	MG/KG	8	8	100%	0.16
Methyl Mercury	0.09	MG/KG	8	8	100%	0.061
MMA As As		UG/G	0	8	0%	0.0001
Vanadium	11	MG/KG	8	8	100%	5.7
Zinc	87	MG/KG	8	8	100%	73
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB 206)	990	NG/KG	8	8	100%	580
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB 194)	660	NG/KG	8	8	100%	410
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (PCB 207)	150	NG/KG	8	8	100%	92
2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195)	250	NG/KG	8	8	100%	160
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (PCB 196)	670	NG/KG	8	8	100%	400
2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	1300	NG/KG	8	8	100%	890
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (PCB 197:(197+200))	240	NG/KG	8	8	100%	140
2,2',3,3',4,4',6-Heptachlorobiphenyl (PCB 171:(171+173))	490	NG/KG	8	8	100%	320
2,2',3,3',4,4'-Hexachlorobiphenyl (PCB 128:(128+166))	940	NG/KG	8	8	100%	580
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (PCB 208)	450	NG/KG	8	8	100%	280
2,2',3,3',4,5,5',6-Octachlorobiphenyl (PCB 198:(198+199))	2100	NG/KG	8	8	100%	1300
2,2',3,3',4,5,5'-Heptachlorobiphenyl (PCB 172)	470	NG/KG	8	8	100%	300
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (PCB 201)	400	NG/KG	8	8	100%	230
2,2',3,3',4,5,6'-Heptachlorobiphenyl (PCB 174)	2900	NG/KG	6	8	75%	1600
2,2',3,3',4,5',6-Heptachlorobiphenyl (PCB 175)	1300	NG/KG	5	8	63%	410
2,2',3,3',4',5,6-Heptachlorobiphenyl (PCB 177)	1400	NG/KG	8	8	100%	970
2,2',3,3',4,5-Hexachlorobiphenyl (PCB 129:(129+138+160+163))	6000	NG/KG	8	8	100%	4200
2,2',3,3',4,5'-Hexachlorobiphenyl (PCB 130)	250	NG/KG	8	8	100%	130
2,2',3,3',4,6,6'-Heptachlorobiphenyl (PCB 176)	160	NG/KG	6	8	75%	77
2,2',3,3',4,6-Hexachlorobiphenyl (PCB 131:(131+142))	24	NG/KG	2	8	25%	5.4
2,2',3,3',4,6'-Hexachlorobiphenyl (PCB 132)	1800	NG/KG	8	8	100%	1200
2,2',3,3',4-Pentachlorobiphenyl (PCB 082)	440	NG/KG	5	8	63%	170
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (PCB 202)	590	NG/KG	8	8	100%	380
2,2',3,3',5,5',6-Heptachlorobiphenyl (PCB 178)	1400	NG/KG	8	8	100%	850
2,2',3,3',5,5'-Hexachlorobiphenyl (PCB 133)	140	NG/KG	6	8	75%	66
2,2',3,3',5,6,6'-Heptachlorobiphenyl (PCB 179)	570	NG/KG	8	8	100%	410
2,2',3,3',5,6'-Hexachlorobiphenyl (PCB 135:(135+151+154))	1100	NG/KG	8	8	100%	830

TABLE N-12b
DESCRIPTIVE STATISTICS: CRAB TISSUE SAMPLES (UNDEPURATED)
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Mean Concentration ND=1/2DL
2,2',3,3',5-Pentachlorobiphenyl (PCB 083:(83+99))	2800	NG/KG	8	8	100%	1500
2,2',3,3',6,6'-Hexachlorobiphenyl (PCB 136)	190	NG/KG	8	8	100%	120
2,2',3,3',6-Pentachlorobiphenyl (PCB 084)	420	NG/KG	7	8	88%	200
2,2',3,4,4',5,5',6-Octachlorobiphenyl (PCB 203)	1300	NG/KG	8	8	100%	870
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180:(180+193))	5500	NG/KG	8	8	100%	3600
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (PCB 204)	44	NG/KG	3	8	38%	11
2,2',3,4,4',5,6-Heptachlorobiphenyl (PCB 181)	7.6	NG/KG	1	8	13%	4.6
2,2',3,4,4',5,6'-Heptachlorobiphenyl (PCB 182)		NG/KG	0	8	0%	1.7
2,2',3,4,4',5',6-Heptachlorobiphenyl (PCB 183)	1100	NG/KG	8	8	100%	690
2,2',3,4,4',5-Hexachlorobiphenyl (PCB 137)	910	NG/KG	3	8	38%	190
2,2',3,4,4',6,6'-Heptachlorobiphenyl (PCB 184)		NG/KG	0	8	0%	0.29
2,2',3,4,4',6-Hexachlorobiphenyl (PCB 139:(139+140))	110	NG/KG	7	8	88%	59
2,2',3,4,4'-Pentachlorobiphenyl (PCB 085:(85+116+117))	1400	NG/KG	8	8	100%	920
2,2',3,4,5,5',6-Heptachlorobiphenyl (PCB 185)	2400	NG/KG	2	8	25%	510
2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)	11000	NG/KG	8	8	100%	7000
2,2',3,4,5,5'-Hexachlorobiphenyl (PCB 141)	1400	NG/KG	5	8	63%	510
2,2',3,4',5,5'-Hexachlorobiphenyl (PCB 146)	890	NG/KG	7	8	88%	380
2,2',3,4,5,6,6'-Heptachlorobiphenyl (PCB 186)		NG/KG	0	8	0%	0.32
2,2',3,4',5,6,6'-Heptachlorobiphenyl (PCB 188)		NG/KG	0	8	0%	0.28
2,2',3,4,5,6'-Hexachlorobiphenyl (PCB 143)		NG/KG	0	8	0%	0.88
2,2',3,4,5',6-Hexachlorobiphenyl (PCB 144)	1400	NG/KG	7	8	88%	380
2,2',3,4',5,6-Hexachlorobiphenyl (PCB 147:(147+134+149))	9400	NG/KG	7	8	88%	6300
2,2',3,4',5,6'-Hexachlorobiphenyl (PCB 148)	10	NG/KG	5	8	63%	3.5
2,2',3,4,5-Pentachlorobiphenyl (PCB 086:(86+97+108+119))	1600	NG/KG	8	8	100%	1000
2,2',3,4',5-Pentachlorobiphenyl (PCB 090:(90+101+113))	4300	NG/KG	8	8	100%	2800
2,2',3,4,6,6'-Hexachlorobiphenyl (PCB 145)		NG/KG	0	8	0%	0.57
2,2',3,4,6-Pentachlorobiphenyl (PCB 088:(88+91))	900	NG/KG	8	8	100%	550
2,2',3,4,6'-Pentachlorobiphenyl (PCB 089)	16	NG/KG	1	8	13%	6.1
2,2',3',4,6-Pentachlorobiphenyl (PCB 098:(98+102))	110	NG/KG	5	8	63%	48
2,2',3,4-Tetrachlorobiphenyl (PCB 041:(41+71+40))	1500	NG/KG	8	8	100%	780
2,2',3,4'-Tetrachlorobiphenyl (PCB 042)	1300	NG/KG	8	8	100%	890
2,2',3,5,5'-Pentachlorobiphenyl (PCB 092)	980	NG/KG	8	8	100%	580
2,2',3,5,6,6'-Hexachlorobiphenyl (PCB 152:(152+150))	5.5	NG/KG	4	8	50%	2.5
2,2',3,5,6'-Pentachlorobiphenyl (PCB 094)	25	NG/KG	2	8	25%	8
2,2',3,5',6-Pentachlorobiphenyl (PCB 095:(95+93+100))	1400	NG/KG	8	8	100%	790
2,2',3,5'-Tetrachlorobiphenyl (PCB 044:(44+47+65))	2600	NG/KG	8	8	100%	1800
2,2',3,6,6'-Pentachlorobiphenyl (PCB 096)	3.1	NG/KG	1	8	13%	0.81
2,2',3,6-Tetrachlorobiphenyl (PCB 045:(45+51))	100	NG/KG	8	8	100%	66
2,2',3,6'-Tetrachlorobiphenyl (PCB 046)	10	NG/KG	2	8	25%	4.2
2,2',3-Trichlorobiphenyl (PCB 016)	110	NG/KG	6	8	75%	60
2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153:(153+168))	6200	NG/KG	8	8	100%	3800
2,2',4,4',6,6'-Hexachlorobiphenyl (PCB 155)	27	NG/KG	8	8	100%	14
2,2',4,5',6-Pentachlorobiphenyl (PCB 103)	32	NG/KG	3	8	38%	10
2,2',4,5-Tetrachlorobiphenyl (PCB 048)	930	NG/KG	5	8	63%	350
2,2',4,5'-Tetrachlorobiphenyl (PCB 049:(49+69))	3000	NG/KG	8	8	100%	2500

TABLE N-12b
DESCRIPTIVE STATISTICS: CRAB TISSUE SAMPLES (UNDEPURATED)
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Mean Concentration ND=1/2DL
2,2',4,6,6'-Pentachlorobiphenyl (PCB 104)	100	NG/KG	1	8	13%	14
2,2',4,6-Tetrachlorobiphenyl (PCB 050:(50+53))	82	NG/KG	7	8	88%	46
2,2',4-Trichlorobiphenyl (PCB 017)	460	NG/KG	8	8	100%	350
2,2',5,5'-Tetrachlorobiphenyl (PCB 052:(52+43+73))	1800	NG/KG	8	8	100%	1300
2,2',5-Trichlorobiphenyl	310	NG/KG	8	8	100%	210
2,2',6,6'-Tetrachlorobiphenyl (PCB 054)		NG/KG	0	8	0%	1.4
2,2',6-Trichlorobiphenyl (PCB 019)	10	NG/KG	6	8	75%	6
2,2'-Dichlorobiphenyl (PCB 004)	41	NG/KG	6	8	75%	24
2,3,3',4,4',5,5',6-Octachlorobiphenyl (PCB 205)	28	NG/KG	3	8	38%	12
2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	60	NG/KG	6	8	75%	34
2,3,3',4,4',5,6-Heptachlorobiphenyl (PCB 190)	260	NG/KG	8	8	100%	150
2,3,3',4,4',5',6-Heptachlorobiphenyl (PCB 191)	80	NG/KG	1	8	13%	13
2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156:(156+157))	610	NG/KG	8	8	100%	380
2,3,3',4,4',6-Hexachlorobiphenyl (PCB 158)	430	NG/KG	8	8	100%	300
2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	1500	NG/KG	8	8	100%	910
2,3,3',4,5,5',6-Heptachlorobiphenyl (PCB 192)		NG/KG	0	8	0%	3.6
2,3,3',4,5,5'-Hexachlorobiphenyl (PCB 159)	66	NG/KG	7	8	88%	35
2,3,3',4',5,5'-Hexachlorobiphenyl (PCB 162)	60	NG/KG	7	8	88%	41
2,3,3',4,5',6-Hexachlorobiphenyl (PCB 161)	1200	NG/KG	2	8	25%	240
2,3,3',4',5',6-Hexachlorobiphenyl (PCB 164)	1300	NG/KG	6	8	75%	590
2,3,3',4,5-Pentachlorobiphenyl (PCB 106)	1300	NG/KG	6	8	75%	490
2,3,3',4',5-Pentachlorobiphenyl (PCB 107:(107+124))	130	NG/KG	6	8	75%	74
2',3,3',4,5-Pentachlorobiphenyl (PCB 122:(122+114))	90	NG/KG	4	8	50%	22
2,3,3',4,6-Pentachlorobiphenyl (PCB 109)	240	NG/KG	7	8	88%	140
2,3,3',4',6-Pentachlorobiphenyl (PCB 110:(110+115))	5700	NG/KG	8	8	100%	4100
2,3,3',4-Tetrachlorobiphenyl (PCB 055)	17	NG/KG	1	8	13%	2.9
2,3,3',4'-Tetrachlorobiphenyl (PCB 056)	1100	NG/KG	8	8	100%	810
2,3,3',5,5',6-Hexachlorobiphenyl (PCB 165)	970	NG/KG	4	8	50%	140
2,3,3',5,5'-Pentachlorobiphenyl (PCB 111)	9.2	NG/KG	1	8	13%	2.8
2,3,3',5,6-Pentachlorobiphenyl (PCB 112)	2100	NG/KG	2	8	25%	440
2,3,3',5-Tetrachlorobiphenyl (PCB 057)	15	NG/KG	2	8	25%	3.4
2,3,3',5'-Tetrachlorobiphenyl (PCB 058)	91	NG/KG	4	8	50%	24
2,3,3',6-Tetrachlorobiphenyl (PCB 059:(59+62+75))	290	NG/KG	6	8	75%	120
2,3,3'-Trichlorobiphenyl (PCB 020:(20+28))	2500	NG/KG	8	8	100%	1800
2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	370	NG/KG	8	8	100%	230
2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	41	NG/KG	3	8	38%	18
2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	4400	NG/KG	8	8	100%	2600
2',3,4,4',5-Pentachlorobiphenyl (PCB 123)	210	NG/KG	2	8	25%	37
2,3,4,4'-Tetrachlorobiphenyl (PCB 060)	450	NG/KG	8	8	100%	310
2,3',4,4'-Tetrachlorobiphenyl (PCB 066)	3300	NG/KG	8	8	100%	2100
2,3',4,5,5'-Pentachlorobiphenyl (PCB 120)	15	NG/KG	2	8	25%	5.9
2,3',4,5',6-Pentachlorobiphenyl (PCB 121)	9.7	NG/KG	1	8	13%	2.7
2,3,4',5-Tetrachlorobiphenyl (PCB 063)	150	NG/KG	5	8	63%	76
2,3',4,5-Tetrachlorobiphenyl (PCB 067)	110	NG/KG	3	8	38%	33
2,3',4,5'-Tetrachlorobiphenyl (PCB 068)	34	NG/KG	5	8	63%	19

TABLE N-12b
DESCRIPTIVE STATISTICS: CRAB TISSUE SAMPLES (UNDEPURATED)
Old Place Creek, Staten Island, New York

Analyte	Maximum Concentration	Units ID	No. of Detects	No. of Samples	Detection Frequency	Mean Concentration ND=1/2DL
2,3',4',5-Tetrachlorobiphenyl (PCB 070:(70+61+74+76))	8000	NG/KG	8	8	100%	4900
2,3,4',6-Tetrachlorobiphenyl (PCB 064)	1500	NG/KG	8	8	100%	960
2,3,4-Trichlorobiphenyl (PCB 021:(21+33))	170	NG/KG	4	8	50%	65
2,3,4'-Trichlorobiphenyl (PCB 022)	480	NG/KG	8	8	100%	370
2,3',4-Trichlorobiphenyl (PCB 025)	1000	NG/KG	6	8	75%	230
2,3',5,5'-Tetrachlorobiphenyl (PCB 072)	61	NG/KG	5	8	63%	33
2,3,5-Trichlorobiphenyl (PCB 023)		NG/KG	0	8	0%	2.7
2,3',5-Trichlorobiphenyl (PCB 026:(26+29))	480	NG/KG	7	8	88%	280
2',3,5-Trichlorobiphenyl (PCB 034)		NG/KG	0	8	0%	2.5
2,3',6-Trichlorobiphenyl (PCB 027:(27+24))	62	NG/KG	4	8	50%	14
2,3-Dichlorobiphenyl (PCB 005)		NG/KG	0	8	0%	0.92
2,3'-Dichlorobiphenyl (PCB 006)	13	NG/KG	6	8	75%	8.9
2,4',5-Trichlorobiphenyl (PCB 031)	2800	NG/KG	8	8	100%	2200
2,4',6-Trichlorobiphenyl (PCB 032)	300	NG/KG	8	8	100%	190
2,4-Dichlorobiphenyl (PCB 007)	10	NG/KG	6	8	75%	6
2,4'-Dichlorobiphenyl (PCB 008)	78	NG/KG	8	8	100%	58
2,5-Dichlorobiphenyl (PCB 009)	4.5	NG/KG	3	8	38%	2.1
2,6-Dichlorobiphenyl (PCB 010)	4.6	NG/KG	1	8	13%	1.5
2-Chlorobiphenyl (PCB 001)	8.1	NG/KG	8	8	100%	6.4
3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	10	NG/KG	3	8	38%	4.2
3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	58	NG/KG	7	8	88%	34
3,3',4,4'-Tetrachlorobiphenyl (PCB 077)	250	NG/KG	8	8	100%	160
3,3',4,5,5'-Pentachlorobiphenyl (PCB 127)	38	NG/KG	1	8	13%	6.4
3,3',4,5-Tetrachlorobiphenyl (PCB 078)	33	NG/KG	2	8	25%	5.9
3,3',4,5'-Tetrachlorobiphenyl (PCB 079)	30	NG/KG	3	8	38%	9.5
3,3',4-Trichlorobiphenyl (PCB 035)	19	NG/KG	2	8	25%	4.9
3,3',5,5'-Tetrachlorobiphenyl (PCB 080)	11	NG/KG	2	8	25%	2.8
3,3',5-Trichlorobiphenyl (PCB 036)	53	NG/KG	3	8	38%	13
3,3'-Dichlorobiphenyl (PCB 011)	850	NG/KG	8	8	100%	500
3,4,4',5-Tetrachlorobiphenyl (PCB 081)	52	NG/KG	4	8	50%	17
3,4,4'-Trichlorobiphenyl (PCB 037)	370	NG/KG	8	8	100%	250
3,4,5-Trichlorobiphenyl (PCB 038)	37	NG/KG	3	8	38%	12
3,4',5-Trichlorobiphenyl (PCB 039)	36	NG/KG	3	8	38%	11
3,4-Dichlorobiphenyl (PCB 012:(12+13))	30	NG/KG	4	8	50%	9.2
3,5-Dichlorobiphenyl (PCB 014)		NG/KG	0	8	0%	1
3-Chlorobiphenyl (PCB 002)	3.3	NG/KG	3	8	38%	1.6
4,4'-Dichlorobiphenyl (PCB 015)	200	NG/KG	8	8	100%	160
4-Chlorobiphenyl (PCB 003)	7.2	NG/KG	6	8	75%	4.1
Decachlorobiphenyl (PCB 209)	880	NG/KG	8	8	100%	570

Notes:
PG/G = pico gram per gram
MG/KG = milligram per kilogram
UG/G = microgram per gram
NG/kG = nano gram per kilogram

BROWN AND CALDWELL

TABLE N-13a
SUMMARY OF METHYL MERCURY AND MERCURY IN FISH (UNDEPURATED)
Old Place Creek, Staten Island, New York

Sample ID	Total Mercury (mg/kg)	Methyl Mercury (mg/kg)	% Methyl Mercury of Total Mercury
MC-W	0.098	0.1	100
MC-X	0.152	0.13	86
MC-Y	0.099	0.08	81
MC-Z	0.119	0.13	100*

Notes:
mg/kg = milligram per kilogram
* Due to laboratory varialbility, some percentages calculate over 100%. These numbers have been adjusted to 100%.

TABLE N-13b
SUMMARY OF METHYL MERCURY AND MERCURY IN CRAB (UNDEPURATED)
Old Place Creek, Staten Island, New York

Sample ID	Total Mercury (mg/kg)	Methyl Mercury (mg/kg)	% Methyl Mercury of Total Mercury
FC-W-1	0.162	0.04	25
FC-W-2	0.115	0.07	61
FC-X-1	0.156	0.06	38
FC-X-2	0.182	0.04	22
FC-Y-1	0.158	0.05	32
FC-Y-2	0.184	0.07	38
FC-Z-1	0.192	0.07	36
FC-Z-2	0.162	0.09	56

Notes:
mg/kg = milligram per kilogram

TABLE N-14a
BIOTA-SEDIMENT ACCUMULATION FACTORS IN FISH TISSUE (UNDEPURATED)
Old Place Creek, Staten Island, New York

Sample ID	Sediment Concentration (mg/kg)	Fish Tissue Concentration (mg/kg)	Biota-Sediment Accumulation Factor [(a)]	R^2 value [(b)]
Arsenic				
MC-W	30	2.3	0.076	
MC-X	38	2.6	0.069	
MC-Y	30	2.3	0.075	
MC-Z	27	2.4	0.088	0.64
Barium				
MC-W	210	6.3	0.03	
MC-X	270	6.9	0.025	
MC-Y	220	5.4	0.024	
MC-Z	170	7.2	0.042	0.02
Chromium				
MC-W	140	0.9	0.0063	
MC-X	160	1.4	0.0089	
MC-Y	140	2.4	0.018	
MC-Z	110	1.3	0.012	0.01
Copper				
MC-W	300	25	0.084	
MC-X	370	29	0.078	
MC-Y	320	24	0.075	
MC-Z	260	15	0.057	0.85
Iron				
MC-W	43000	240	0.0055	
MC-X	38000	350	0.0094	
MC-Y	39000	220	0.0055	
MC-Z	37000	230	0.0061	0.05
Lead				
MC-W	240	1.8	0.0075	
MC-X	260	2.7	0.011	
MC-Y	250	2.1	0.0083	
MC-Z	210	2.4	0.011	0.01
Manganese				
MC-W	420	22	0.053	
MC-X	340	26	0.074	
MC-Y	360	23	0.063	
MC-Z	340	20	0.059	0.04
Mercury				
MC-W	5.2	0.098	0.019	
MC-X	6.8	0.15	0.022	
MC-Y	3.6	0.099	0.028	
MC-Z	3.2	0.12	0.037	0.39

TABLE N-14a
BIOTA-SEDIMENT ACCUMULATION FACTORS IN FISH TISSUE (UNDEPURATED)
Old Place Creek, Staten Island, New York

Sample ID	Sediment Concentration (mg/kg)	Fish Tissue Concentration (mg/kg)	Biota-Sediment Accumulation Factor [(a)]	R^2 value [(b)]
Vanadium				
MC-W	59	1.4	0.024	
MC-X	51	1.7	0.032	
MC-Y	48	1.5	0.03	
MC-Z	44	1.6	0.037	0.32
Zinc				
MC-W	350	140	0.4	
MC-X	400	160	0.4	
MC-Y	340	150	0.45	
MC-Z	290	140	0.49	0.66

Notes:
mg/kg = milligram per kilogram
Total PCBs is total PCB congeners
(a) BSAFs for metals in kg sediment per kg tissue calculated as: Tissue Conc./ Sed. Conc.
(b) R2 values show how closely the Sediment Concentration and theFish Tissue Concentration are related. Note that R2 values only give a guide to the "goodness-of-fit" and do *not* indicate whether an association between the variables is statistically significant.

TABLE N-14b
BIOTA-SEDIMENT ACCUMULATION FACTORS IN CRAB TISSUE (UNDEPURATED)
Old Place Creek, Staten Island, New York

Sample ID	Sediment Concentration (mg/kg)	Crab Tissue Concentration (mg/kg)	Biota-Sediment Accumulation Factor [(a)]	R^2 value [(b)]
Arsenic				
FC-W-1	28	11	2.6	
FC-W-2	24	7.1	3.4	
FC-X-1	22	13	1.8	
FC-X-2	46	9.2	5	
FC-Y-1	32	9.5	3.4	
FC-Y-2	33	9.6	3.5	
FC-Z-1	30	11	2.8	
FC-Z-2	27	8.6	3.1	0.04
Barium				
FC-W-1	190	62	0.33	
FC-W-2	99	52	0.53	
FC-X-1	120	62	0.51	
FC-X-2	170	53	0.32	
FC-Y-1	200	63	0.31	
FC-Y-2	210	49	0.23	
FC-Z-1	180	59	0.32	
FC-Z-2	140	50	0.37	0.02
Chromium				
FC-W-1	110	6.2	0.055	
FC-W-2	66	8.7	0.13	
FC-X-1	83	18	0.21	
FC-X-2	110	12	0.1	
FC-Y-1	130	17	0.13	
FC-Y-2	130	25	0.2	
FC-Z-1	110	16	0.15	
FC-Z-2	83	16	0.19	0.17
Copper				
FC-W-1	260	120	0.48	
FC-W-2	92	120	1.3	
FC-X-1	200	160	0.81	
FC-X-2	290	140	0.48	
FC-Y-1	320	160	0.49	
FC-Y-2	290	140	0.49	
FC-Z-1	270	170	0.64	
FC-Z-2	200	160	0.78	0.12

TABLE N-14b
BIOTA-SEDIMENT ACCUMULATION FACTORS IN CRAB TISSUE (UNDEPURATED)
Old Place Creek, Staten Island, New York

Sample ID	Sediment Concentration (mg/kg)	Crab Tissue Concentration (mg/kg)	Biota-Sediment Accumulation Factor [(a)]	R^2 value [(b)]
Iron				
FC-W-1	46000	2300	0.051	
FC-W-2	42000	1700	0.041	
FC-X-1	33000	4800	0.15	
FC-X-2	41000	2500	0.061	
FC-Y-1	42000	2000	0.047	
FC-Y-2	40000	2000	0.05	
FC-Z-1	39000	2200	0.055	
FC-Z-2	34000	1600	0.048	0.22
Lead				
FC-W-1	200	8.7	0.044	
FC-W-2	120	5.8	0.05	
FC-X-1	140	11	0.079	
FC-X-2	220	12	0.053	
FC-Y-1	230	9.9	0.043	
FC-Y-2	240	12	0.048	
FC-Z-1	210	13	0.061	
FC-Z-2	160	11	0.069	0.34
Manganese				
FC-W-1	490	52	0.11	
FC-W-2	390	54	0.14	
FC-X-1	300	56	0.18	
FC-X-2	370	74	0.2	
FC-Y-1	390	39	0.099	
FC-Y-2	380	45	0.12	
FC-Z-1	350	30	0.084	
FC-Z-2	340	28	0.083	0.02
Mercury				
FC-W-1	3.1	0.16	0.052	
FC-W-2	1.1	0.12	0.1	
FC-X-1	2.2	0.16	0.071	
FC-X-2	3.6	0.18	0.051	
FC-Y-1	3	0.16	0.053	
FC-Y-2	2.7	0.18	0.068	
FC-Z-1	2.9	0.19	0.066	
FC-Z-2	2.2	0.16	0.074	0.64

TABLE N-14b
BIOTA-SEDIMENT ACCUMULATION FACTORS IN CRAB TISSUE (UNDEPURATED)
Old Place Creek, Staten Island, New York

Sample ID	Sediment Concentration (mg/kg)	Crab Tissue Concentration (mg/kg)	Biota-Sediment Accumulation Factor [(a)]	R^2 value [(b)]
Vanadium				
FC-W-1	56	6	0.11	
FC-W-2	56	4	0.071	
FC-X-1	39	11	0.27	
FC-X-2	50	5.6	0.11	
FC-Y-1	51	4.8	0.093	
FC-Y-2	50	4.6	0.093	
FC-Z-1	46	5.8	0.13	
FC-Z-2	41	3.9	0.097	0.27
Zinc				
FC-W-1	280	63	0.22	
FC-W-2	230	60	0.27	
FC-X-1	220	87	0.39	
FC-X-2	330	67	0.21	
FC-Y-1	350	79	0.23	
FC-Y-2	300	72	0.24	
FC-Z-1	300	81	0.27	
FC-Z-2	220	76	0.35	0

Notes:
mg/kg = milligram per kilogram
Total PCBs is total pcb congeners
(a) BSAFs for metals in kg sediment per kg tissue calculated as: Tissue Conc./ Sed. Conc.
(b) R2 values show how closely the Sediment Concentration and the Crab Tissue Concentration are related. Note that R2 values only give a guide to the "goodness-of-fit" and do *not* indicate whether an association between the variables is statistically significant.

FIGURES

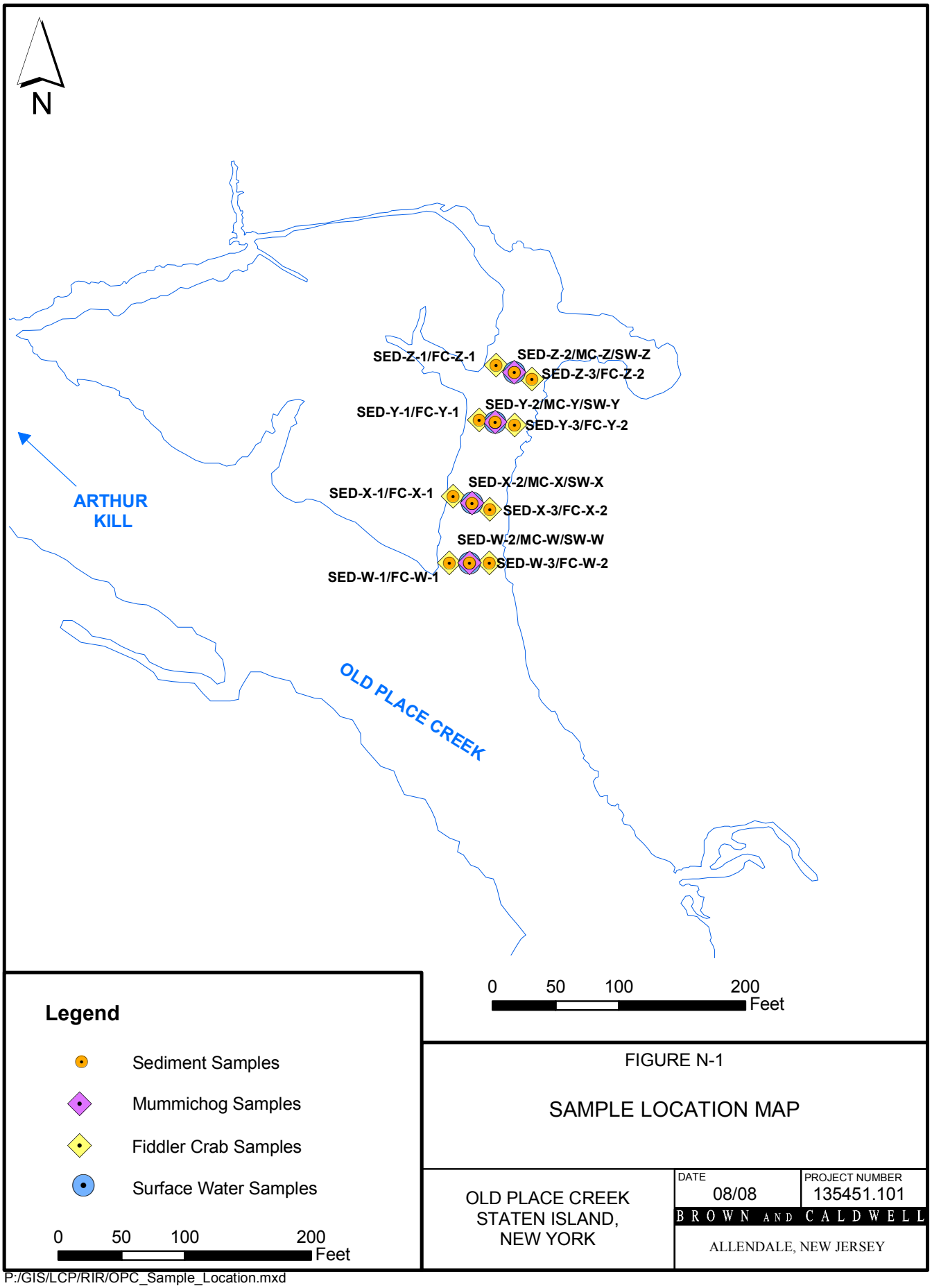


FIGURE N-1

SAMPLE LOCATION MAP

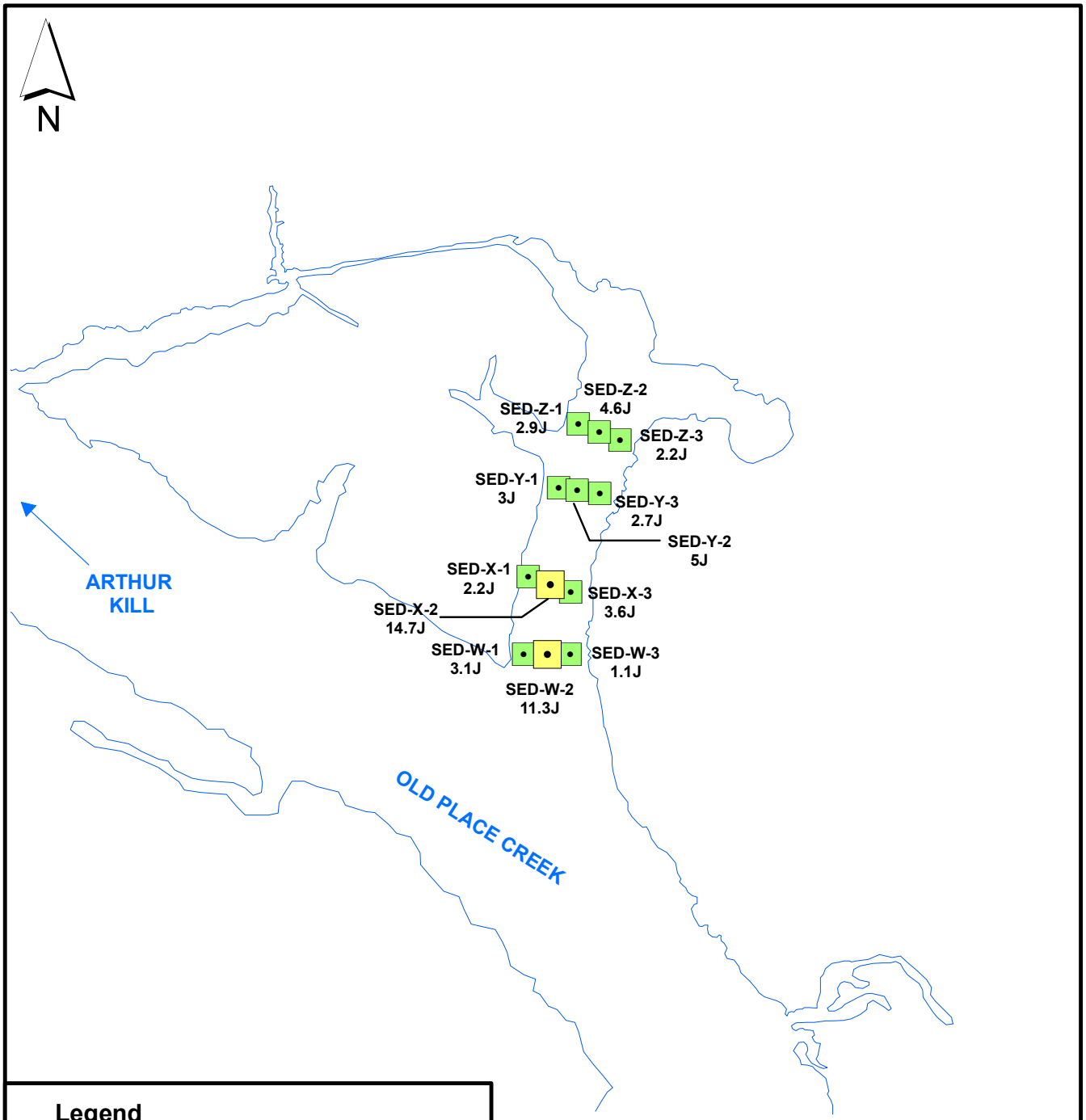
OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
08/08	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_Sample_Location.mxd



Legend

Total Mercury in Sediment (mg/kg)

Phase II
(2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-2a

TOTAL MERCURY IN SEDIMENTS
0 - 0.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_Hg_SED_0-0pt5ft.mxd

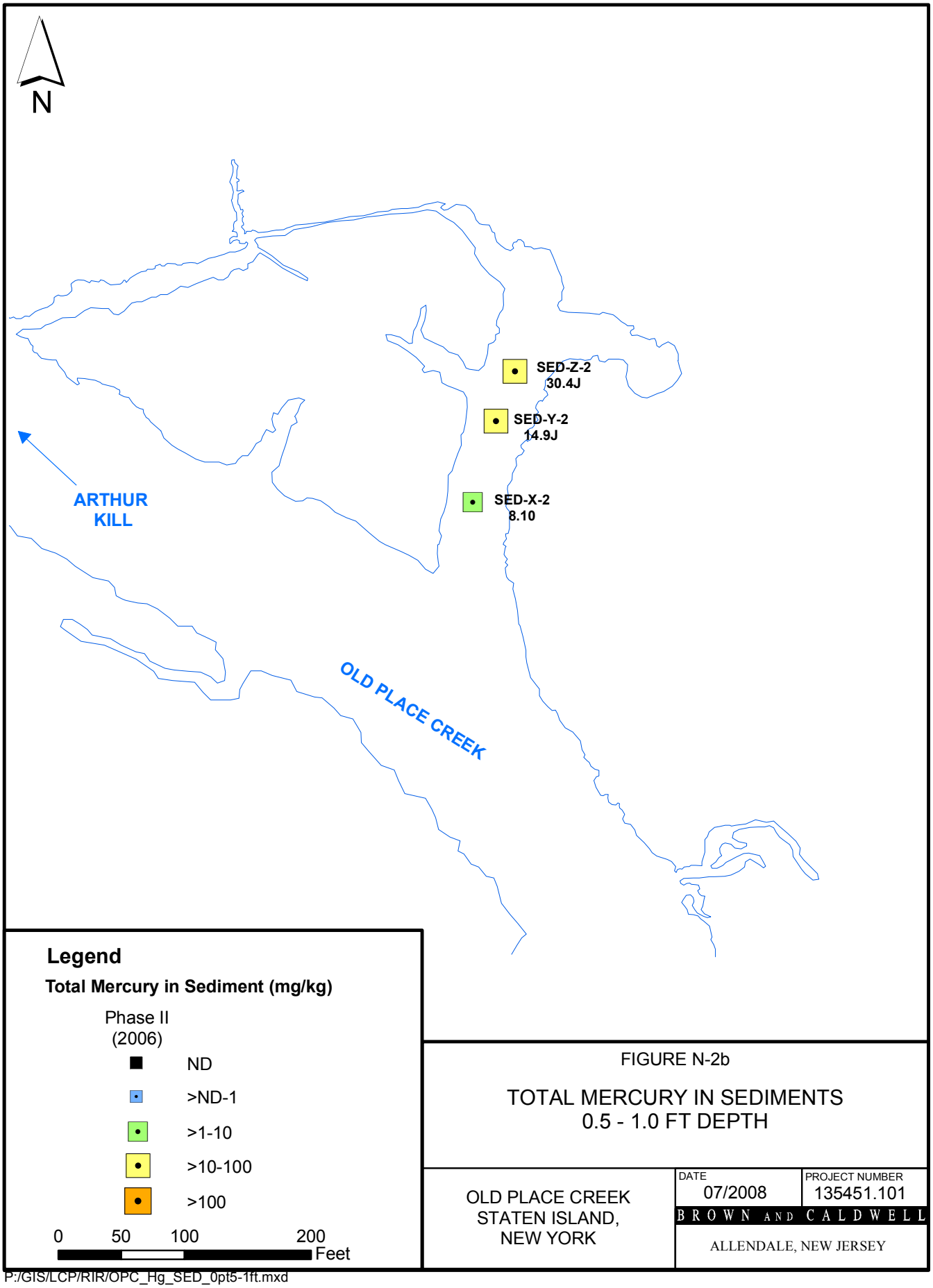


FIGURE N-2b

TOTAL MERCURY IN SEDIMENTS
0.5 - 1.0 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_Hg_SED_0pt5-1ft.mxd

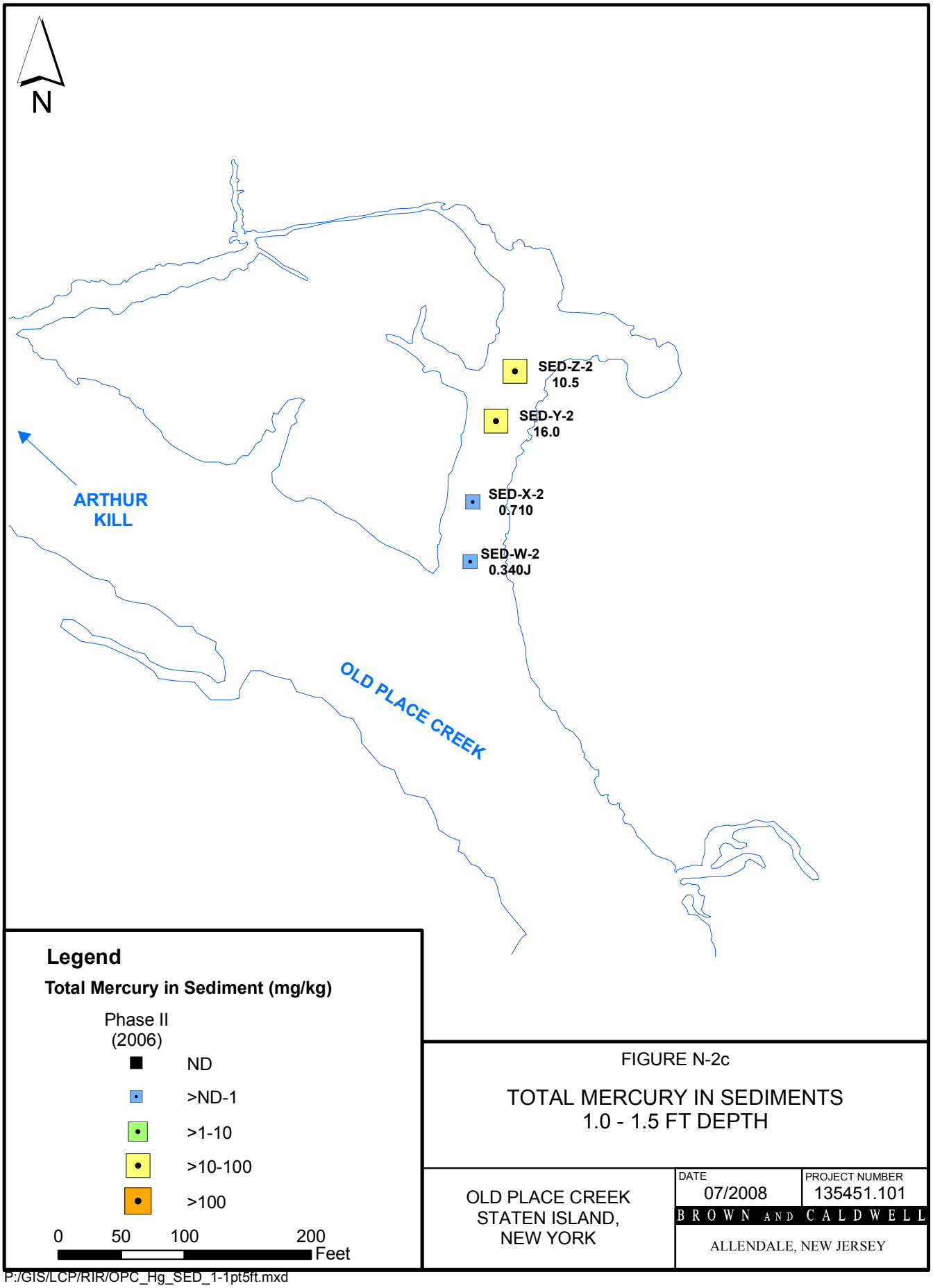


FIGURE N-2c

TOTAL MERCURY IN SEDIMENTS
1.0 - 1.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_Hg_SED_1-1pt5ft.mxd

R2-0005826

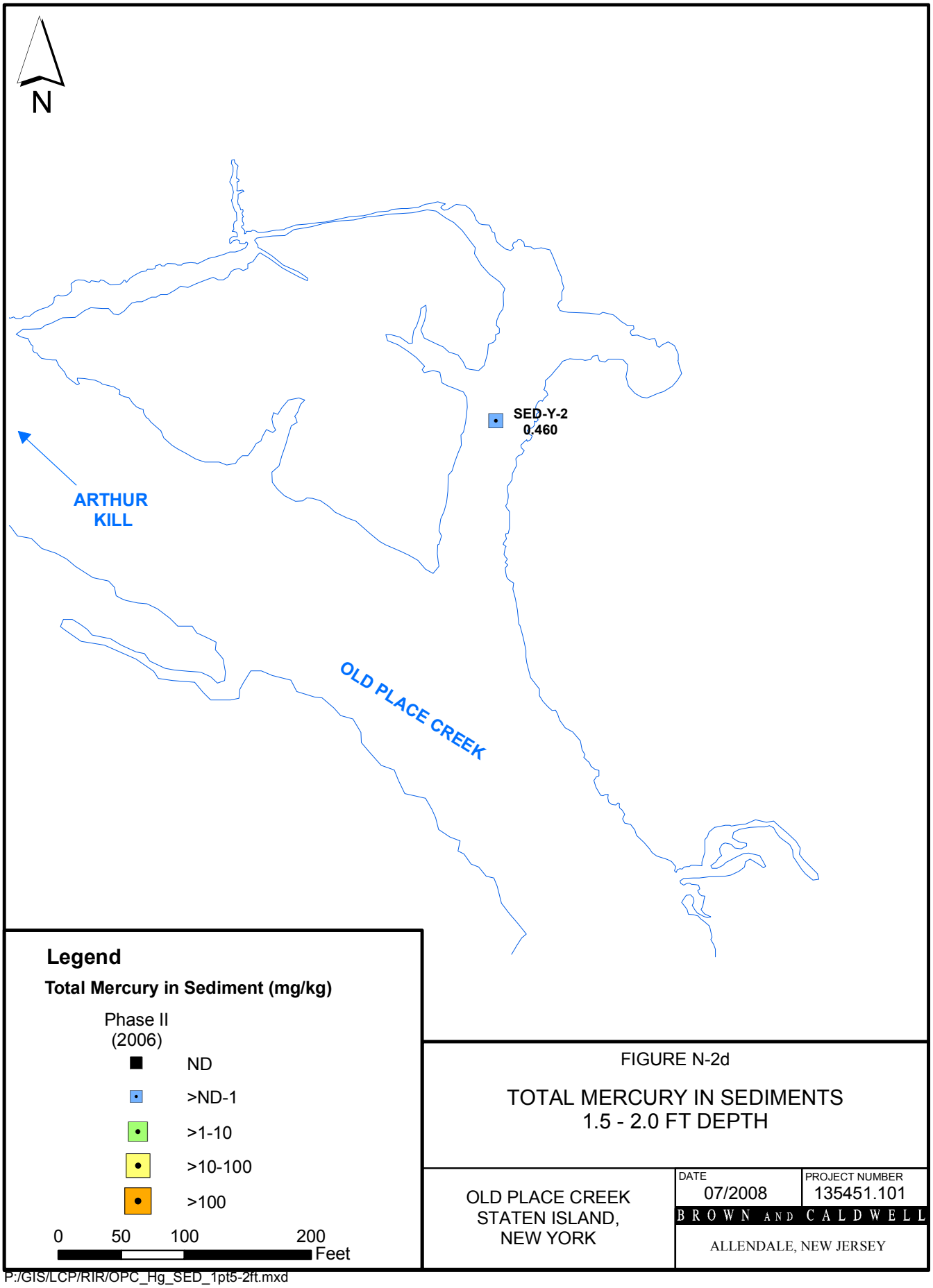


FIGURE N-2d

TOTAL MERCURY IN SEDIMENTS
1.5 - 2.0 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_Hg_SED_1pt5-2ft.mxd

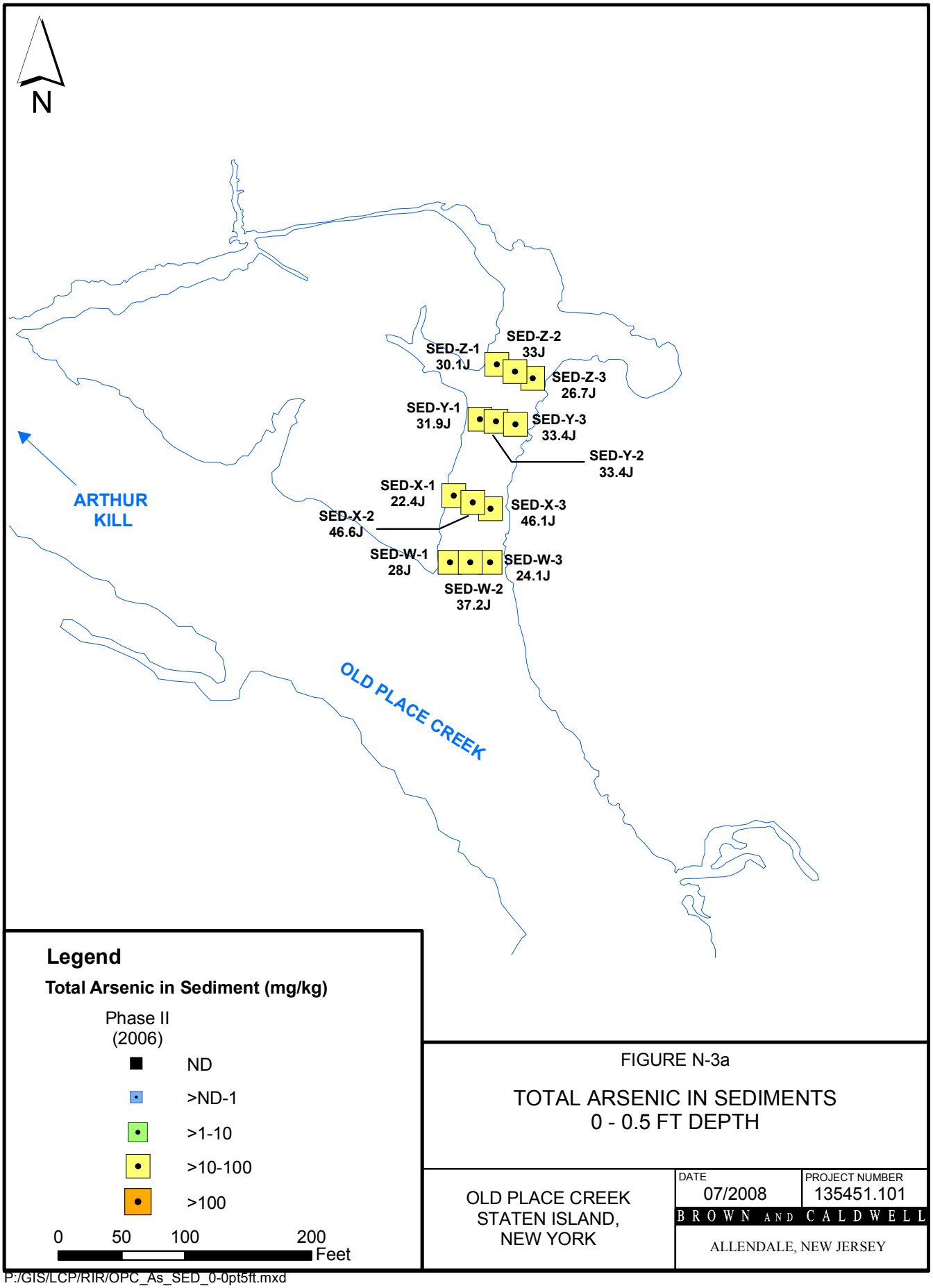


FIGURE N-3a

TOTAL ARSENIC IN SEDIMENTS
0 - 0.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_As_SED_0-0pt5ft.mxd

R2-0005828

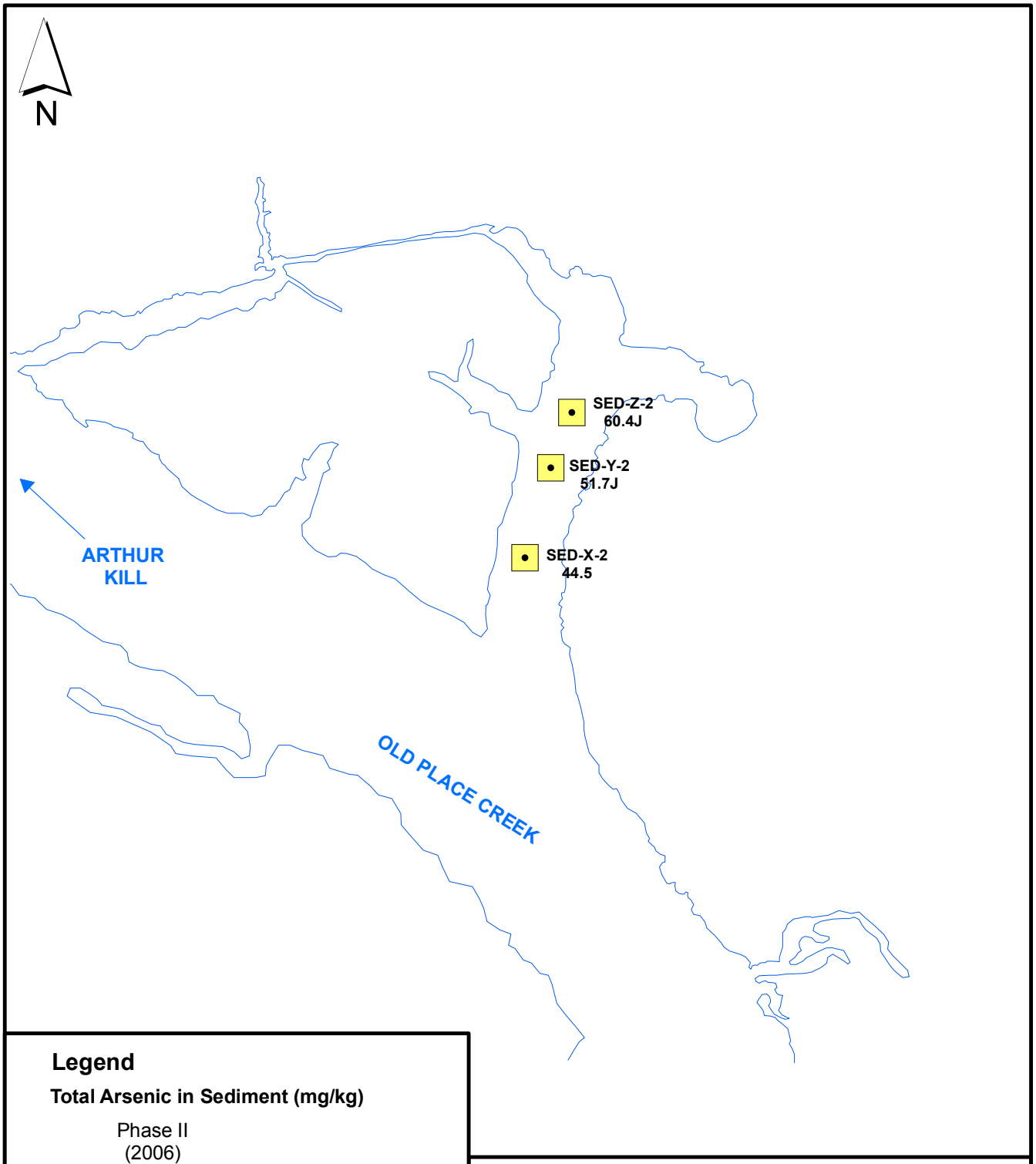


FIGURE N-3b

TOTAL ARSENIC IN SEDIMENTS
0.5 - 1.0 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_As_SED_0pt5-1ft.mxd

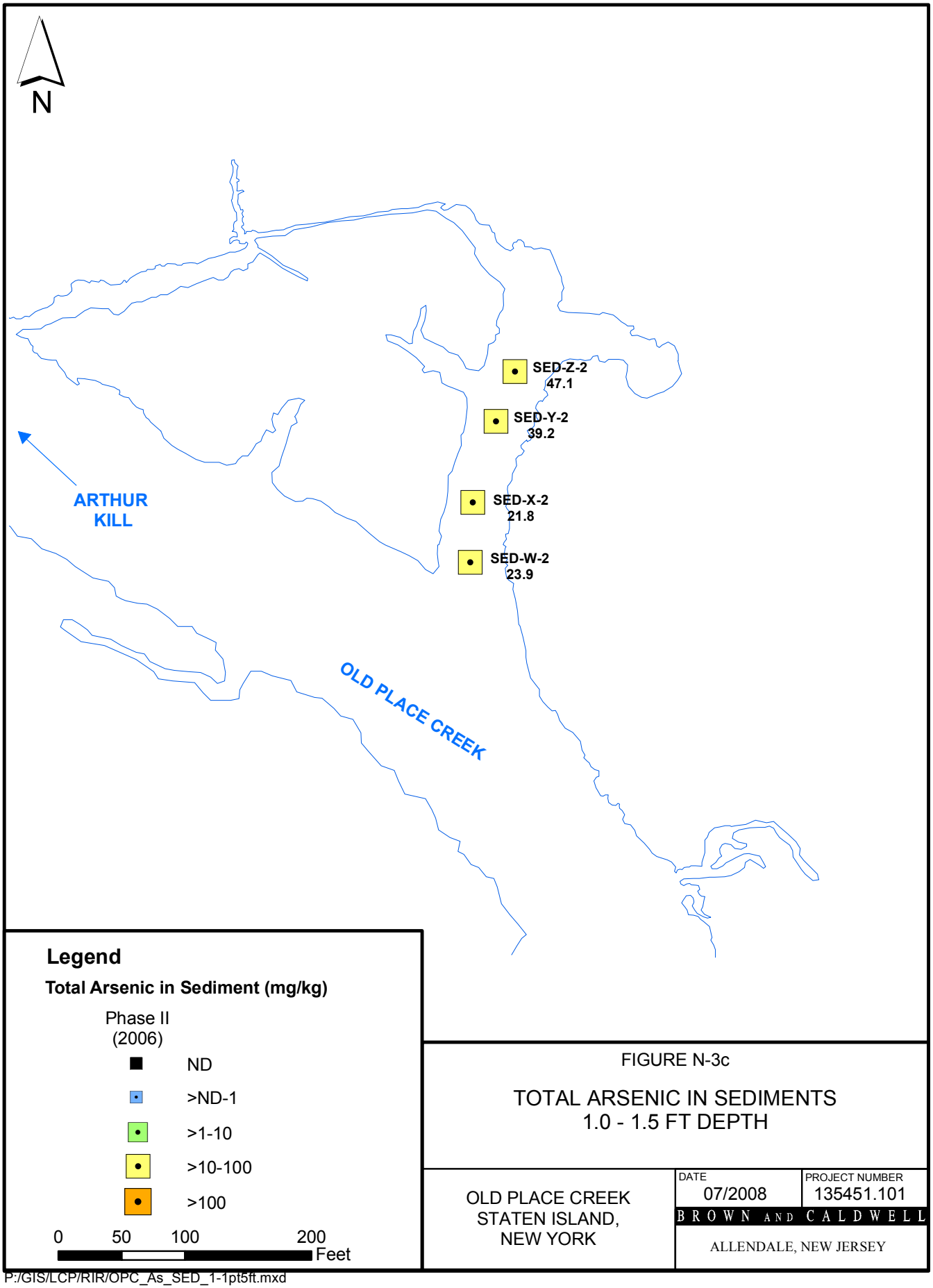


FIGURE N-3c

TOTAL ARSENIC IN SEDIMENTS
1.0 - 1.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_As_SED_1-1pt5ft.mxd

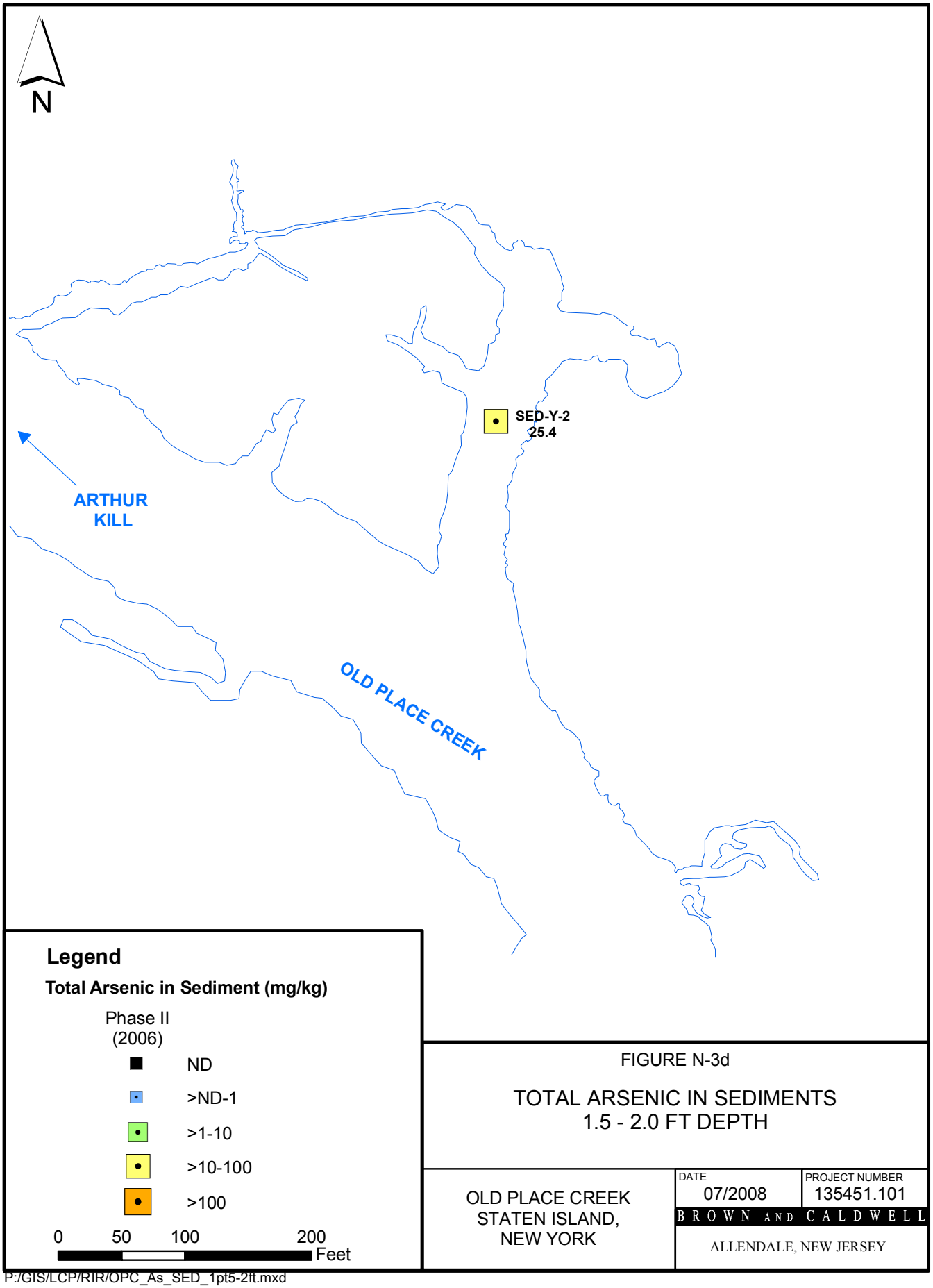


FIGURE N-3d

TOTAL ARSENIC IN SEDIMENTS
1.5 - 2.0 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

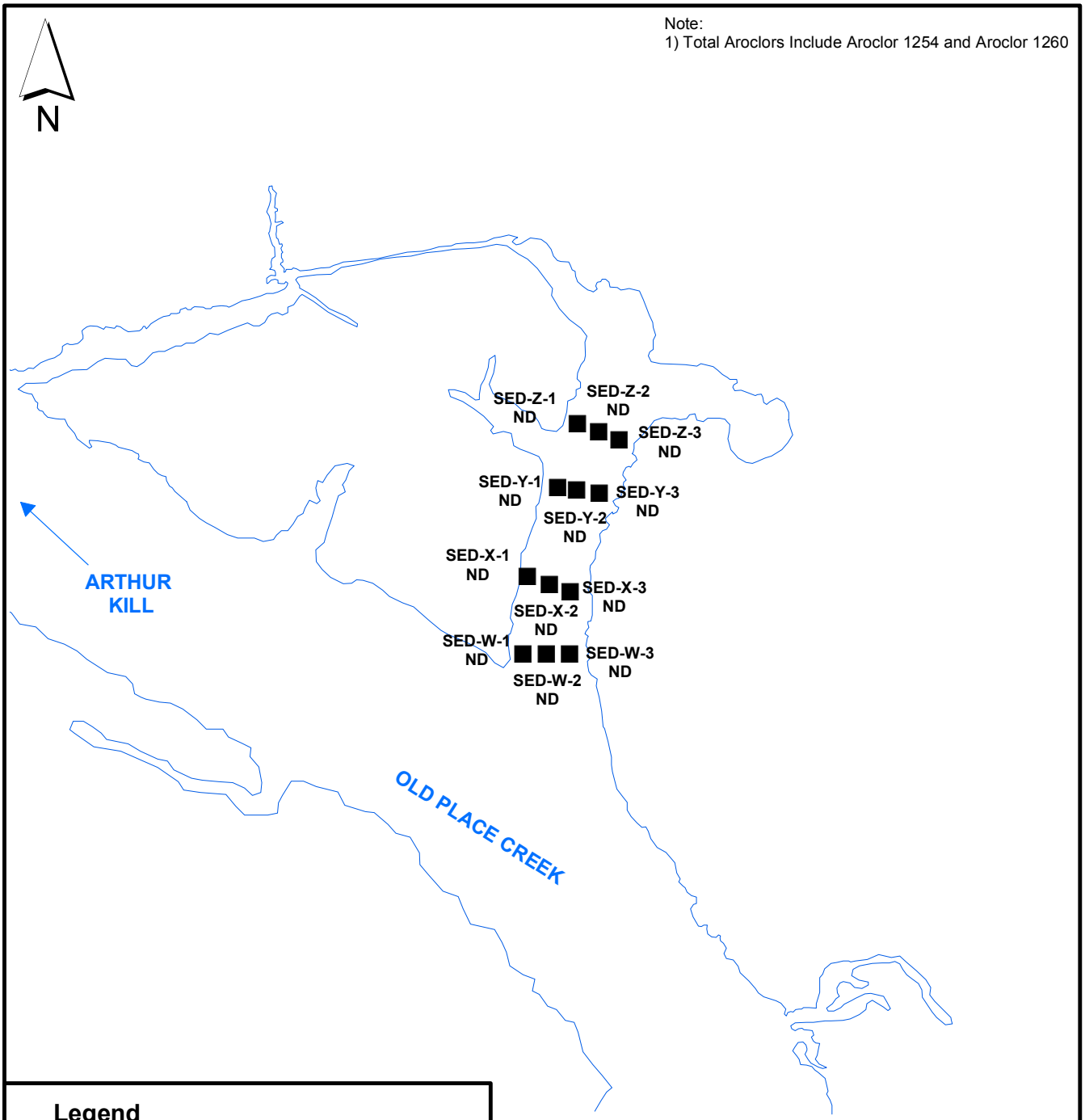
DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_As_SED_1pt5-2ft.mxd

Note:
1) Total Aroclors Include Aroclor 1254 and Aroclor 1260



Legend

Total PCBs (Aroclors) in Sediment (mg/kg)

Phase II (2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-4a

TOTAL PCBs (AROCLORS) IN SEDIMENTS
0 - 0.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

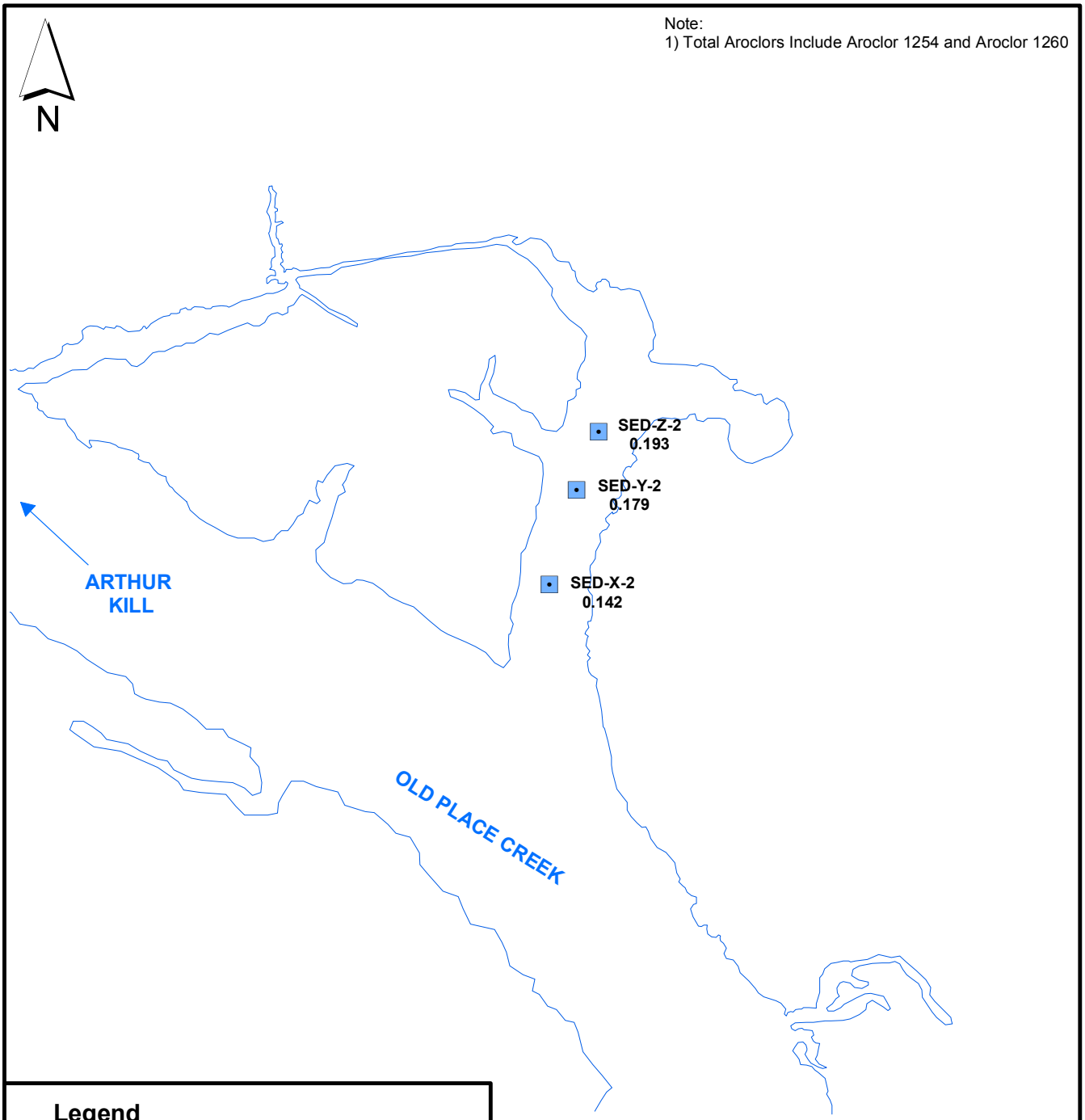
DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_Aro_SED_0-0pt5ft.mxd

Note:
1) Total Aroclors Include Aroclor 1254 and Aroclor 1260



Legend

Total PCBs (Aroclors) in Sediment (mg/kg)

Phase II
(2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-4b

TOTAL PCBs (AROCLORS) IN SEDIMENTS
0.5 - 1.0 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

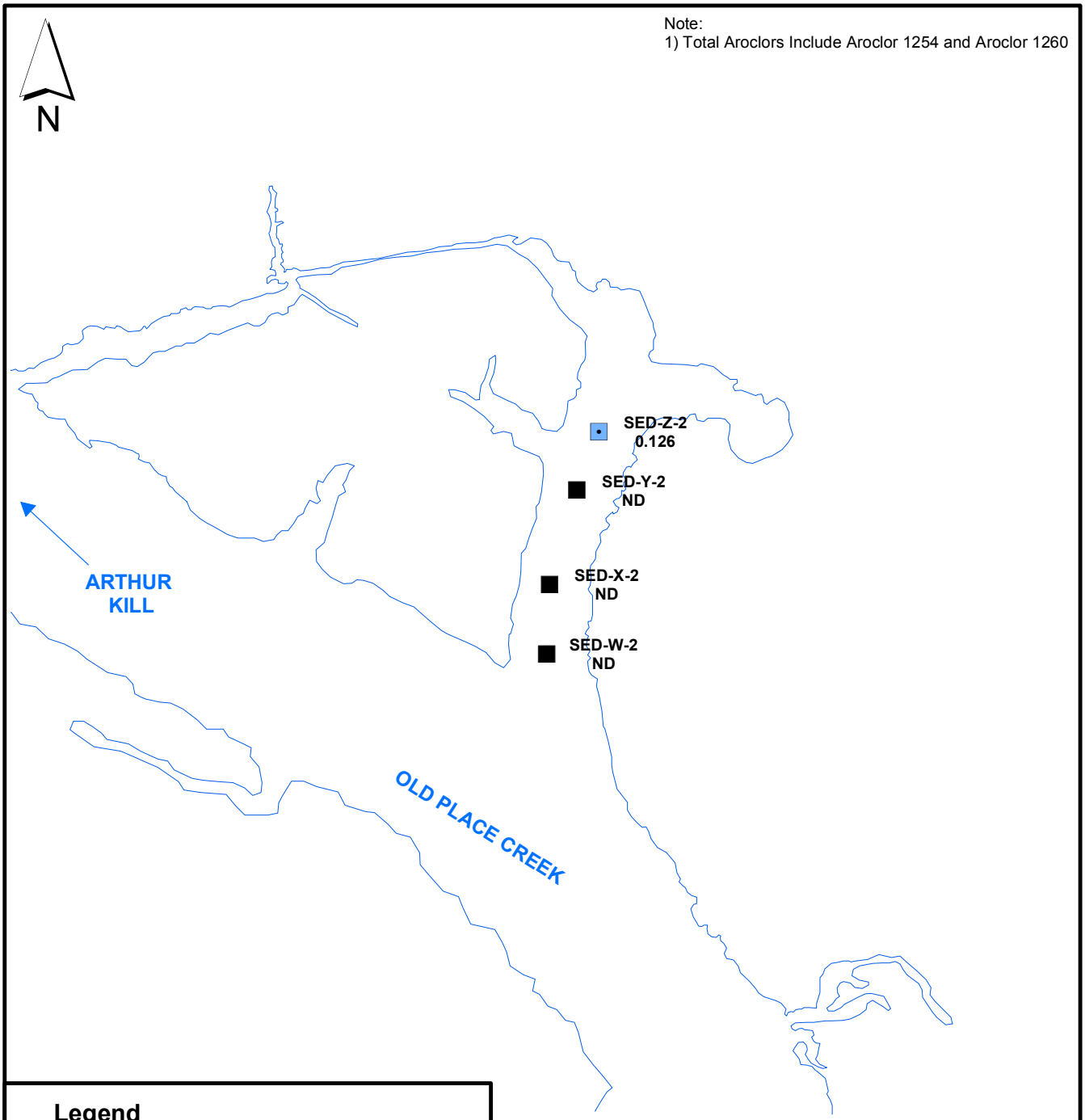
DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_Aro_SED_0pt5-1ft.mxd

Note:
1) Total Aroclors Include Aroclor 1254 and Aroclor 1260



Legend

Total PCBs (Aroclors) in Sediment (mg/kg)

Phase II
(2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-4c

TOTAL PCBs (AROCLORS) IN SEDIMENTS
1.0 - 1.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

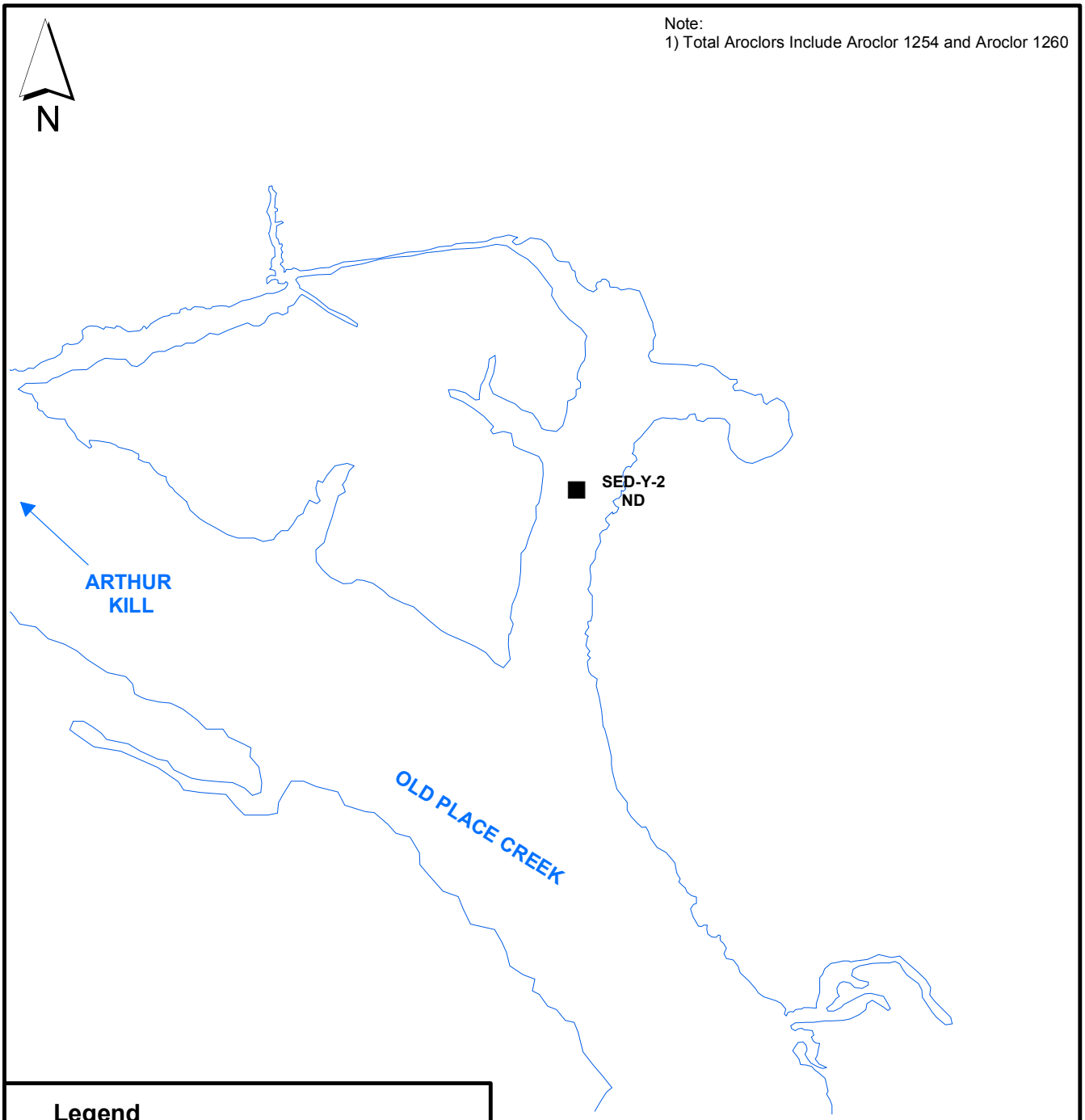
DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_Aro_SED_1-1pt5ft.mxd

Note:
1) Total Aroclors Include Aroclor 1254 and Aroclor 1260



Legend

Total PCBs (Aroclors) in Sediment (mg/kg)

Phase II
(2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-4d

TOTAL PCBs (AROCLORS) IN SEDIMENTS
1.5 - 2.0 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

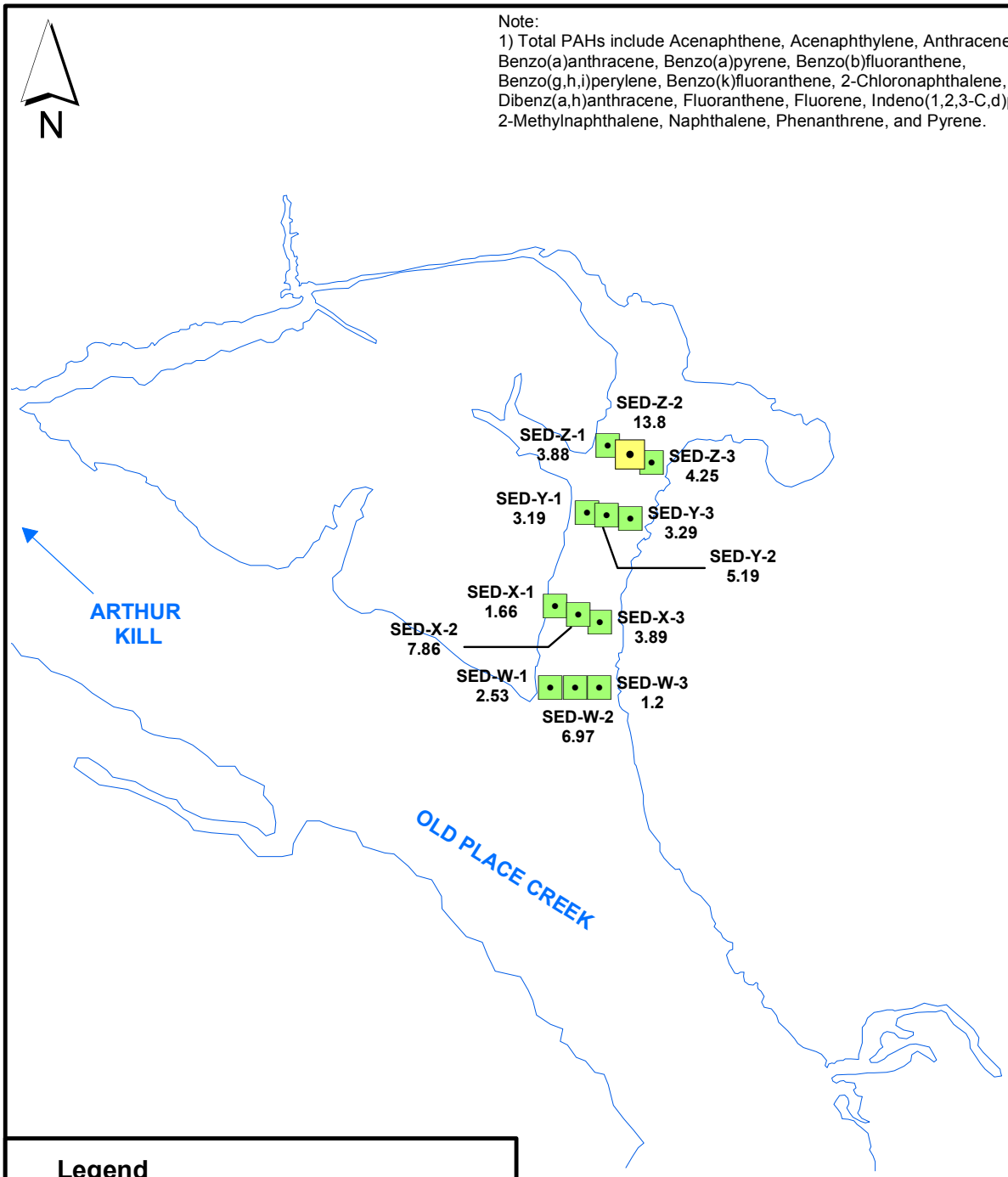
BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_Aro_SED_1pt5-2ft.mxd

R2-0005835

Note:
1) Total PAHs include Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, 2-Chloronaphthalene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-C,d)pyrene, 2-Methylnaphthalene, Naphthalene, Phenanthrene, and Pyrene.



Legend

Total PAHs in Sediment (mg/kg)

Phase II (2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-5a

TOTAL PAHs IN SEDIMENTS
0 - 0.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

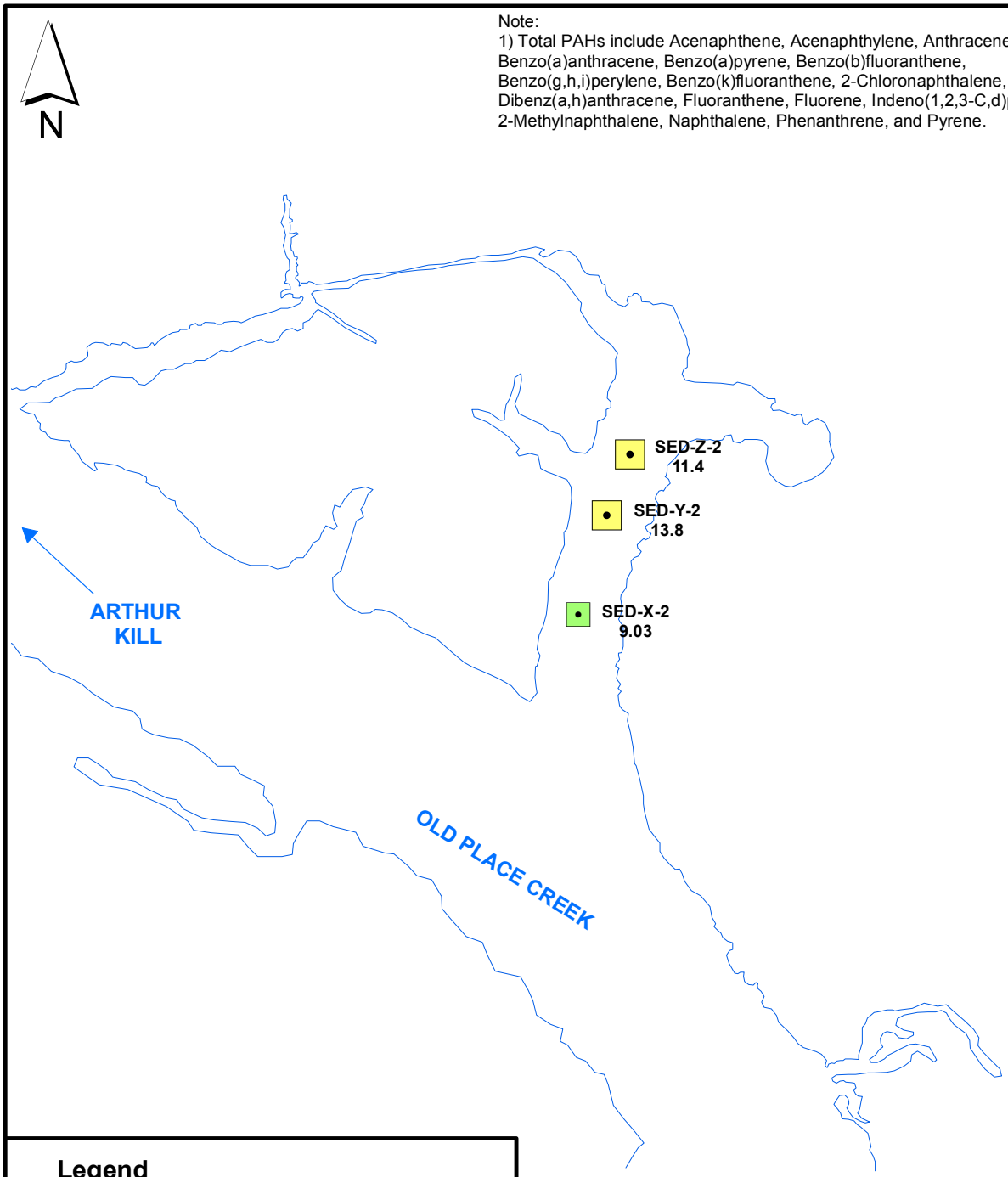
BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_PAH_Total_SED_0-0pt5ft.mxd

R2-0005836

Note:
1) Total PAHs include Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, 2-Chloronaphthalene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-C,d)pyrene, 2-Methylnaphthalene, Naphthalene, Phenanthrene, and Pyrene.



Legend

Total PAHs in Sediment (mg/kg)

Phase II (2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-5b

TOTAL PAHs IN SEDIMENTS
0.5 - 1.0 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

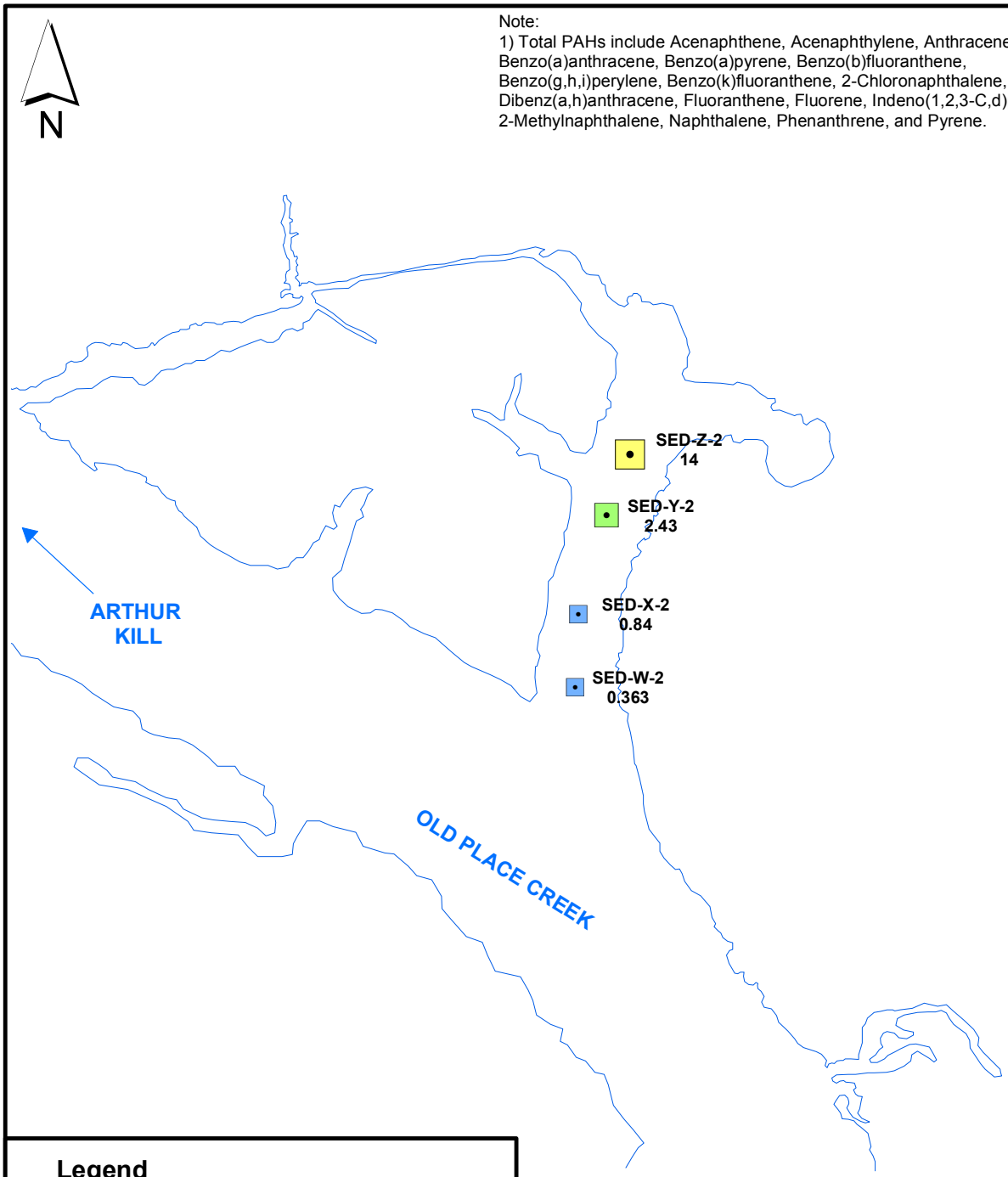
DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_PAH_Total_SED_0pt5-1ft.mxd

Note:
1) Total PAHs include Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, 2-Chloronaphthalene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-C,d)pyrene, 2-Methylnaphthalene, Naphthalene, Phenanthrene, and Pyrene.



Legend

Total PAHs in Sediment (mg/kg)

Phase II (2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-5c

TOTAL PAHs IN SEDIMENTS
1.0 - 1.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

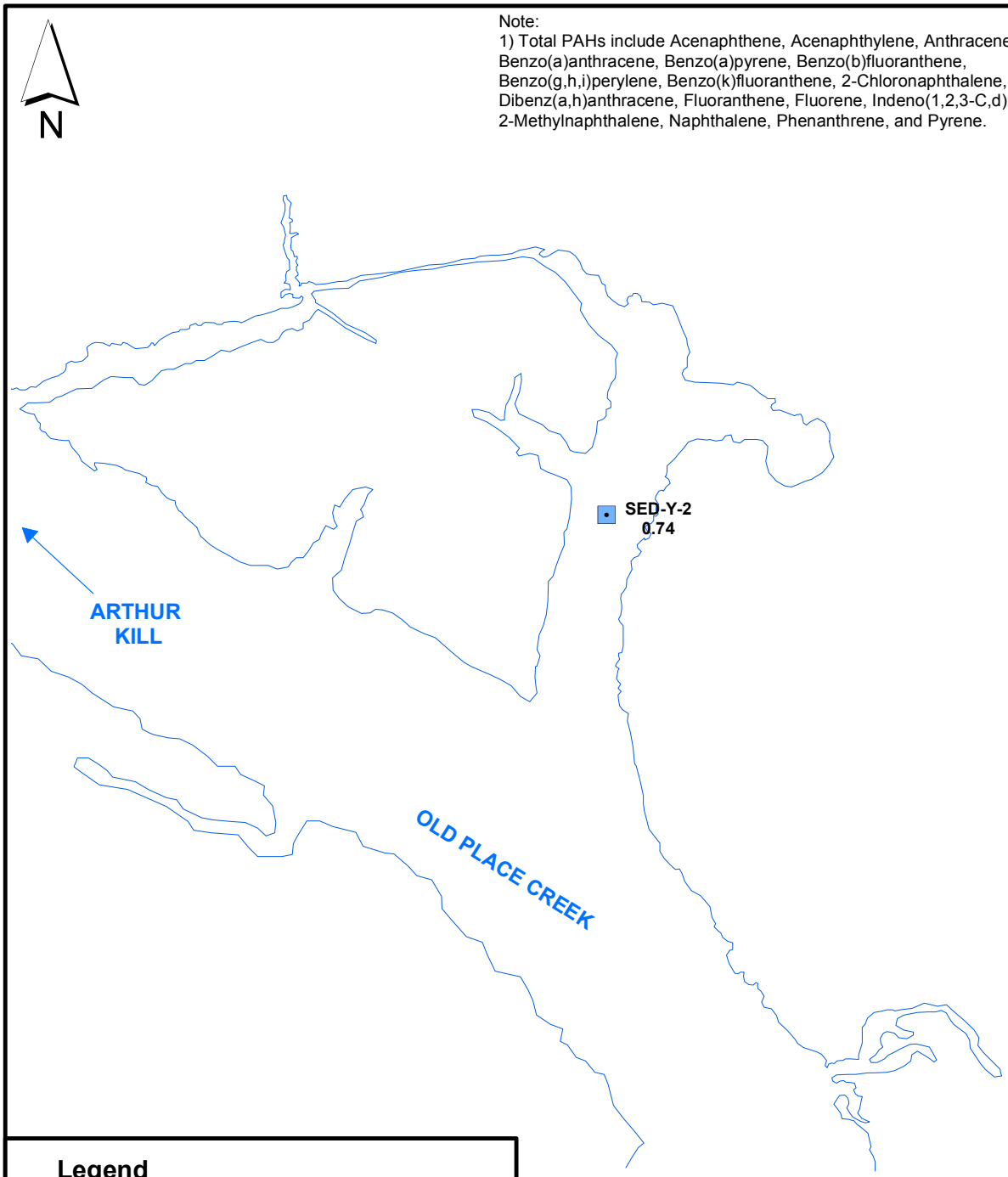
BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_PAH_Total_SED_1-1pt5ft.mxd

R2-0005838

Note:
1) Total PAHs include Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, 2-Chloronaphthalene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-C,d)pyrene, 2-Methylnaphthalene, Naphthalene, Phenanthrene, and Pyrene.



Legend

Total PAHs in Sediment (mg/kg)

Phase II (2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-5d

TOTAL PAHs IN SEDIMENTS
1.5 - 2.0 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_PAH_Total_SED_1pt5-2ft.mxd

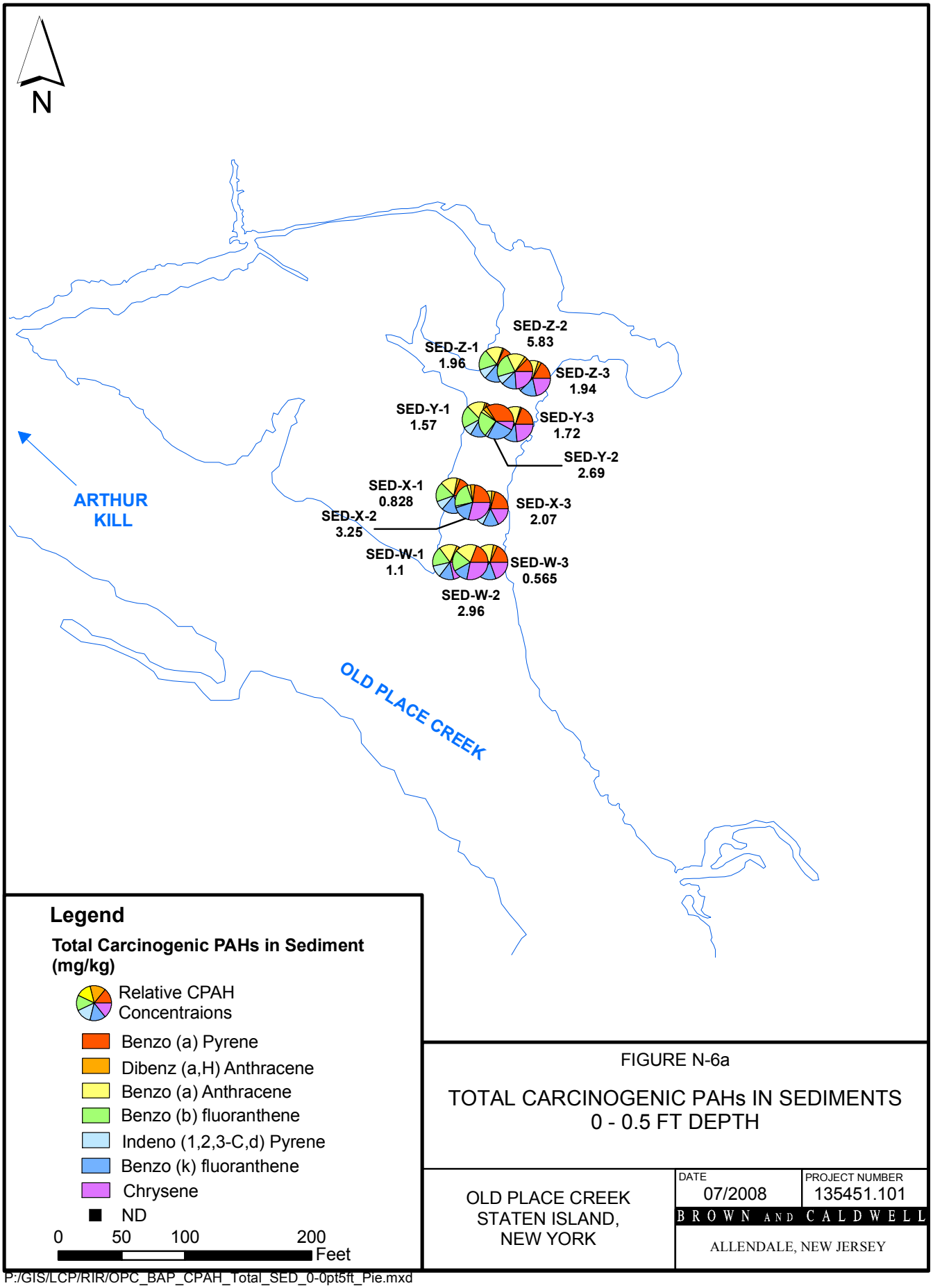


FIGURE N-6a

TOTAL CARCINOGENIC PAHs IN SEDIMENTS
0 - 0.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_BAP_CPAH_Total_SED_0-0pt5ft_Pie.mxd

R2-0005840

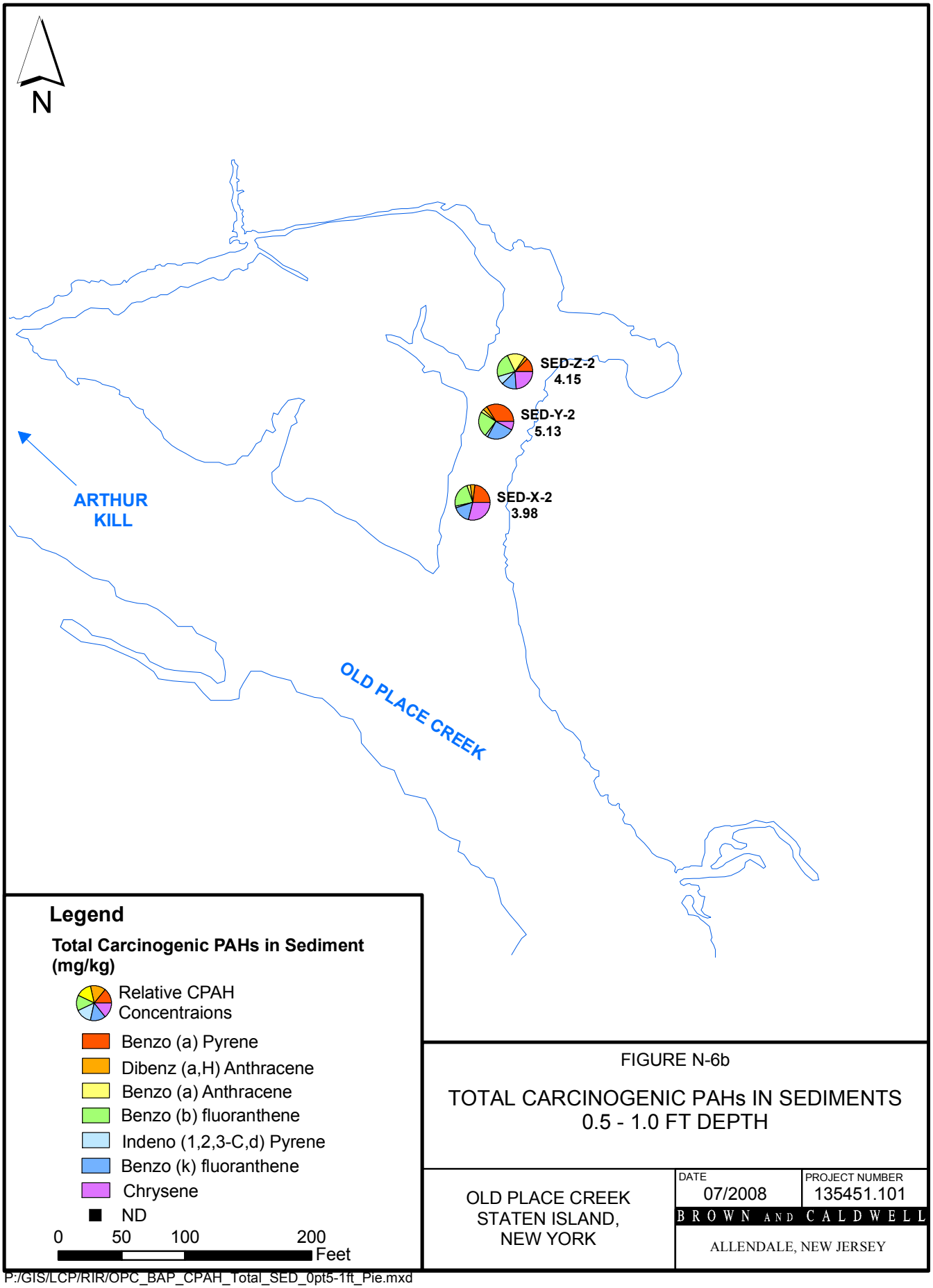


FIGURE N-6b

TOTAL CARCINOGENIC PAHs IN SEDIMENTS
0.5 - 1.0 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_BAP_CPAH_Total_SED_0pt5-1ft_Pie.mxd

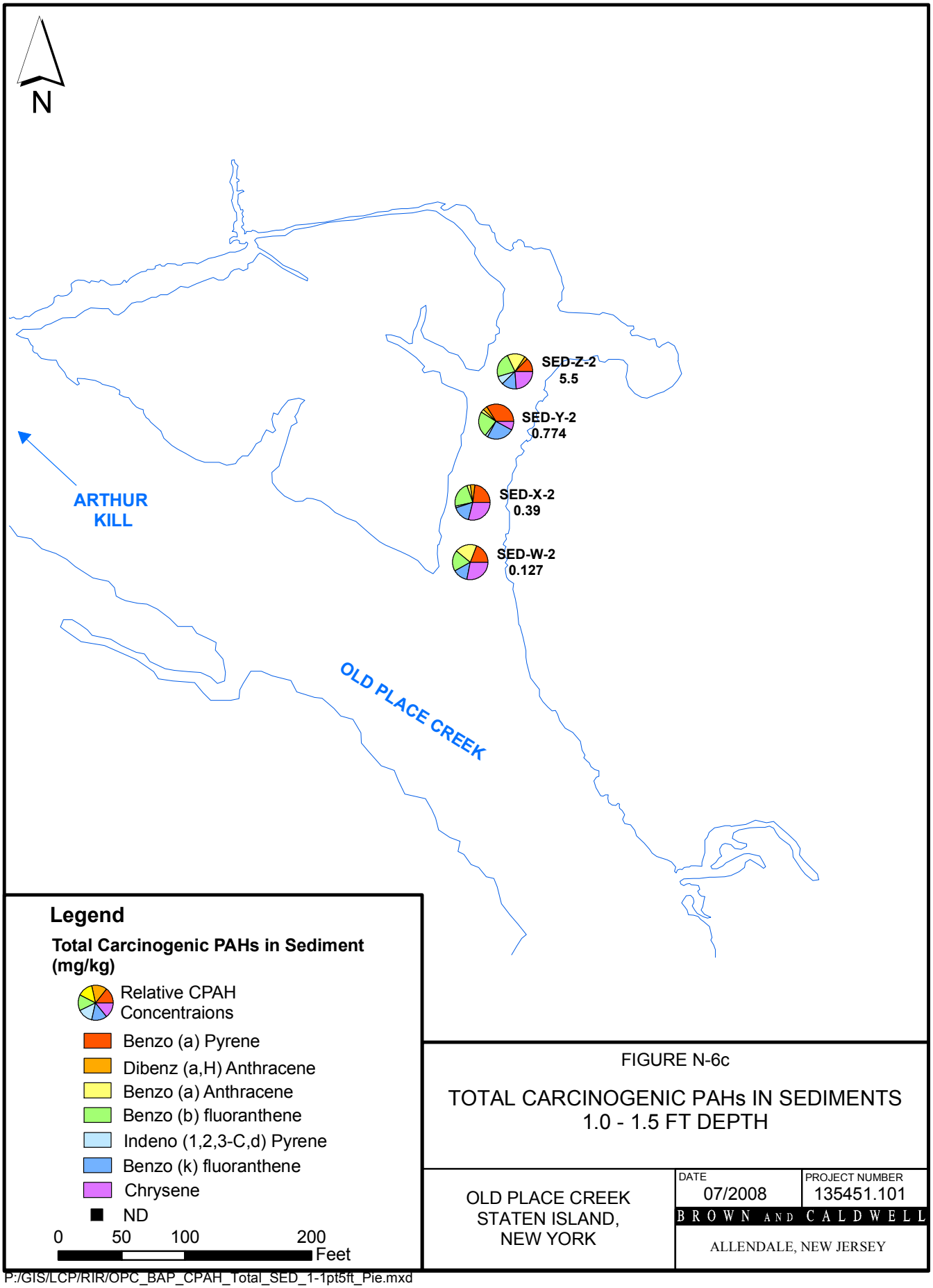


FIGURE N-6c

TOTAL CARCINOGENIC PAHs IN SEDIMENTS
1.0 - 1.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_BAP_CPAH_Total_SED_1-1pt5ft_Pie.mxd

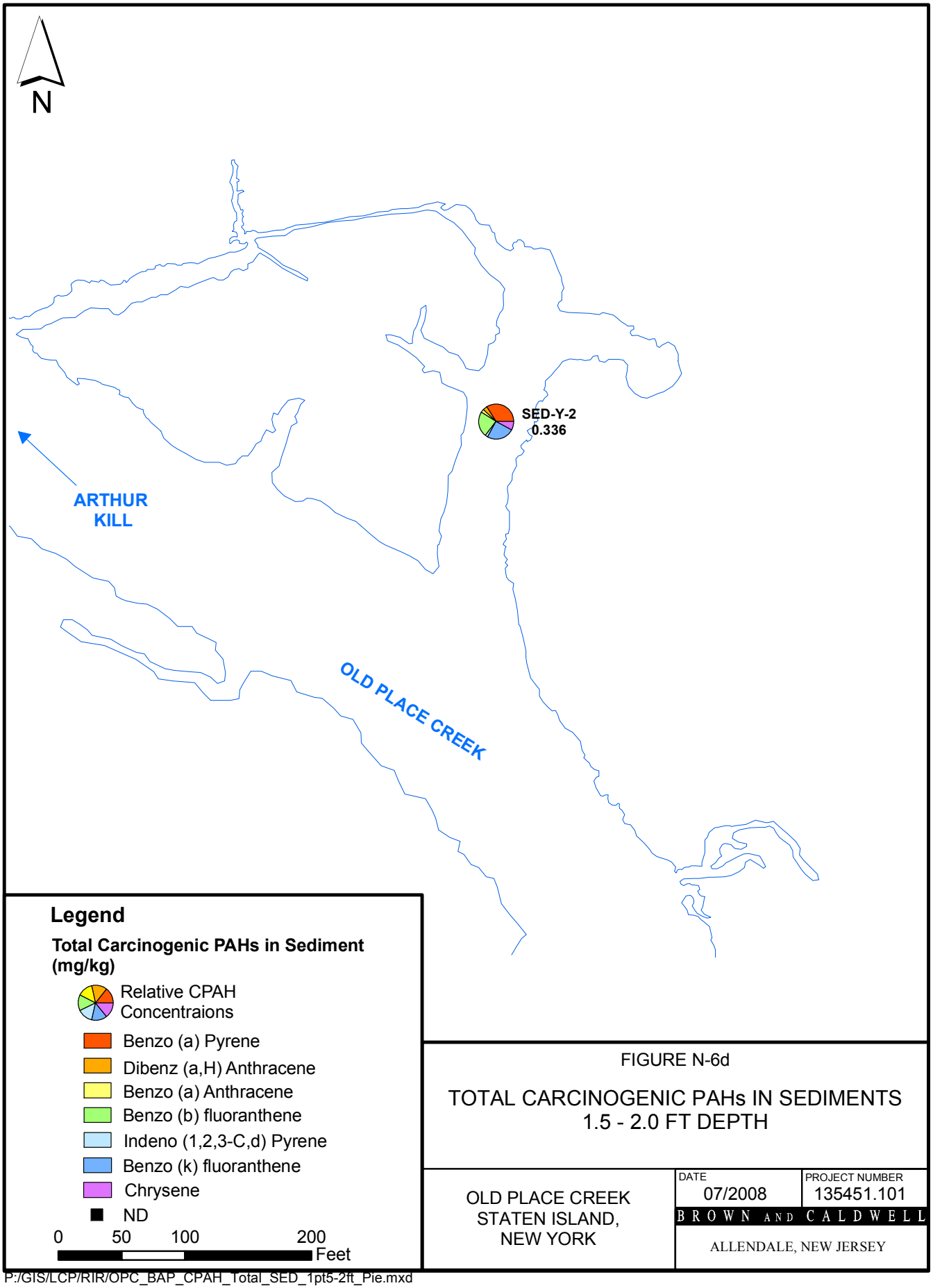


FIGURE N-6d

TOTAL CARCINOGENIC PAHs IN SEDIMENTS
1.5 - 2.0 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

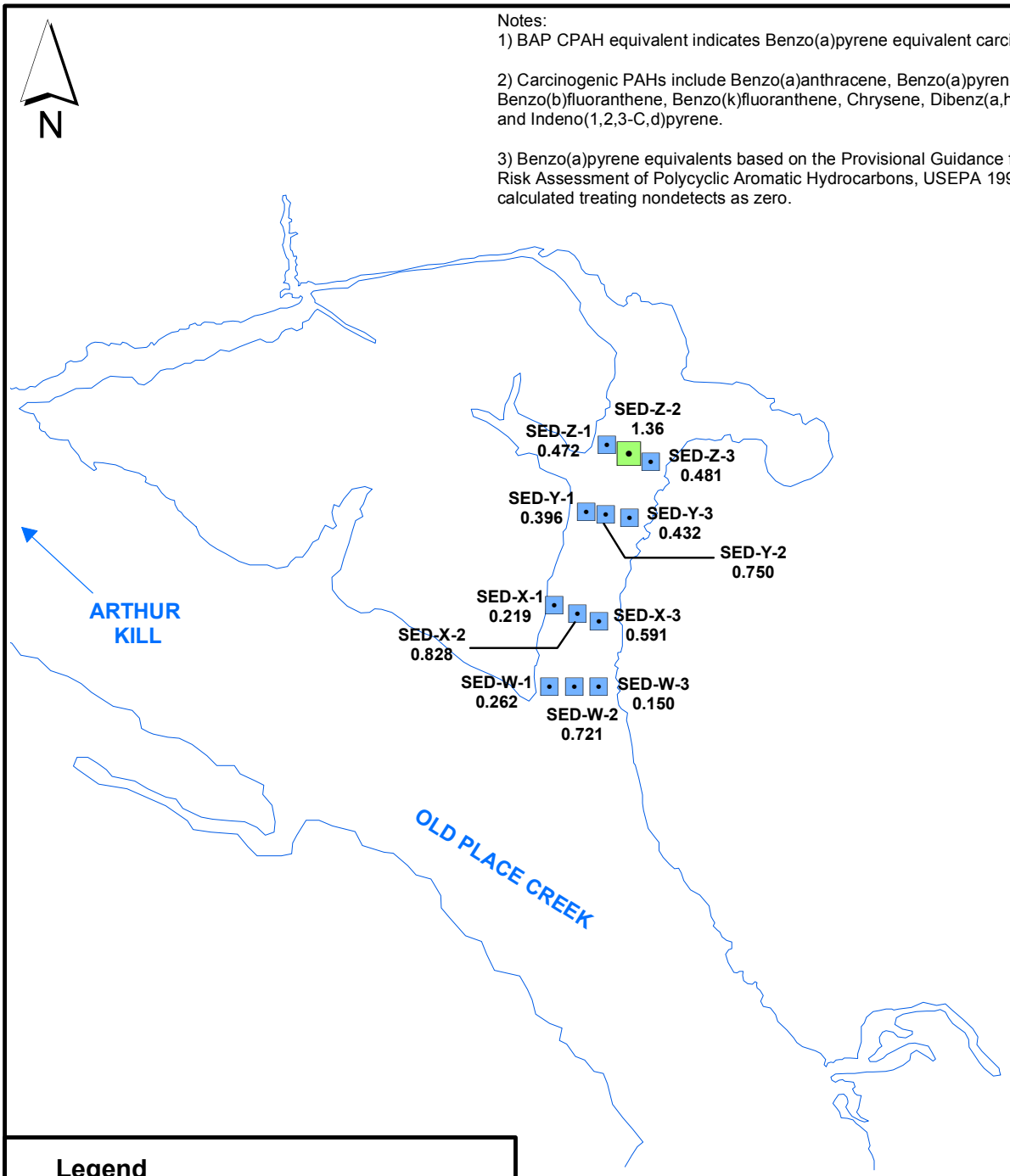
ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_BAP_CPAH_Total_SED_1pt5-2ft_Pie.mxd

Notes:
1) BAP CPAH equivalent indicates Benzo(a)pyrene equivalent carcinogenic PAHs.

2) Carcinogenic PAHs include Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, and Indeno(1,2,3-C,d)pyrene.

3) Benzo(a)pyrene equivalents based on the Provisional Guidance for Quantative Risk Assessment of Polycyclic Aromatic Hydrocarbons, USEPA 1993. Totals calculated treating nondetects as zero.



Legend

BAP CPAH Equivalent in Sediment[1] (mg/kg)

Phase II (2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-7a

BAP CPAH EQUIVALENT IN SEDIMENTS
0 - 0.5 DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

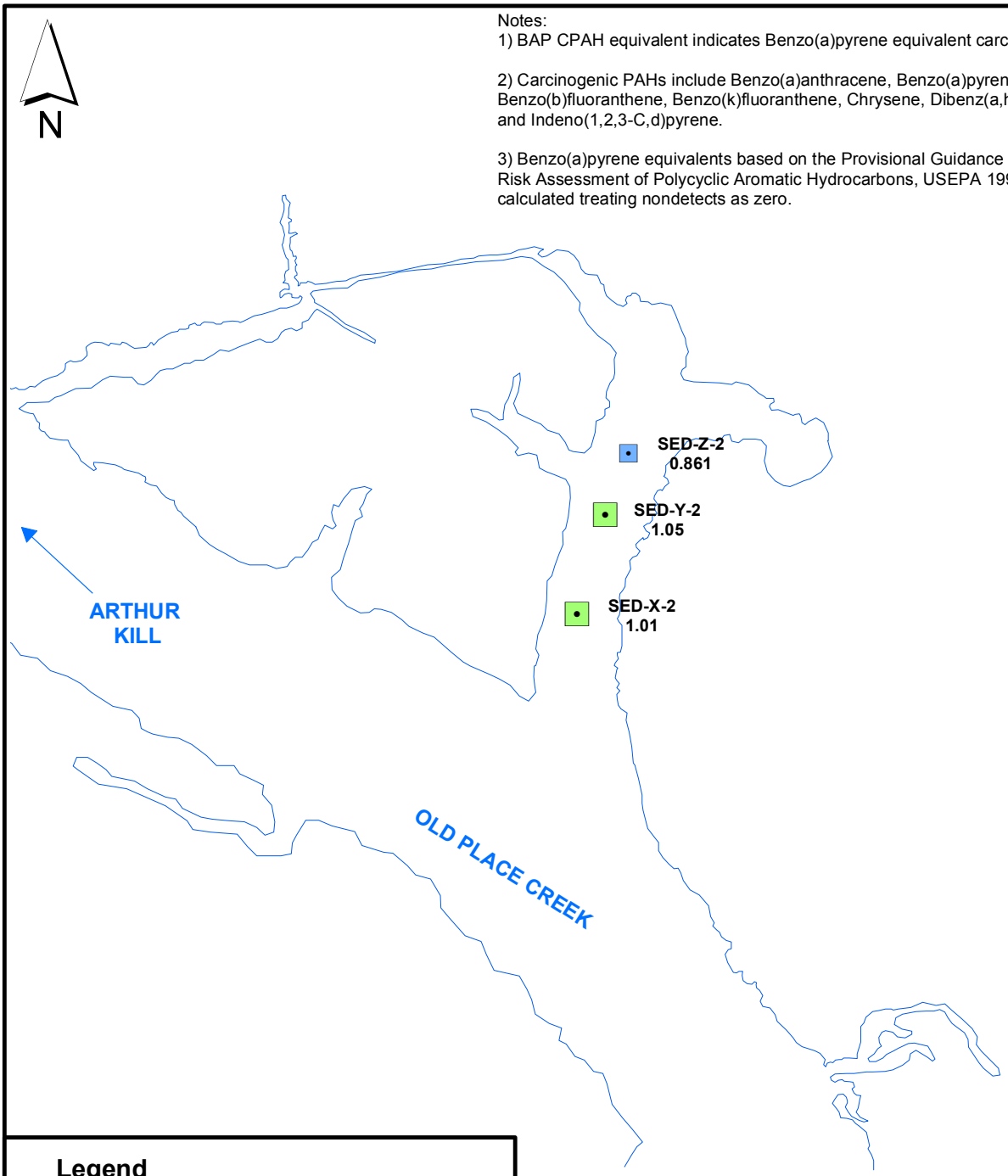
ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_BAP_CPAH_Eq_SED_0-0pt5ft.mxd

Notes:
1) BAP CPAH equivalent indicates Benzo(a)pyrene equivalent carcinogenic PAHs.

2) Carcinogenic PAHs include Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, and Indeno(1,2,3-C,d)pyrene.

3) Benzo(a)pyrene equivalents based on the Provisional Guidance for Quantative Risk Assessment of Polycyclic Aromatic Hydrocarbons, USEPA 1993. Totals calculated treating nondetects as zero.



Legend

BAP CPAH Equivalent in Sediment[1] (mg/kg)

Phase II
(2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-7b

BAP CPAH EQUIVALENT IN SEDIMENTS
0.5 - 1.0 DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

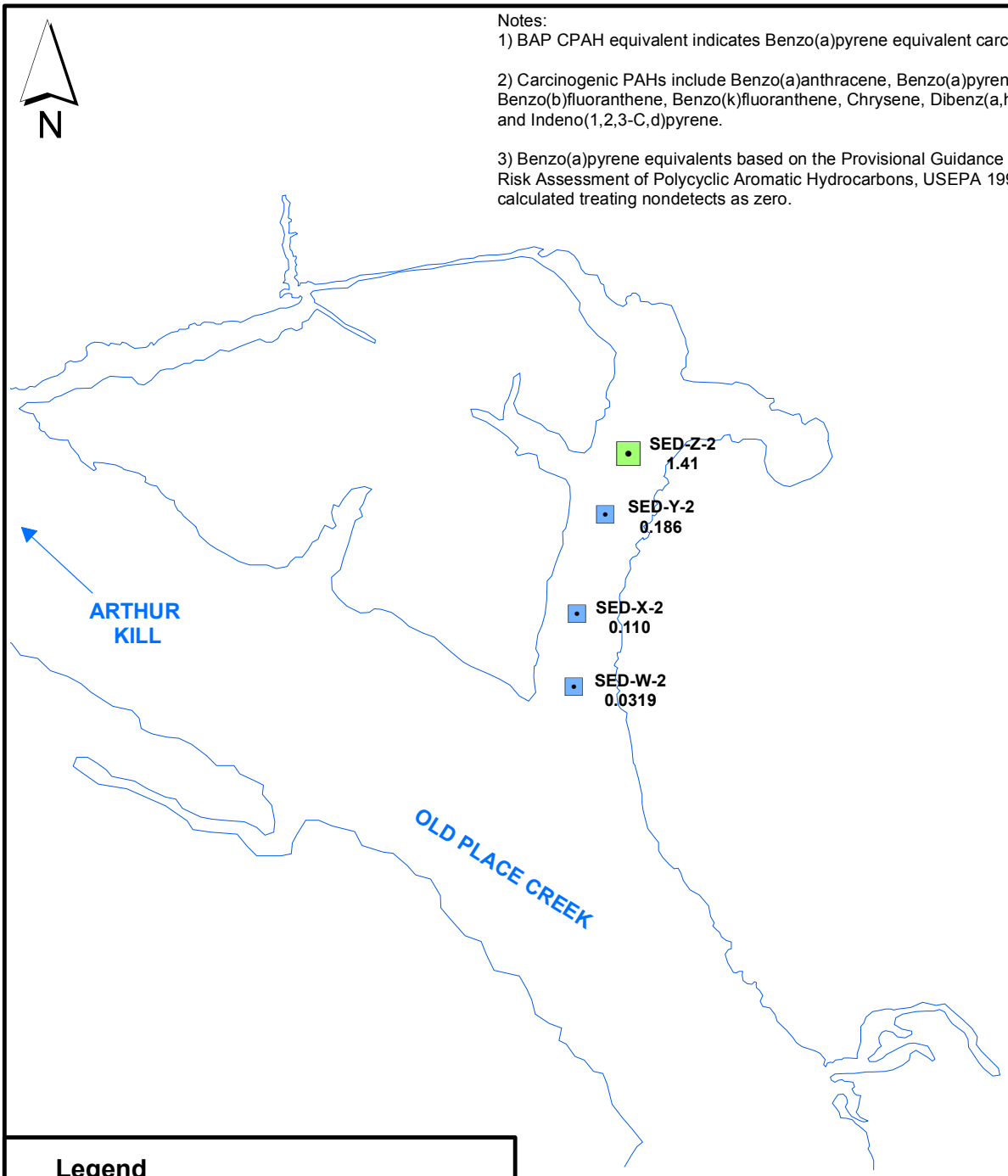
ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_BAP_CPAH_Eq_SED_0pt5-1ft.mxd

Notes:
1) BAP CPAH equivalent indicates Benzo(a)pyrene equivalent carcinogenic PAHs.

2) Carcinogenic PAHs include Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, and Indeno(1,2,3-C,d)pyrene.

3) Benzo(a)pyrene equivalents based on the Provisional Guidance for Quantative Risk Assessment of Polycyclic Aromatic Hydrocarbons, USEPA 1993. Totals calculated treating nondetects as zero.



Legend

BAP CPAH Equivalent in Sediment[1] (mg/kg)

Phase II (2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-7c

BAP CPAH EQUIVALENT IN SEDIMENTS
1.0 - 1.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

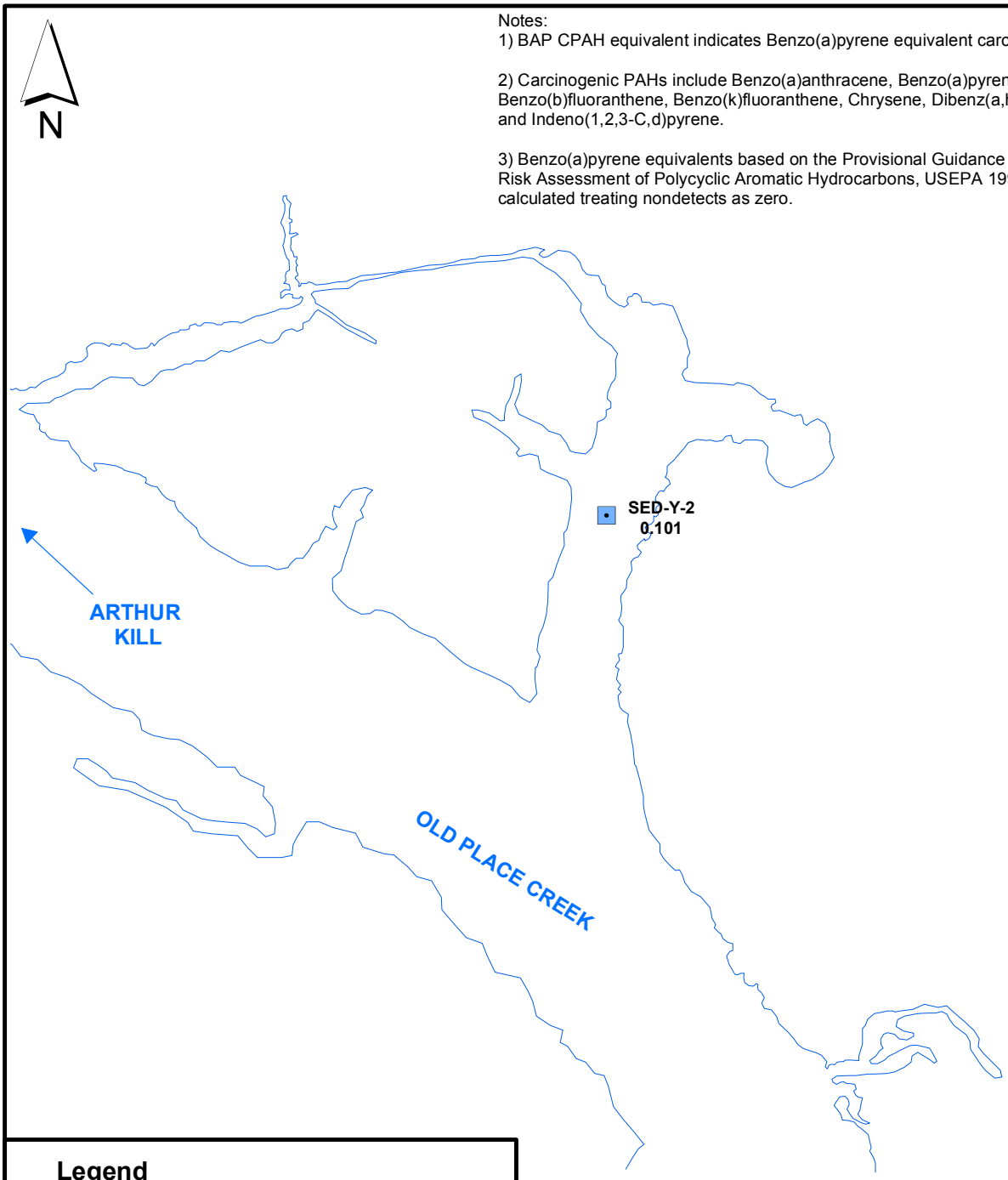
ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_BAP_CPAH_Eq_SED_1-1pt5ft.mxd

Notes:
1) BAP CPAH equivalent indicates Benzo(a)pyrene equivalent carcinogenic PAHs.

2) Carcinogenic PAHs include Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, and Indeno(1,2,3-C,d)pyrene.

3) Benzo(a)pyrene equivalents based on the Provisional Guidance for Quantative Risk Assessment of Polycyclic Aromatic Hydrocarbons, USEPA 1993. Totals calculated treating nondetects as zero.



Legend

BAP CPAH Equivalent in Sediment[1] (mg/kg)

Phase II
(2006)

- ND
- >ND-1
- >1-10
- >10-100
- >100

0 50 100 200 Feet

FIGURE N-7d

BAP CPAH EQUIVALENT IN SEDIMENTS
1.5 - 2.0 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

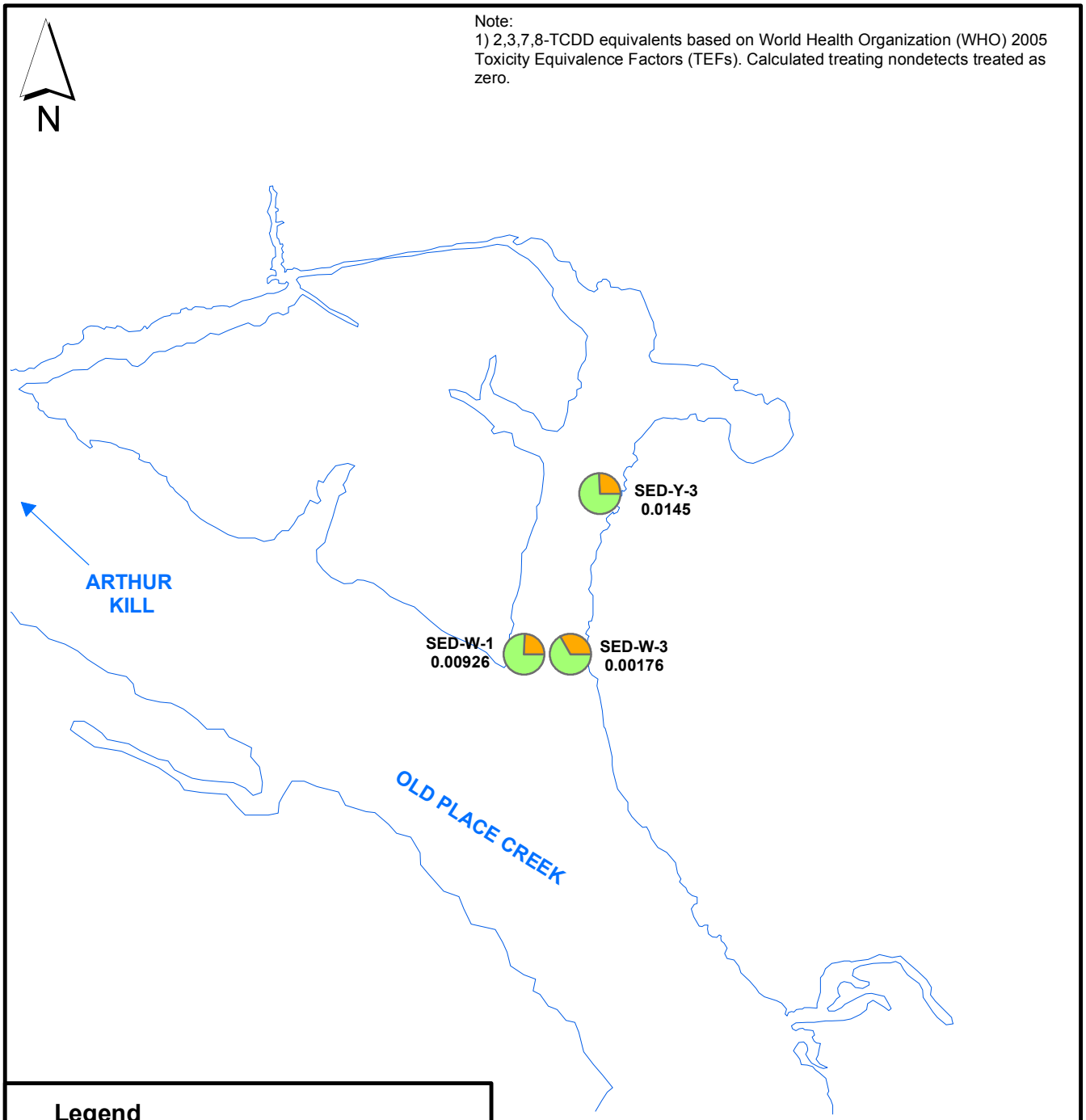
DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_BAP_CPAH_Eq_SED_1pt5-2ft.mxd

Note:
1) 2,3,7,8-TCDD equivalents based on World Health Organization (WHO) 2005 Toxicity Equivalence Factors (TEFs). Calculated treating nondetects treated as zero.



Legend

2,3,7,8-TCDD TEQ in Sediment (ng/g (ppb))

- Relative TEQ Concentraions
- Polychlorinated dibenzo-p-furans
- Polychlorinated dibenzo-p-dioxins
- ND

0 50 100 200 Feet

FIGURE N-8

2,3,7,8-TCDD TEQ IN SEDIMENTS
0 - 0.5 FT DEPTH

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
08/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_TEQ_SED_0-0pt5ft_Pie.mxd

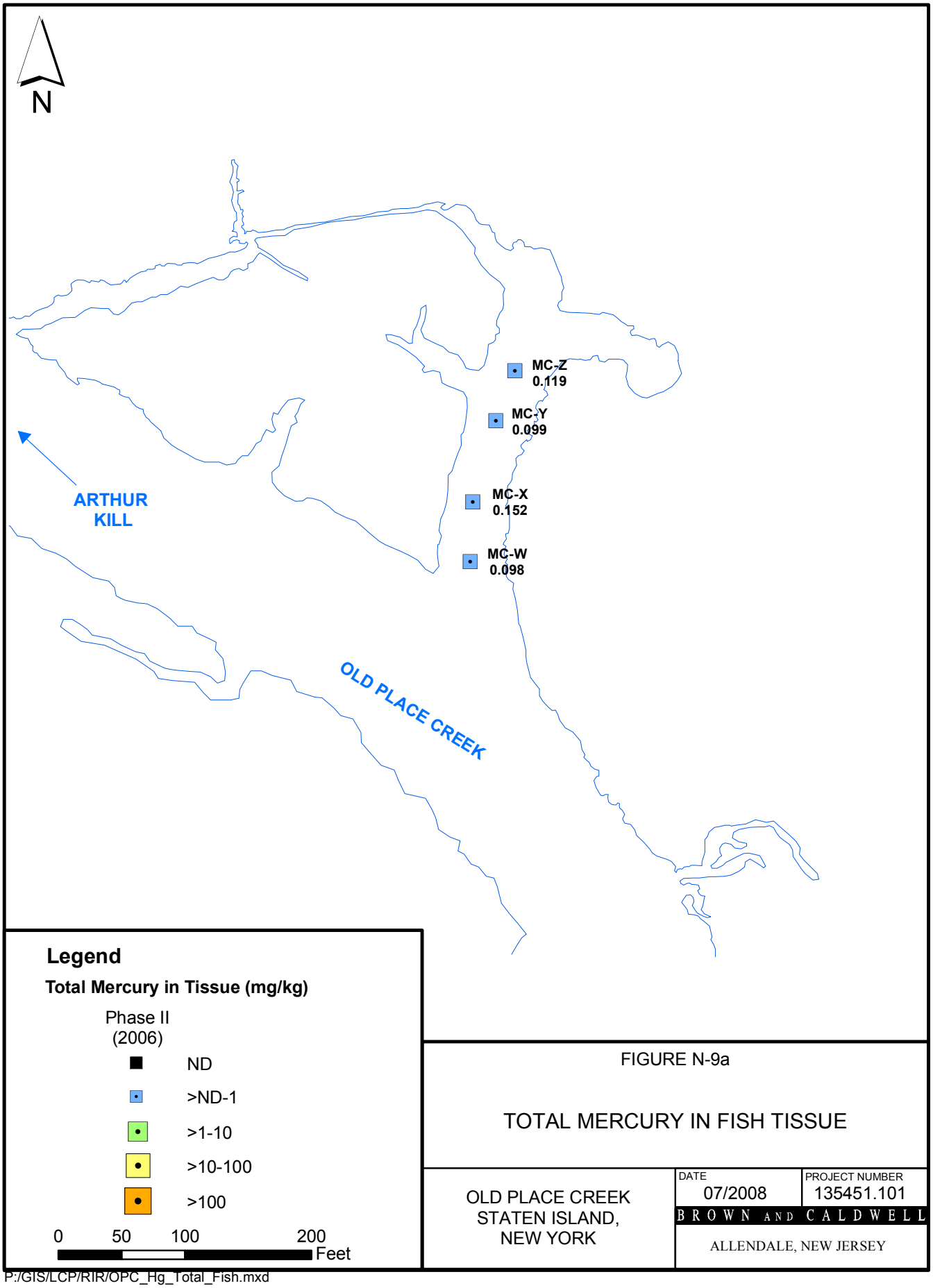


FIGURE N-9a

TOTAL MERCURY IN FISH TISSUE

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_Hg_Total_Fish.mxd

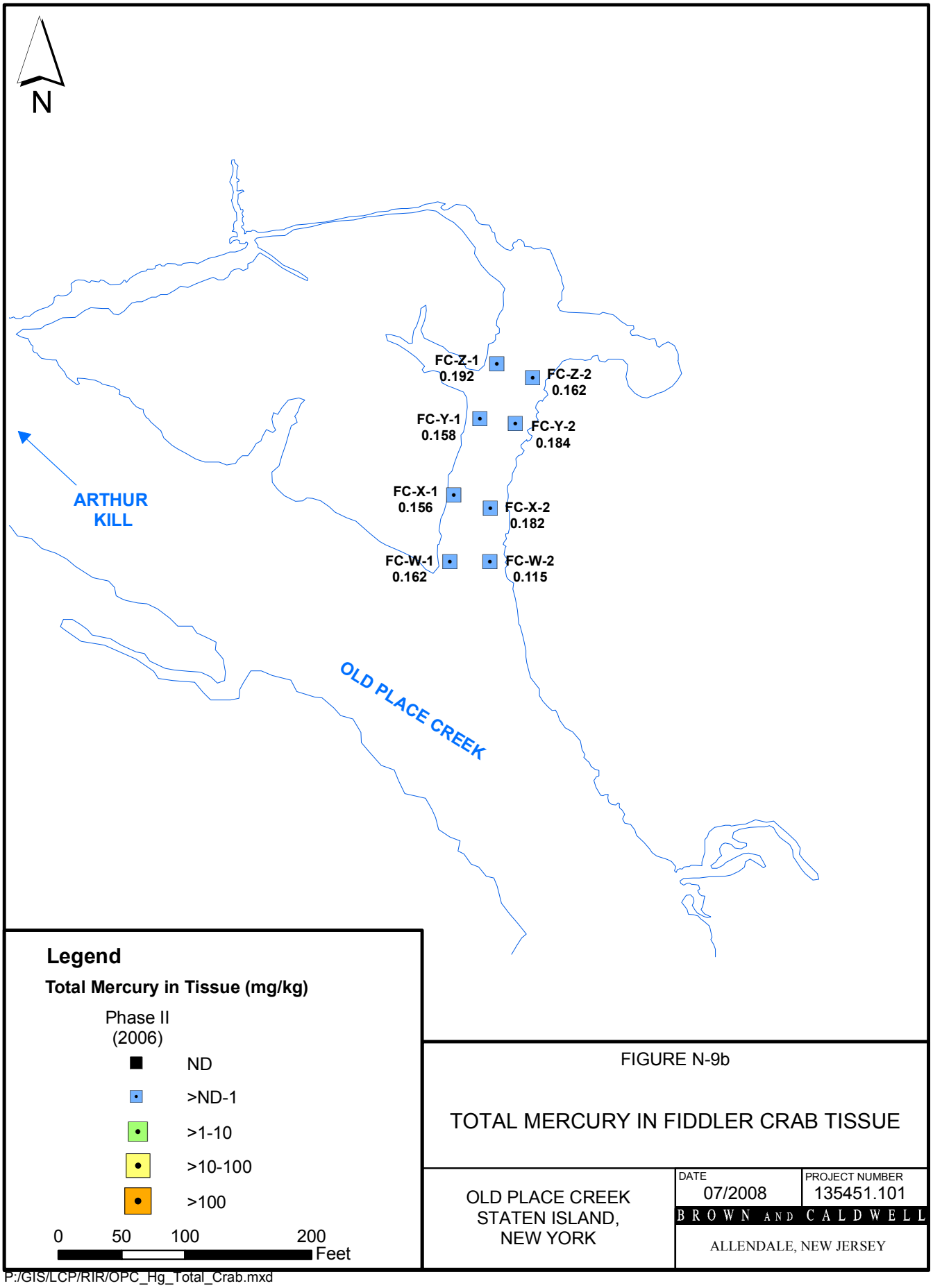


FIGURE N-9b

TOTAL MERCURY IN FIDDLER CRAB TISSUE

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_Hg_Total_Crab.mxd

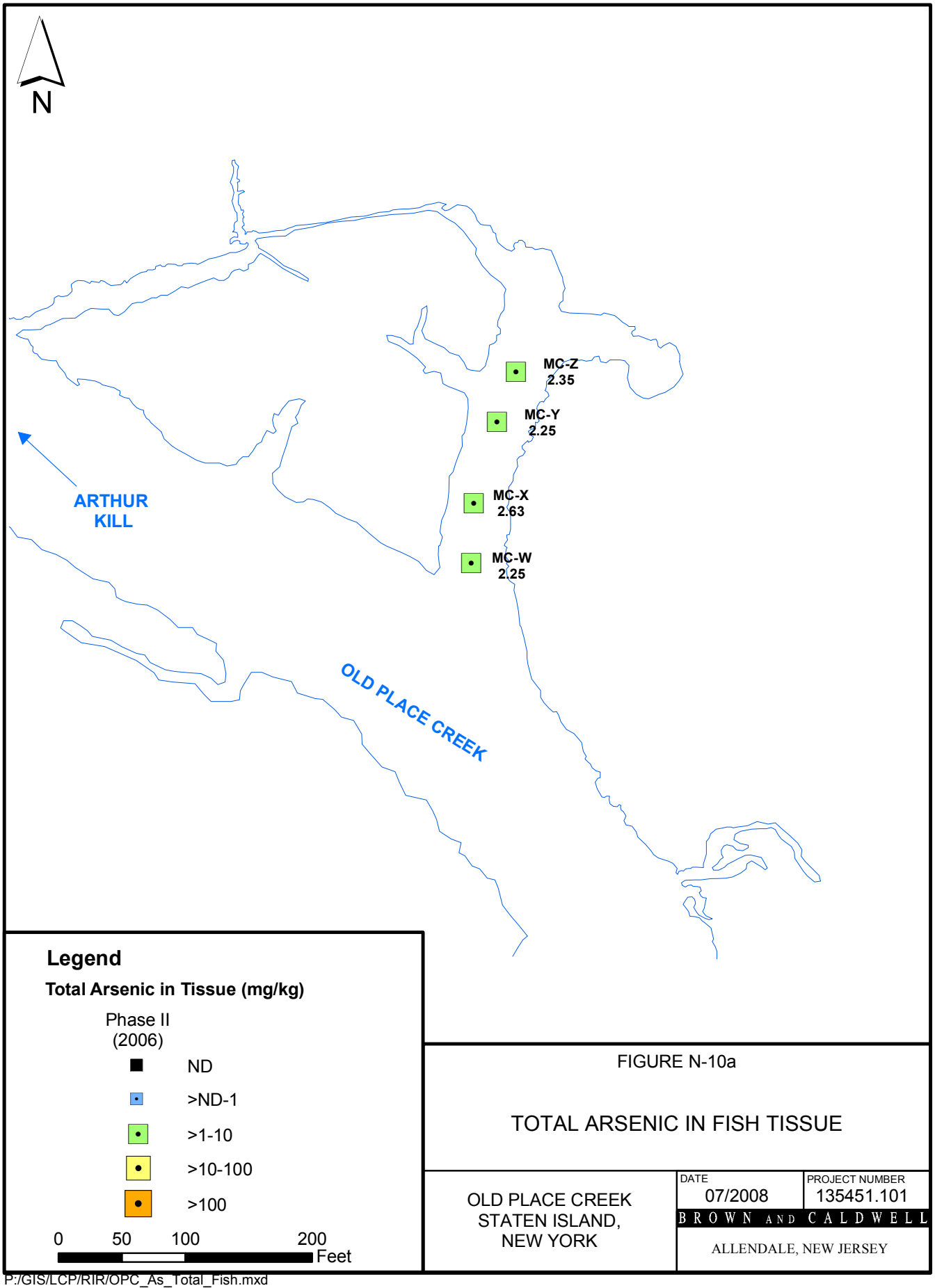


FIGURE N-10a

TOTAL ARSENIC IN FISH TISSUE

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_As_Total_Fish.mxd

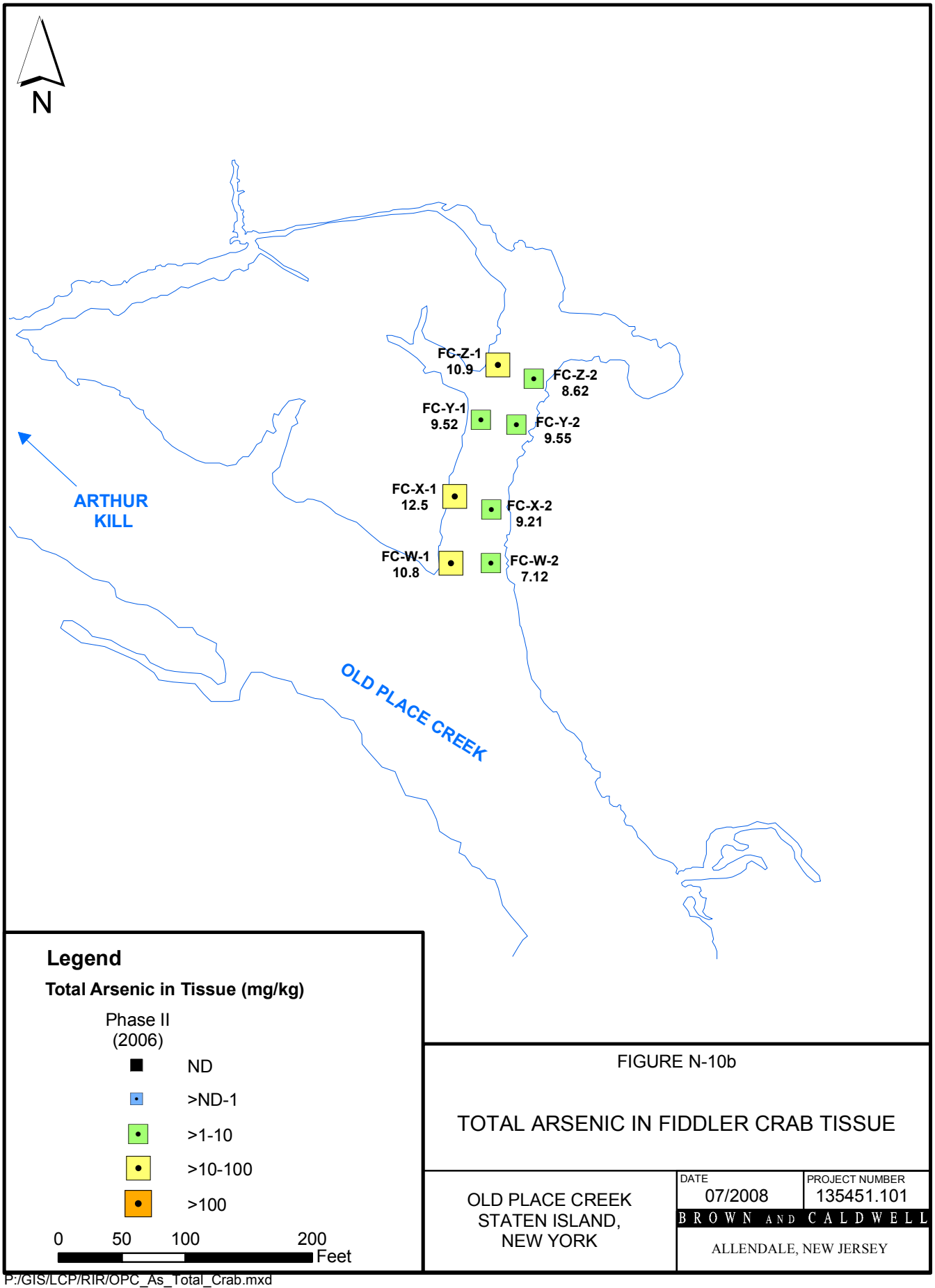


FIGURE N-10b

TOTAL ARSENIC IN FIDDLER CRAB TISSUE

OLD PLACE CREEK
STATEN ISLAND,
NEW YORK

DATE	PROJECT NUMBER
07/2008	135451.101

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/OPC_As_Total_Crab.mxd

ATTACHMENT 1

Ecological Assessment Report

BROWN AND CALDWELL

Ecological Assessment Report

LCP Chemicals Reference Channel

Staten Island
Richmond County, New York

August 23, 2007

THE Chazen COMPANIES®

Engineers / Surveyors
Planners
Environmental Scientists
Landscape Architects

Prepared for:

ISP Environmental Services, Inc.
1361 Alps Road
Wayne, New Jersey 07470

Ecological Assessment Report

LCP Chemicals Reference Channel

Staten Island
Richmond County, New York

August 23, 2007

Prepared by:

Chazen Engineering, Land Surveying & Landscape Architecture Co., P.C.
or
Chazen Environmental Services, Inc.
356 Meadow Avenue
Newburgh, New York 12550
(845) 567-1133

Dutchess County	*Orange County*	*Capital District*	*North Country*
(845) 454-3980	*(845) 567-1133*	*(518) 273-0055*	*(518) 812-0513*

EXECUTIVE SUMMARY

This Ecological Assessment (EA) Report was completed by The Chazen Companies (TCC) for ISP Environmental Services, Inc. as part of the Phase II Remedial Investigation of the 26-acre LCP Chemical Superfund site located in the City of Linden, Union County, New Jersey.

As part of the ERA, a Reference Channel located within the same biotic system as the LCP Chemical site was chosen to provide a means of evaluating the data collected within South Branch Creek, which is located at the LCP Site. This comparison is necessary to determine if the data obtained from South Branch Creek are indicative of previous site use or are representative of conditions throughout the Arthur Kill and its tributaries. It should be noted that the Reference Channel was only selected for comparison to South Branch Creek, and not to the entire LCP Site. The following sections of this report describe the methodologies used in the EA for the Reference Channel and provide a detailed description of the Reference Channel and the ecological resources present within the surrounding area.

The methodology utilized to complete this EA consisted of gathering information from federal, state, and local agencies, supplemented by site visits designed to identify and characterize the Reference Channel's flora and fauna. Additionally, the Reference Channel was studied for the presence of endangered, threatened, and/or rare (ETR) species and their habitats.

The Reference Channel is a tidal channel/tributary of Old Place Creek, which consists of salt marshes and an adjacent successional southern hardwood forest. Old Place Creek is a tidal creek that flows adjacent to the Reference Channel and eventually connects to the Arthur Kill. Heavy industrial development surrounds the Reference Channel.

During this EA, 17 species of plants, 29 species of wildlife, and 3 ecological communities were identified within the Reference Channel and immediate surrounding area (i.e., Reference Channel Area).

A review of the Comprehensive List of Endangered and Threatened Species provided on the United States Fish and Wildlife Service's (USFWS) New York Field Office website identified the federally-endangered shortnose sturgeon (*Acipenser brevirostrum*) as a species which could occur in Richmond County, New York. The Arthur Kill and Old Place Creek could potentially provide habitat for this species. A review of endangered and threatened species data listed on the USWFS's New Jersey Field Office website identified the federally-threatened bog turtle (*Clemmys muhlenbergii*) and federally-endangered Indiana bat (*Myotis sodalis*) as species

which could occur in the Union County, New Jersey, which is located immediately west of the Reference Channel. Suitable habitat for Indiana bats was not identified at the Reference Channel or in the immediate surrounding area (i.e., Reference Channel Area). Suitable bog turtle habitat was also not identified at the Reference Channel Area. In addition, bog turtles are only known in municipalities located in the western portion of Union County.

Correspondence with the New York State Department of Environmental Conservation (NYSDEC) indicated that the state-endangered eastern mud turtle (*Kinosternon subrubrum*) and peregrine falcon (*Falco peregrinus*), and the state-threatened least bittern (*Ixobrychus exilis*), pied-billed grebe (*Podilymbus podiceps*), and persimmon (*Diospyros virginiana*) have been documented in the vicinity of the Reference Channel. Although primary habitat for all of these species was identified within the Reference Channel, TCC did not observe any of these species during this EA. Several other ETR species were observed during site visits at the Reference Channel. An osprey (*Pandion haliaetus*), a NYSDEC Species of Concern and a New Jersey Department of Environmental Protection (NJDEP) threatened-species, was observed hunting over the Reference Channel Two yellow-crowned night herons (*Nyctanassa violacea*), a New York State-protected species and a NJDEP threatened-species, were also observed foraging along Old Place Creek. No significant ecological communities were identified within the Reference Channel.

TCC reviewed endangered and threatened species data provided through the New Jersey Department of Environmental Protection's (NJDEP) Landscape Project to determine if suitable habitat for any New Jersey State listed species is located in vicinity of the project area. According to the Landscape Project data, within New Jersey there is no suitable habitat for any endangered or threatened species mapped within ¼ mile of Reference Channel. However, black-crowned night heron, yellow-crowned night heron, and colonial bird foraging habitat is located within a ½ mile of the Reference Channel. Black-crowned and yellow-crowned night herons are listed as threatened species in New Jersey. Suitable habitat for these species was identified at the Reference Channel and both of these species were also observed by TCC in the Reference Channel Area.

The Reference Channel is located within the Harbor Herons Bird Conservation Area, which supports the largest breeding bird population of colonial water birds in the northeastern United States. The Reference Channel is also located within the Atlantic coast migration corridor. Numerous migrating land and water birds use areas along the corridor as a stopover/overwintering sites, and the corridor is regularly used by migrating birds and approximately 50 different kinds of landbirds travel this flyway.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i

1.0 Introduction 1

1.1 Surrounding Landscape 4

2.0 Methodology 5

2.1 Federal and State Agencies and Literature Review 5

2.2 Endangered and Threatened Species 6

2.3.1 Ecological Communities 9

2.3.2 Wildlife 9

3.0 Existing physical conditions 10

3.1 Topography 10

3.2 Hydrology and Wetland Mapping 11

3.2.1 Watercourses 11

3.2.2 Wetland Mapping 11

4.0 Results 14

4.1 Ecological Communities 14

4.2 Fauna 18

4.2.1 Mammals 18

4.2.2 Reptiles and Amphibians 18

4.2.3 Fish and Invertebrates 18

4.2.4 Birds 19

4.2.5 Endangered, Threatened, and Rare (ETR) Wildlife Species 20

5.0 LCP Chemical Site and Reference Channel Comparison 20

5.1 Site Features 20

5.2 Surrounding Landscape 21

5.3 Physical Parameters 21

5.4 Ecological Parameters 22

6.0 Conclusions 23

LIST OF FIGURES

Figure 1.0-1 Site Location Map 2

Figure 1.0-2 Aerial Map 3

Figure 3.2-1 Wetlands and Watercourses Map 13

Figure 4.1-1 Ecological Communities Map 17

LIST OF TABLES

Table 4.1.1 List of Vegetation observed within the Tidal Creek Community 15

Table 4.1.2 List of Vegetation observed within the High Salt Marsh Community 15

Table 4.1.3 List of Vegetation observed within the Southern Successional Hardwood Forest Community 16

Table 4.2.1 Mammal Species Observed 18

Table 4.2.3 Fish and Invertebrate Species Observed 18

Table 4.2.4 Bird Species Observed 19

Table 5.3-1 South Branch Creek Parameters 21

Table 5.3-2 Reference Channel Parameters 22

Table 5.4-1 Ecological Attributes of South Branch Creek and the Reference Channel 22

LIST OF APPENDICES

Appendix A: Correspondence
Appendix B: Site Photographs

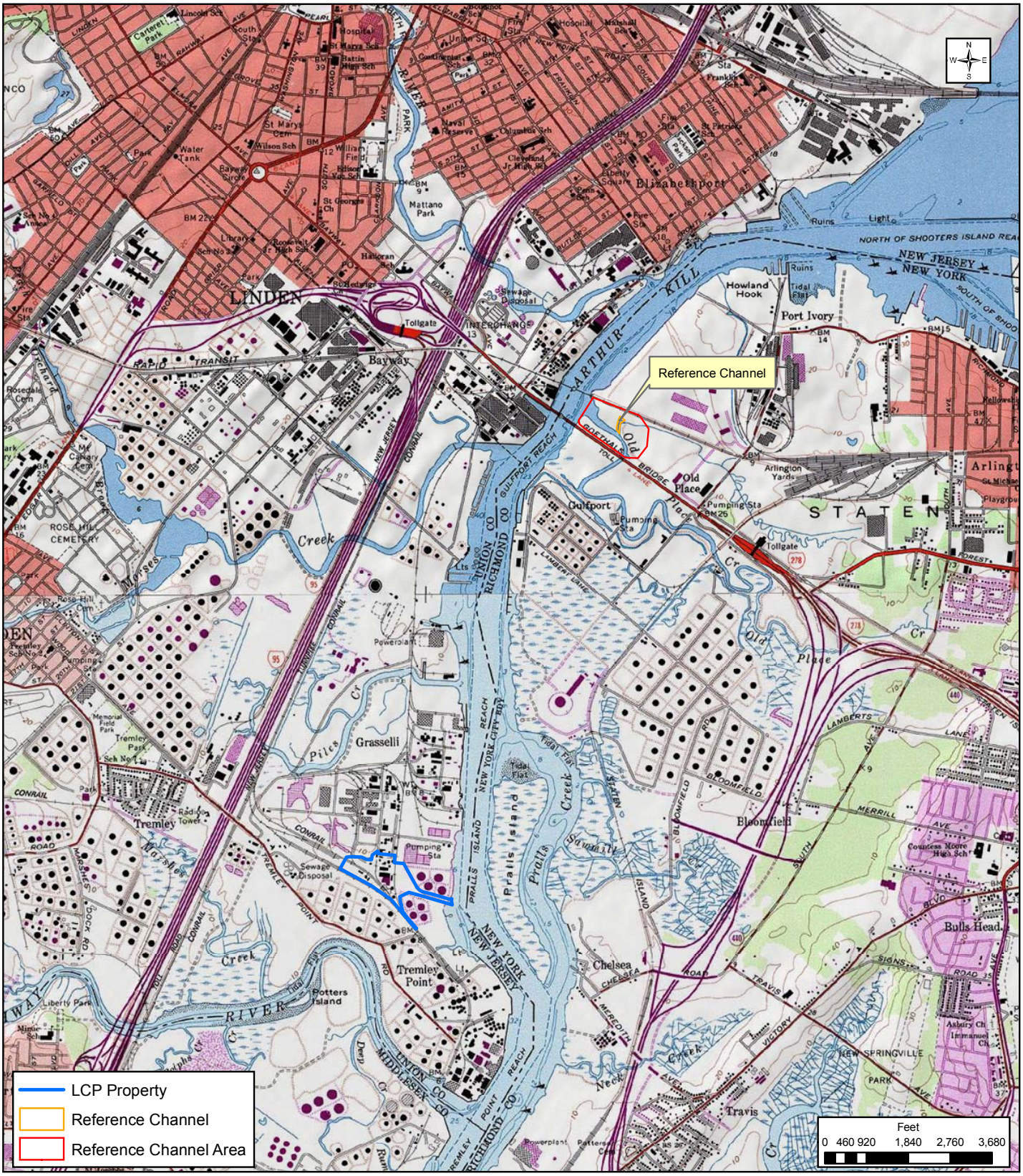
1.0 Introduction

This Ecological Assessment (EA) Report was completed by The Chazen Companies (TCC) for ISP Environmental Services, Inc. as part of the Phase II Remedial Investigation of the 26-acre LCP Chemical Superfund site located in the City of Linden, Union County, New Jersey. As part of the ERA, a site (i.e., Reference Channel) within the same biotic region was chosen to provide a means of evaluating the data collected at South Branch Creek, which is located within the LCP Site. Physical parameters of surface water such as salinity, dissolved oxygen, temperature, and pH were compared between South Branch Creek and the Reference Channel. Ecological parameters such as the plant and animal species composition at each location were also inventoried to characterize existing populations, habitats, and communities. This comparison is necessary to determine if the data obtained from South Branch Creek are indicative of previous site use or are representative of conditions throughout the Arthur Kill and its tributaries. The Reference Channel is located approximately 1.8 miles north of the LCP Chemicals Superfund Site. Figure 1.0-1, "Site Location Map," identifies the "Reference Channel" on the *USGS Elizabeth, NY-NJ (1967, photorevised 1981) Topographic Quadrangle*.

The Reference Channel is located in a heavily industrialized area along the Arthur Kill. The Howland Hook Marine Terminal, a container/cargo facility owned by the Port Authority of New York and New Jersey, is located approximately 400 feet north of the Reference Channel. Warehouses and distribution facilities are located to the east. Industrial operations are also located on the western edge of the Arthur Kill. NYSDEC Wetland AR-42 is located south of the Reference Channel. Bulk petroleum storage tanks border the eastern and western sides of Wetland AR-42. Figure 1.0-2, "Aerial Map," depicts the land-use patterns surrounding the Reference Site.

Currently, the Reference Channel consists of a tidal channel of Old Place Creek, which contains salt marshes and a successional southern hardwood forest. Old Place Creek is a tidal creek that flows south of the Reference Channel and eventually connects to the Arthur Kill.

The following sections of this report describe the methodologies used in the EA and provide a detailed description of the Reference Channel and the ecological resources present at the Reference Channel.



THE Chazen COMPANIES

Engineers/Surveyors
Planners
Environmental Scientists
GIS Consultants

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:	Orange County Office:	Capital District Office:	North Country Office:
21 Fox Street	356 Meadow Avenue	547 River Street	110 Glen Street
Poughkeepsie, NY 12601	Newburgh, NY 12550	Troy, NY 12180	Glens Falls, NY 12801
Phone: (845) 454-3980	Phone: (845) 567-1133	Phone: (518) 273-0055	Phone: (518) 812-0513

This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of this map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

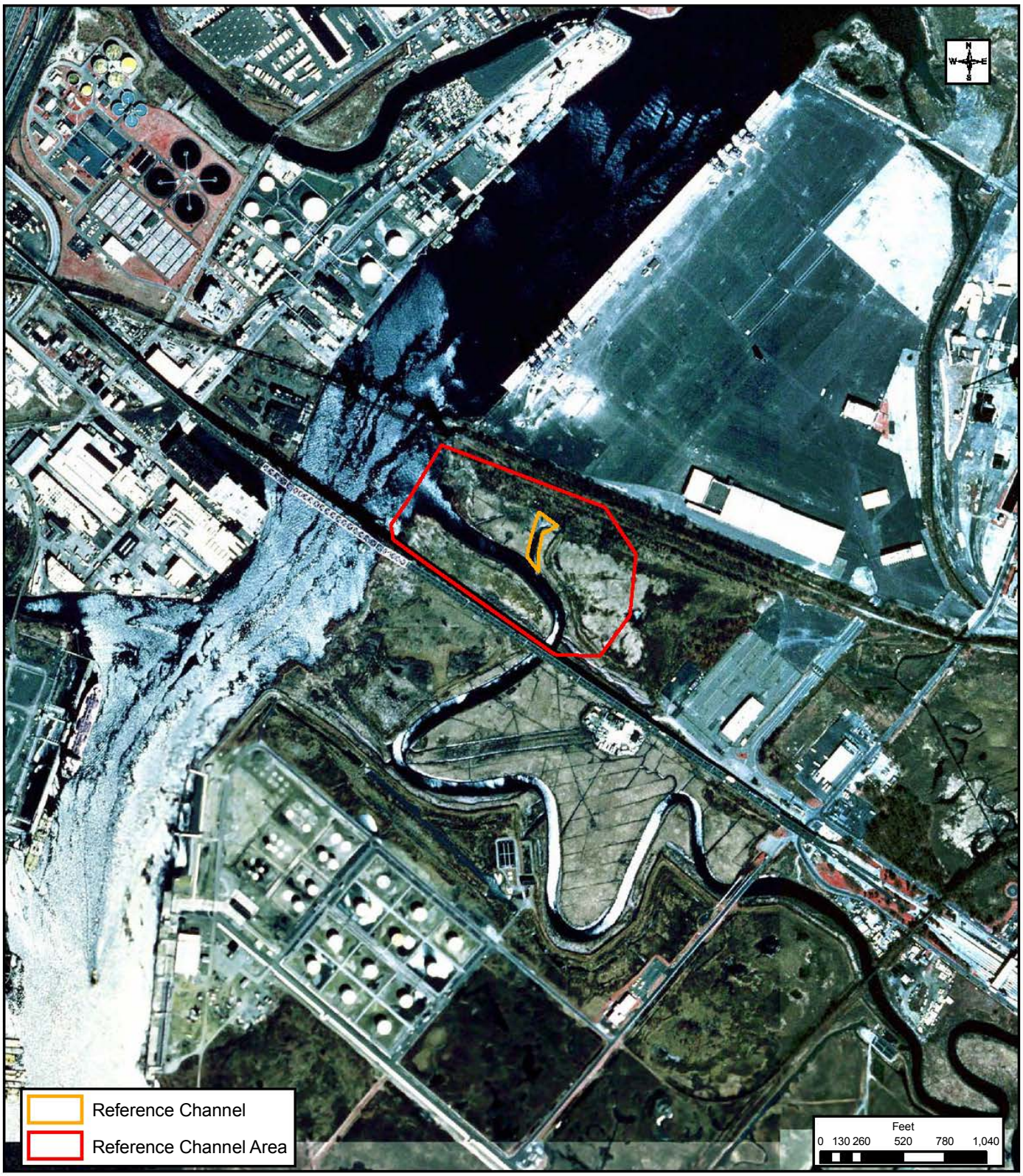
LCP Chemicals Reference Channel

Figure 1.0-1:
Site Location Map

Staten Island
Richmond County, New York

Created by:	J.F.T.
Date:	10/31/2006
Scale:	1:33,990
Project #:	70620.00

R2-0005862



THE Chazen COMPANIES
Engineers/Surveyors
Planners
Environmental Scientists
GIS Consultants

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:	Orange County Office:	Capital District Office:	North Country Office:
21 Fox Street	356 Meadow Avenue	547 River Street	110 Glen Street
Poughkeepsie, NY 12601	Newburgh, NY 12550	Troy, NY 12180	Glens Falls, NY 12801
Phone: (845) 454-3980	Phone: (845) 567-1133	Phone: (518) 273-0055	Phone: (518) 812-0513

This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of this map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

LCP Chemicals Reference Channel

Figure 1.0-2:
Aerial Map

Staten Island
Richmond County, New York

Created by:	J.F.T.
Date:	08/03/07
Scale:	1:9,681
Project #:	70620.00

1.1 Surrounding Landscape

The landscape surrounding the Reference Channel Area consists primarily of industrial operations and salt marsh wetlands. Industrial operations in the surrounding area include the Howland Hook Marine Terminal owned by the Port Authority of New York and New Jersey to the north and east, bulk petroleum storage tanks to the west, and bulk petroleum storage facilities to the south.

Several watercourses are located in the area surrounding the Reference Channel. The Arthur Kill, located west of the Reference Channel, is a large tidal strait approximately 700-1,200 feet wide and greater than 30 feet deep. The Kill Van Kull is an approximately 1,000 feet wide tidal strait located along the northern portion of Staten Island. Both watercourses are heavily used by commerce ships. The Elizabeth River is located northwest of the Reference Channel and discharges into the Arthur Kill from the west. The Elizabeth River is bordered by heavy industry and bulk petroleum storage facilities. Morses Creek is a tidal creek located southwest of the Reference Channel that is primarily bordered by bulk petroleum storage facilities.

Several important bird rookeries are also located near the Reference Channel. Pralls Island is located approximately two miles south of the Reference Channel within the Arthur Kill. This uninhabited island is approximately 80-acres and was created from dredge spoil deposits. The central portion of the island is a forest dominated by tree-of-heaven (*Ailanthus altissima*), gray birch (*Betula populifolia*), and black cherry (*Prunus serotina*)[1]. The trees in this area are all less than 30 feet in height. The perimeter of the island consists of tidal wetlands dominated by smooth cordgrass (*Spartina alternifolia*) and common reed (*Phragmites australis*). The island is owned by the City of New York Department of Parks and Recreation and is part of the Harbor Herons Sanctuary.

Shooters Island is located approximately 1.5 miles north of the Reference Channel within the Kill van Kull. This uninhabited island consists of bedrock and dredge spoils. The island is a mixture of wooded and salt marsh habitats. The wooded areas are dominated by black locust (*Robinia pseudoacacia*) and tree-of-heaven. The salt marshes are dominated by smooth cordgrass and common reed.

Pralls and Shooters Islands provide critical nesting areas for colonial wading birds. Wading birds observed on these islands include cattle egrets (*Bubulcus ibis*), glossy ibis (*Plegadis falcinellus*), and black-crowned night herons (*Nycticorax nycticorax*)[2]. Other avian species observed on these islands include: great blue (*Ardea herodias*) and little blue herons (*Egretta caerulea*); great egrets (*Ardea alba*), cattle egrets

[1] http://training.fws.gov/library/pubs5/necas/web_link/19_harbor%20herons.htm
[2] NYS DOS Division of Coastal Resources. 1989. Designated Habitat: Pralls Island.

(*Bubulcus ibis*), and snowy egrets (*Egretta thula*); yellow-crowned (*N. violacea*) and black-crowned night herons; herring gulls (*Larus argentatus*) and great black-backed gulls (*L. marinus*). Water fowl such as American black duck (*Anas rubripes*), gadwall (*A. strepera*), mallard (*A. platyrhynchos*), and Canada geese (*Branta canadensis*), and American woodcocks (*Scolopax minor*) are also common on these islands. Many of these species nest on the island and then forage in nearby marshes, such as those bordering Old Place Creek, or they use the area as stopovers on spring and fall migrations.[3]

2.0 Methodology

As part of this EA, information was gathered from federal, state, and local agencies and was supplemented by a literature review and an on-site field investigation. The field investigation was designed to catalog the Reference Channel's flora and fauna. A brief description of the methods used follows.

2.1 Federal and State Agencies and Literature Review

The NYSDEC was contacted on October 3, 2006, to obtain information concerning known occurrences of ETR species located on, or within the vicinity of, the Reference Channel. The NYSDEC responded in a letter dated October 27, 2006, indicating that the state-endangered eastern mud turtle (*Kinosternon subrubrum*) and peregrine falcon (*Falco peregrinus*), and the state-threatened least bittern (*Ixobrychus exilis*), pied-billed grebe (*Podilymbus podiceps*), and persimmon (*Diospyros virginiana*) have been documented in the vicinity of the Reference Channel. A copy of this letter is included in Appendix A, "Correspondence." However, due to the sensitivity of some of the information provided within this letter, pages describing the locations of species will be omitted. TCC presents a brief review of the habitat requirements of these species in section 2.2, "Endangered and Threatened Species".

TCC also reviewed endangered and threatened species data provided through the New Jersey Department of Environmental Protection's (NJDEP) Landscape Project to determine if suitable habitat for any New Jersey State listed species is located in vicinity of the project area. The Landscape Project maps areas of critical habitat for imperiled species in New Jersey. According to the data, within New Jersey there is no suitable habitat for any endangered or threatened species mapped within ¼ mile of Reference Channel. However, black-crowned night heron, yellow-crowned night heron, and colonial bird foraging habitat is located within a ½ mile of the Reference Channel. Black-crowned and yellow-crowned night herons are listed as threatened species in New Jersey.

[3] http://training.fws.gov/library/pubs5/necas/web_link/19_harbor%20herons.htm

To determine if any federally-listed species occur at the Reference Channel, TCC reviewed the "Federally Listed Endangered and Threatened Species and Candidate Species in New York (By County)" as provided on the USFWS's New York Field Office website[4]. This list identifies federally-listed species by the counties in which they occur. According to this document, the federally-endangered shortnose sturgeon (*Acipenser brevirostrum*) may occur in Richmond County, New York. In addition to identifying federally-listed species which may occur in New York State, TCC also reviewed the list of federally-listed species located in Union County, New Jersey. Union County is adjacent to the western edge of the Arthur Kill, which is located immediately west of the Reference Channel. Based on the "Comprehensive List of Endangered and Threatened Species" as provided on the USFWS's New Jersey Field Office website[5], the federally-threatened bog turtle (*Clemmys muhlenbergii*) and the federally-endangered Indiana bat (*Myotis soldalis*) are known to occur in Union County. However, bog turtles are known to only occur in four municipalities in Union County: Berkeley Heights Township, Mountainside Borough, Scotch Plains Township, and Summit City. The Reference Channel is located near the City of Elizabeth municipality, which does not border any of the abovementioned municipalities. Suitable bog turtle habitat was not identified in the Reference Channel Area. Therefore, further consideration of this species is not necessary. Indiana bats may occur in any municipality in Union County; therefore, they may occur in the vicinity of the Reference Channel. However, suitable habitat was not found at the Reference Channel.

2.2 Endangered and Threatened Species

Shortnose Sturgeon

Shortnose sturgeon are 36-38 inches long and weigh approximately 8 pounds. They are anadramous and depending on their sex, spawn every other year or every third year. Shortnose sturgeon inhabit rivers and estuaries. They prefer the marine, estuarine, and riverine habitat of large river systems[6] and deep pools with soft substrates and vegetated bottoms[7]. Spawning occurs over rubble substrate with some gravel and large rocks.[8] According to the New York Natural Heritage Program (NYNHP), shortnose sturgeon are frequently associated with saltwater tidal creeks and tidal rivers and could be present in either the Arthur Kill or the mouth of Old Place Creek.

---

[4] http://www.fws.gov/northeast/nyfo/es/section7.htm
[5] http://www.fws.gov/northeast/njfieldoffice/Endangered/consultation.htm
[6] National Oceanic and Atmospheric Adminstration. Shortnose Sturgeon (*Acipenser brevirostrum*). Available from: http://www.nmfs.noaa.gov/pr/species/fish/shortnosesturgeon.htm. Accessed October 4th, 2006.
[7] Seibel, D. 1991. Habitat Selection, Movement, and Response to Illumination of Shortnose Sturgeon in the Connecticut River. M.A. Thesis, University of Massachusetts, Amherst.
[8] New York Natural Heritage Program. 2006. Online Conservation Guide for *Acipenser brevirostrum.* Available from: http://www.acris.nynhp.org/guide.php?id=7168. Accessed October 4th, 2006.

Peregrine Falcon

Peregrine falcons are crow-sized, slate-grey above and pale below, with fine dark bars and spots on their underparts.[9] They usually nest on rock cliffs and ledges; however, they will also nest on man-made structures such as bridges and tall buildings.[10] Ideal locations include undisturbed areas with a wide view, near water, and close to plentiful prey.[11] Nearby bridges provide suitable habitat for this species.

Least Bittern

Least bitterns range in size from 11-14.5 inches in length and weigh approximately 3 ounces. Their crown, back and tail are greenish black and their neck, sides, and underparts are brown and white.[12] They commonly nest in tall emergent vegetation, such as brackish tidal marshes. They prefer stands of cattails (*Typha* spp.) or bulrush (*Scirpus* spp.) with bur-reed (*Sparganium* spp.), sedges (*Carex* spp.), or common reed.[13]

Eastern mud turtle

"Eastern mud turtles are semi-aquatic and are commonly found in fresh or brackish water, including marshes, small ponds, wet ditches and fields, and offshore islands".[14] Primary habitat includes soft-bottomed, slow moving water. In New York, only five populations remain.[15]

Pied-billed Grebe

Pied-billed grebes are 12-15 inches in length and weigh 0.5-1.3 pounds. They have a brown throat, horn-colored bill, and brown plumage which is darker on the crown and back. Alternate coloration includes a horn-colored bill with a black ring and a white throat. Juveniles have black and white striping on their heads. Pied-billed grebes are found in fresh to moderately brackish water. Primary habitat typically includes dense stands of emergent vegetation or low-lying aquatic vegetation. Open

[9] New York Natural Heritage Program. 2006. Online Conservation Guide for *Falco peregrinus*. Available from: http://www.acris.nynhp.org/guide.php?id=6824. Accessed October 27th, 2006.
[10] Ibid
[11] Ibid
[12] Gibbs, J. P., F. A. Reid, and S. M. Melvin. 1992. Least Bittern. *In* The Birds of North America, No. 17 (A. Poole, P. Stettenheim, and F. Gill, Eds.). Philadelphia: The Academy of Natural Sciences; Washington, DC: The American Ornithologists' Union.
[13] New York Natural Heritage Program. 2006. Online Conservation Guide for *Ixobrychus exilis*. Available from: http://www.acris.nynhp.org/guide.php?id=6751. Accessed October 27th, 2006.
[14] http://www.dec.state.ny.us/website/dfwmr/wildlife/endspec/mutufs.html
[15] Ibid

water is usually found near nesting habitat. Pied-billed grebes may nest in heavily populated areas as along as nesting-habitat requirements are met.[16]

Indiana Bat

Indiana bat habitat is composed of both hibernacula and summer roosting areas. Hibernacula typically are located in abandoned mines or caves. Summer roosting habitat is characterized by wooded areas with trees that have a southern exposure, are ≥ 5 inches in diameter, and that exhibit specific physical characteristics (e.g., exfoliating bark, crevices, dead limbs, snags) that provide refuge for bats during the day for both resting and maternity purposes.[17]

Persimmon

Persimmon is a single or multi-trunked tree that grows to heights of approximately 25 feet. Persimmon leaves are alternate, simple, ovate, and up to seven inches long and four inches wide. In the vicinity of the Reference Site, Persimmon is typically associated with black cherry (*Prunus serotina*), tree-of-heaven, sassafras (*Sassfras albidum*), poison ivy (*Toxicodendron radicans*), sumac (*Rhus typhina*), goldenrod (*Solidago* sp.), and tall buttercup (*Ranunculus acris*).[18]

2.3 Field Investigation

TCC biologists conducted ecological field investigations of the Reference Channel on September 26 and 27, 2006. During the field investigations, plant and animal species were inventoried to characterize existing populations, habitats, and communities. The potential for rare plants and animals, as well as general observations regarding overall plant community composition and structure, wetlands and watercourses, the degree of site disturbance, and other site characteristics were noted and recorded during the site inspection.

In addition to investigating the Reference Channel, Old Place Creek, the immediate surrounding area (i.e., Reference Channel Area), and adjacent marshes located to the south were observed to document the vegetative and wildlife species which occur in the project area.

A literature review was also conducted to provide supporting documentation for use in the EA. Information gathered included topographic maps, soil maps, aerial

16 Muller, M.J. and R.W. Stoner. 1999. Pied-billed Grebe (Podilymbus podiceps). *In* The Birds of North America, No. 410 (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA.

17 Indiana Bat Project Review Fact Sheet. USFWS New York Field Office. August 2005.

18 Correspondence with NYSDEC. October 27, 2006.

photographs, pertinent plant and animal species information (i.e., known species in the area, characteristics required for identification, etc.), and historical information.

2.3.1 Ecological Communities

Community (habitat) types described herein generally follow those utilized by the New York Natural Heritage Program as described in Ecological Communities of New York.[19] Vegetation identified within the Reference Channel is described in the following sections in terms of strata (layers – "overstory;" "understory;" and "groundcover").

Overstory vegetation represents the canopy tree species greater than six inches in diameter. Understory/shrub vegetation is comprised of woody tree species between two and six inches in diameter, and saplings and shrubs less than two inches in diameter and three to 12 feet in height. Ground layer vegetation consists of both woody and herbaceous vegetation less than three feet in height.

During the field investigations, the distributions of various communities were noted along with the vegetative species composition, plant structure (i.e., layers), and other vegetative characteristics. This information was used to provide a written description of each community type as presented below. Additionally, aerial photographic interpretation was used to assist in preparing a depiction of the ecological communities of the Reference Channel.

Plants species were field-identified to genus and species, when possible. Unidentified plant species were collected for later identification. Upon the compilation of the species list, plants identified in the Reference Site were reviewed to determine if any federally- or state-listed plants were documented. Finally, species were categorized by location and general habitat characteristics were documented.

2.3.2 Wildlife

On-site field surveys of wildlife species were conducted for reptiles, amphibians, mammals, fish, bird, and crustacean species. The following discussion outlines the methods used.

[19] Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero (editors). 2002. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. (Draft for review). New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.136 pgs.

Reptiles and Amphibians

Methods used to conduct the reptiles and amphibian surveys include turning debris, driftwood, and large matted vegetation to reveal herpetological species underneath.

Mammals

Methods to detect mammals were based on visual encounters, vocalization, tracks, scat, remains, or other signs. The Reference Channel was traversed to ensure that each vegetative community type was surveyed.

Birds

Bird species were identified throughout the Reference Channel and Reference Channel Area either visually, by song, and/or by nest evaluations. Old Place Creek and salt marshes located south of the Reference Channel Area were observed to identify bird species within a ¼ mile of the Reference Channel. Associations between bird species and their corresponding preferred habitat types were noted during the investigation.

Fish and Aquatic Invertebrates

Fish and crustacean species were identified by trapping and visual observations in the Reference Channel. For two days, minnow traps were placed in the Reference Channel at high tide and removed before low tide.

3.0 Existing physical conditions

The Reference Channel is located in the north-western portion of the Staten Island, New York. It is surrounded by a salt marsh and a successional southern hardwood forest. The following section describes the Reference Channel Area's topography, hydrology including wetland mapping, and vegetative communities.

3.1 Topography

According to the *USGS Elizabeth NY-NJ (1967, photorevised 1981) Topographic Quadrangle map*, the Reference Channel Area is flat and is less than five feet above mean sea level (msl). Figures 1.0-1 provides an illustration of the overall topography in the Reference Channel Area.

3.2 Hydrology and Wetland Mapping

3.2.1 Watercourses

Three watercourses are mapped within the immediate vicinity of the Reference Channel. The main channel of Old Place Creek is mapped along the southern portion of the Reference Channel; the Arthur Kill is located to the west of the Reference Channel, and an unnamed watercourse is mapped approximately 2,220 feet northeast of the Reference Channel (see Figure 3.2-1).

Old Place Creek is a tidal creek that originates off-site to the east and flows west, adjacent to the Reference Channel, before discharging into the Arthur Kill. The main channel of Old Place Creek is 130 feet wide, while the Reference Channel is 50 feet wide. The substrate consists of very soft, organic muck. The tidal portions of Old Place Creek are classified by the NYSDEC as "SD", and the freshwater portions are class "C". The SD classification is for saline waters that are suitable for fish survival, and the "C" classification is for waters suitable for fish propagation.

The Arthur Kill is an approximately 10 mile long tidal river/strait that flows north to south between New Jersey and Staten Island. The Arthur Kill connects Newark Bay and Raritan Bay. The Arthur Kill is greater than 30 feet deep and 870 feet wide at its junction with Old Place Creek. According to the NYSDEC, the Arthur Kill is classified as a SD watercourse.

An unnamed tributary of the Arthur Kill is located northeast of the Reference Channel. The watercourse is approximately 50 feet wide. This watercourse is mapped classified by the NYSDEC as a SD watercourse.

3.2.2 Wetland Mapping

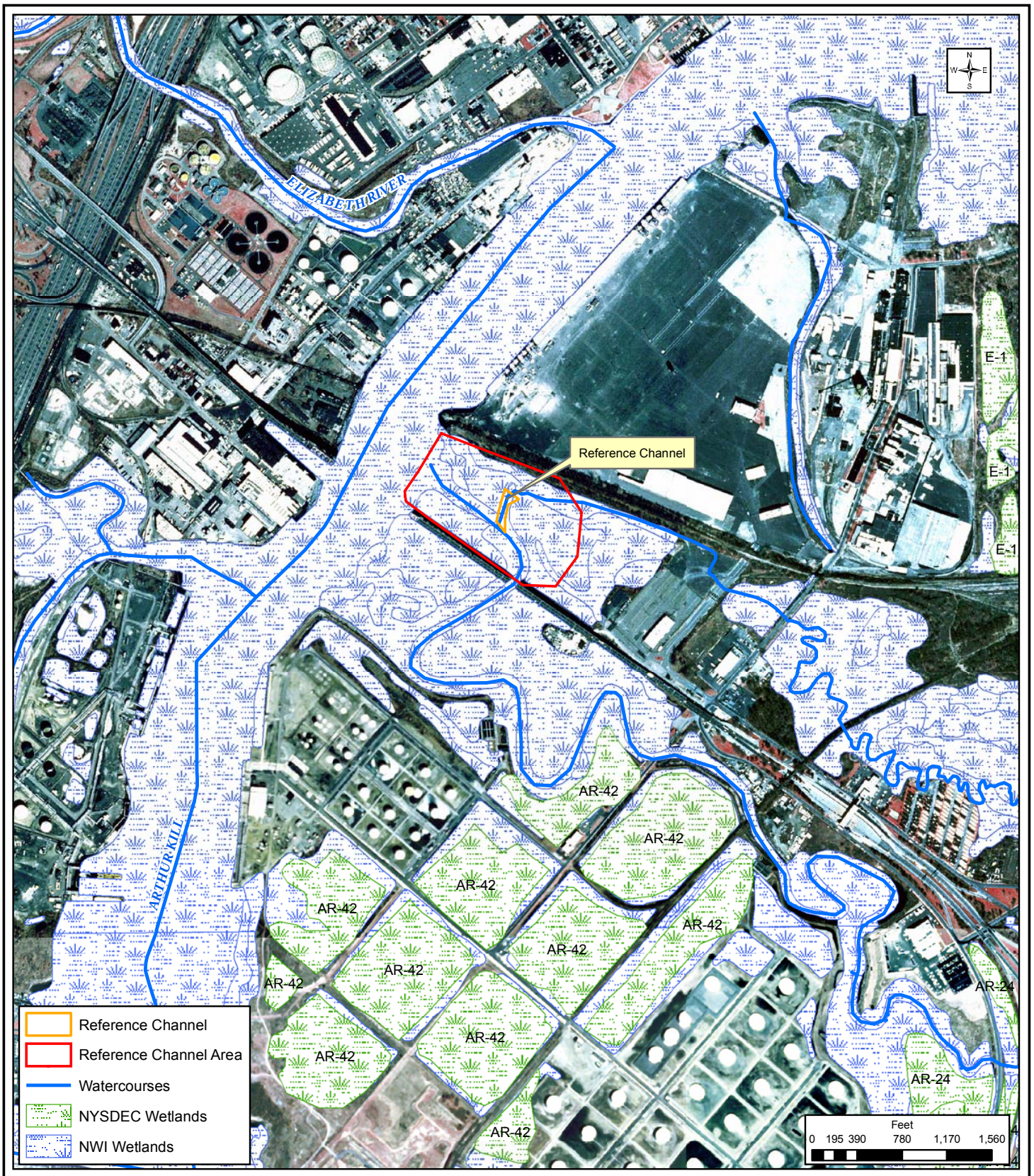
NWI Mapping

According to the National Wetland Inventory (NWI) digital data provided by the USFWS there are several wetlands mapped within the immediate vicinity of the Reference Channel. The Reference Channel (i.e., tributary of Old Place Creek) and the Arthur Kill are mapped as estuarine, subtidal, unconsolidated bottom, subtidal wetlands [E1UBL]. Wetlands located immediately east and west of the Reference Channel are mapped as estuarine, intertidal, emergent, persistent, irregularly flooded wetlands [E2EM1P]. A palustrine, forested, broad-leaved deciduous, seasonal-tidal [PFO1R] wetland is located directly north of the Reference Channel, and an estuarine, intertidal, emergent, mesohaline, irregularly flooded [E2EM5P] wetland and [E2EM1P] wetland are located south of the Reference Channel. Other NWI wetlands within a ¼ mile of the Reference Channel include three estuarine,

intertidal, emergent, persistent, regularly exposed [E2EM1N] wetlands and a large estuarine, intertidal, emergent, persistent, irregularly flooded, partially drained/ditched [E2EM1Pd] wetland.

NYSDEC Wetland Mapping

According to a Geographic Information System (GIS) dataset provided by the NYSDEC, no NYSDEC wetlands are located in the immediate vicinity of the Reference Channel. The closest NYSDEC wetland is Wetland AR-42, which is mapped approximately 1,500 feet to the southeast of the Reference Channel. NYSDEC Wetland AR-42 is classified by the NYSDEC as a class I wetland. NYSDEC Class I wetlands provide the greatest wetland benefits and hold the highest regulatory rank. NYSDEC Wetland AR-42 is regulated as a Class I wetland because it is resident habitat of an endangered or threatened animal species and it supports an animal species in abundance or diversity unusual for the state or for the major region of the state in which it is found. Figure 3.2-2, "Wetlands and Watercourses Map", provides an illustration of the mapped wetlands and watercourses on and adjacent to the Reference Channel.



THE Chazen COMPANIES
Engineers/Surveyors
Planners
Environmental Scientists
GIS Consultants

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:
21 Fox Street
Poughkeepsie, NY 12601
Phone: (845) 454-3980

Orange County Office:
356 Meadow Avenue
Newburgh, NY 12550
Phone: (845) 567-1133

Capital District Office:
547 River Street
Troy, NY 12180
Phone: (518) 273-0055

North Country Office:
110 Glen Street
Glens Falls, NY 12801
Phone: (518) 812-0513

This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of this map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

LCP Chemicals Reference Channel

Figure 3.2-1:
Wetlands and Watercourses Map

Staten Island
Richmond County, New York

Created by:	J.F.T.
Date:	10/31/2006
Scale:	1:13,262
Project #:	70620.00

4.0 Results

The Reference Channel consists primarily of a tidal channel surrounded by salt marshes and a successional hardwood forest to the north. The following sections provide descriptions of the types of ecological communities located within the Reference Channel Area. Section 4.2 describes the Reference Channel's fauna and habitat characteristics.

4.1 Ecological Communities

Within the Reference Channel Area, TCC staff identified 17 plant species among three ecological communities as described in Ecological Communities of New York[20]. The Reference Channel consists of a tidal watercourse (i.e., channel of Old Place Creek) flowing through high salt marsh wetlands. A successional hardwood forest is located in the northern portion of the Reference Channel Area. Figure 4.1-1, "Ecological Communities Map" illustrates the approximate location of each of the community type in the Reference Channel Area. Representative photographs of each community type are included as Appendix B "Site Photographs".

During this EA, no federal and/or state endangered or threatened plant species were observed within the boundaries of the Reference Channel Area. The following presents a general description of the ecological communities observed within the Reference Channel Area.

Tidal Creek – This community is located throughout the central portion of the Reference Channel Area. The Reference Channel and Old Place Creek flows east-west through salt marsh habitat before emptying into the Arthur Kill. Vegetation within the subtidal (i.e., permanently flooded) and intertidal (i.e., banks and terraces) portions of the creek is sparse. Vegetation within the intertidal zone consists of common glasswort (*Salicornia europaea*), marsh elder (*Iva frutescens*), and smooth cordgrass (*Spartina alternifolia*). Several bird species including yellow-crowned night herons (*Nyctanassa violacea*), great blue herons (*Ardea herodias*), and cattle egrets (*Bubulcus ibis*) were observed along the banks of Old Place Creek. Mummichogs (*Fundulus* spp.), fiddler crabs (*Uca pugnax*), and jellyfish were abundant in this community. Photo #1 in Appendix B, "Site Photographs" illustrates this community type.

[20] Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero (editors). 2002. Ecological Communities of New York State. Second Edition. A revised and expanded edition of Carol Reschke's Ecological Communities of New York State. (Draft for review). New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.136 pgs.

Table 4.1.1 List of Vegetation observed within the Tidal Creek Community

Scientific Name	Common Name
Herbs	
Iva frutescens	Marsh elder
Salicornia europaea	Common glasswort
Grasses	
Phragmites australis	Common reed
Spartina alternifolia	Smooth cordgrass
Tiner, R. Jr. 1987. A Field Guide to Coastal Wetland Plants of the Northeastern United States. Cushing-Malloy.	

High Salt Marsh – This community type is located throughout the Reference Channel Area and it consists of former Estuarine Dredge spoils which have developed into high salt marsh wetlands. This community borders both sides of the Reference Channel. The western shore of the Reference Channel was dominated by spike grass (*Distichlis spicata*) and small patches of salt meadow grass (*Spartina patens*), which was scattered throughout the spike grass. The vegetation was approximately six to twelve inches high. Vegetation on the east shore of the Reference Channel was similar in species composition to the western shore; however, a large stand of common reed was located in the eastern portion of the Reference Channel Area. Other species observed within this community include seaside goldenrod, marsh elder, and tree groundsel (*Baccharis halimifolia*). Herring gulls (*Larus argentatus*), great egrets (*Ardea alba*), and snowy egrets were observed flying over this community. Raccoon (*Procyon lotor*) tracks were observed on the western shore of the Reference Channel. Photos #3 and 4 illustrate this community type.

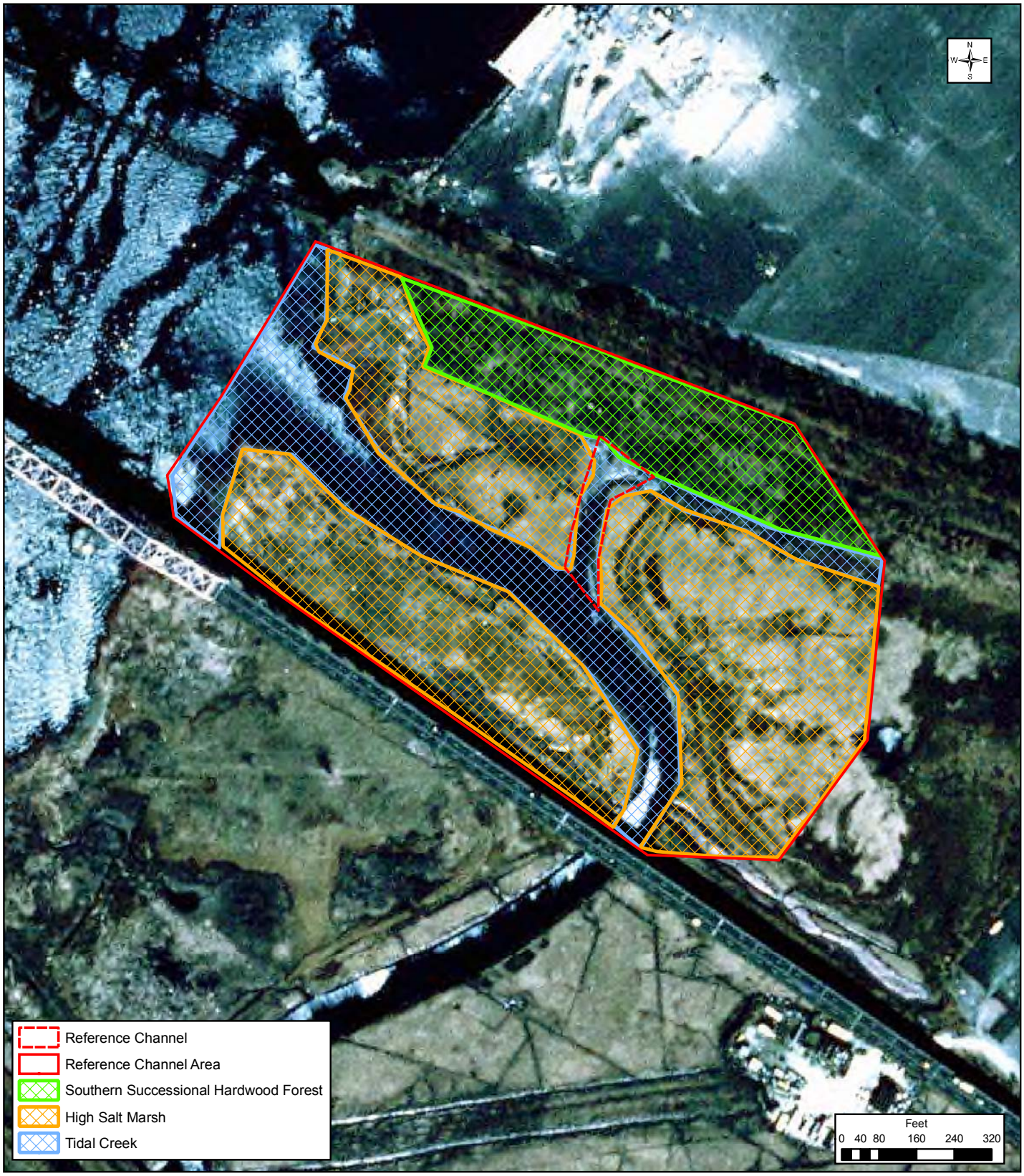
Table 4.1.2 List of Vegetation observed within the High Salt Marsh Community

Scientific Name	Common Name
Shrubs	
Baccharis halimifolia	Tree groundsel
Herbs	
Atriplex patula	Marsh orach
Iva frutescens	Marsh elder
Salicornia europaea	Common glasswort
Solidago sempervirens	Seaside goldenrod
Grasses	
Distichlis spicata	Spike grass
Phragmites australis	Common reed
Spartina alternifolia	Smooth cordgrass
Spartina patens	Salt meadow grass
Tiner, R. Jr. 1987. A Field Guide to Coastal Wetland Plants of the Northeastern United States. Cushing-Malloy.	

Southern successional hardwood forest – This community is found along the northern boundary of the Reference Channel Area. The overstory vegetation is comprised of a monotypic stand of 12-20 inch diameter southern catalpa (*Catalpa bignonioides*). The understory is comprised of 6-12 inch diameter sumac (*Rhus* spp.), black willow (*Salix nigra*), and red mulberry (*Morus rubra*). Several bird species including a belted kingfisher (*Ceryle alcyon*), red-tailed hawk (*Buteo jamaicensis*), and gray catbird (*Dumetella carolinensis*) were observed in this community. An osprey was observed on several occasions flying from the successional hardwood forest located along the northern boundary of the Reference Channel Area. Photos #2 illustrates this community type.

Table 4.1.3 List of Vegetation observed within the Southern Successional Hardwood Forest Community

Scientific Name	**Common Name**
Trees	
Ailanthus altissima	Tree-of-heaven
Catalpa bignonioides	Southern catalpa
Populus deltoides	Eastern cottonwood
Shrubs	
Baccharis halimifolia	Tree groundsel
Morus rubra	Red mulberry
Rhus spp.	Sumac
Salix nigra	Black willow
Herbs	
Iva frutescens	Marsh elder
Solidago sempervirens	Seaside goldenrod
Vines	
Partenocissus quinquefolia	Virginia creeper
Toxicodendron radicans	Poison ivy
Grasses	
Phragmites australis	Common reed
Spartina alternifolia	Smooth cordgrass
Tiner, R. Jr. 1987. A Field Guide to Coastal Wetland Plants of the Northeastern United States. Cushing-Malloy. USDA, NRCS. 2006. The PLANTS Database (http://plants.usda.gov, 3 October 2006). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.	



THE Chazen COMPANIES
Engineers/Surveyors
Planners
Environmental Scientists
GIS Consultants

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:	Orange County Office:	Capital District Office:	North Country Office:
21 Fox Street	356 Meadow Avenue	547 River Street	110 Glen Street
Poughkeepsie, NY 12601	Newburgh, NY 12550	Troy, NY 12180	Glens Falls, NY 12801
Phone: (845) 454-3980	Phone: (845) 567-1133	Phone: (518) 273-0055	Phone: (518) 812-0513

This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of this map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

LCP Chemicals Reference Channel

Figure 4.1-1:
Ecological Communities Map

Staten Island
Richmond County, New York

Created by:	J.F.T.
Date:	10/03/2006
Scale:	1:3,309
Project #:	70620.00

4.2 Fauna

The fauna of the Reference Channel Area was also cataloged during the on-site investigation. In all, 29 species of wildlife were observed during the site visits.

4.2.1 Mammals

One mammalian species was recognized by its sign within the Reference Channel Area (Table 4.2.1). Raccoon (*Procyon lotor*) tracks were observed in a small depression on the western shore of the Reference Channel. No other mammals were observed within the Reference Channel Area.

Table 4.2.1 Mammal Species Observed

Scientific Name	Common Name	Habitat
Procyon lotor	Raccoon	HSM
Ecological Community: **HSM**- High Salt Marsh		

4.2.2 Reptiles and Amphibians

No reptile or amphibian species were observed within the Reference Channel Area. This may partially be due to the time of year the field work was conducted.

4.2.3 Fish and Invertebrates

Three species of fish, five species of crustaceans, one species of mussel, one species of gastropod, and one species of jellyfish were observed during the field investigation (Table 4.2.3). No endangered, threatened, or special concern aquatic species were observed within the Reference Channel Area.

Table 4.2.3 Fish and Invertebrate Species Observed

Scientific Name	Common Name	Habitat
Fish		
Fundulus diaphanous	Banded killifish	TC
Fundulus heteroclitus	Mummichog	TC
Menidia menidia	Atlantic silverside	TC
Crustaceans		
Balanus spp.	Barnacle	TC
Callinectes sapidus	Blue crab	TC
Ecological Community: **TC**- Tidal Creek		

Table 4.2.3 Fish and Invertebrate Species Observed (cont.)

Scientific Name	Common Name	Habitat
Crustaceans (cont.)		
Neopanopeus sayi	Black-fingered mud crab	TC
Palaemontetes spp	Grass shrimp	TC
Uca minax	Red-jointed fiddler crab	TC
Uca pugnax	Atlantic Marsh fiddler crab	TC
Bivalvia		
Geukensia demissa	Atlantic ribbed mussel	TC
Gastropoda		
Melampus bidentatus	Marsh snails	TC
Ecological Community: **TC**- Tidal Creek		

4.2.4 Birds

Seventeen species of birds were observed on or within the vicinity of the Reference Channel (Table 4.2.4). Associations between bird species and their corresponding preferred habitat types were noted during the investigation. Most of the bird species observed are common in New Jersey/New York. However, two ETR bird species were observed during the field investigation. Two yellow-crowned night herons and an osprey were observed within the Reference Channel Area.

Table 4.2.4 Bird Species Observed

Scientific Name	Common Name	Habitat
Birds		
Anas platyrhynchos	Mallard	TC
Ardea herodias	Great blue heron	HSM
Branta canadensis	Canada goose	HSM
Buteo jamaicensis	Red-tailed hawk	SSHF
Casmerodius albus	Great egret	HSM
Ceryle alcyon	Belted kingfisher	HSM, SSHF
Columba livia	Rock dove*	SSHF
Dumetella carolinensis	Gray catbird	SSHF
Egretta thula	Snowy egret	HSM
Larus argentatus	Herring gull*	HSM, TC
Melospiza melodia	Song sparrow	SSHF
Nycticorax violacea	Yellow-crowned night heron	TC
Pandion haliaetus	Osprey*	HSM, SSHF, TC
Phalacrocorax auritus	Double-crested cormorant	HSM
Sturnella magna	Eastern meadowlark	HSM
Sturnus vulgaris	European starling	SSHF
Zenaida macroura	Mourning dove*	SSHF
Ecological Communities: **HSM**- High Salt Marsh **SSHF**- Southern Successional Hardwood Forest **TC**- Tidal Creek * denotes a flyover		

4.2.5 Endangered, Threatened, and Rare (ETR) Wildlife Species

During this EA, two ETR species were observed in the Reference Channel Area. An osprey (*Pandion haliaetus*), classified as a Species of Concern in New York State and as a threatened species (breeding populations only) in New Jersey, was observed flying and hunting over the Reference Channel Area. Two yellow-crowned night herons (*Nyctanassa violacea*), which are classified by the NJDEP as a threatened species, were observed foraging along Old Place Creek. No significant ecological communities were identified within the Reference Channel Area.

Although no other ETR species were observed during site visits at the Reference Channel Area, primary habitat for several ETR species was identified during this EA. Shortnose sturgeons are associated with tidal creeks, which are less than 6 feet deep at low tide, and tidal rivers that are greater than six feet deep at low tide.[21] These habitat types were found within the Reference Channel Area and surrounding area (i.e, Arthur Kill and Old Place Creek). The soft mucky substrate and slow moving water in Old Place Creek provides suitable habitat for Eastern mud turtles. Suitable habitat for the peregrine falcon includes Goethals Bridge and the Arthur Kill lift bridge. Suitable habitat for least bitterns and pied-billed grebes is located in the eastern portion of the Reference Channel Area in a large monoculture of common reed. The southern successional hardwood forest located in the northern portion of the Reference Channel Area may provide suitable habitat for persimmon, as well as nest sites for many tree dwelling birds. Several species commonly associated with persimmon were located within this section of forest; however, no persimmon was actually observed. Sumac, tree-of-heaven, poison ivy, and goldenrods, all common associates of persimmon, were observed within the southern successional hardwood forest.

5.0 LCP Chemical Site and Reference Channel Comparison

5.1 Site Features

The LCP Site is a 26-acre abandoned chlor-alkali chemical plant. A man-made ditch, South Branch Creek, with associated salt marsh wetlands is located in the eastern portion of the LCP Site, and a capped brine sludge lagoon is located in the central portion of the Site. South Branch Creek (SBC) is approximately 15 to 30 feet wide, several feet deep, and flows east, connecting to the Arthur Kill. The Reference Channel is located approximately 1.8 miles to the north of SBC and is comprised of a tributary/channel of Old Place Creek, which flows into the Arthur Kill. Salt marshes and a successional forest surround the Reference Channel. The Reference Channel is approximately 50 feet wide and several feet deep. It flows

[21] New York Natural Heritage Program. 2006. Online Conservation Guide for *Acipenser brevirostrum*. Available from: http://www.acris.nynhp.org/guide.php?id=7168. Accessed October 4th, 2006.

south into Old Place Creek, which flows to the west, eventually connecting to the Arthur Kill.

5.2 Surrounding Landscape

South Branch Creek and the Reference Channel are both located in highly industrialized areas along the Arthur Kill. South Branch Creek is bordered by bulk petroleum storage tanks and terminal operations immediately to the north and south. An urban vacant lot with dilapidated buildings is located immediate west of SBC and a capped former brine sludge lagoon is located to the southwest. South Branch Creek flows east into the Arthur Kill. The Reference Channel is bordered to the north by a successional hardwood forest. The Howland Hook Marine Terminal, a container/cargo facility owned by the Port Authority of New York and New Jersey is located immediately north of the hardwood forest. Salt marshes border the eastern and western portions of the Reference Channel, and Old Place Creek is immediately south of the Channel. Old Place Creek flows west into the Arthur Kill.

5.3 Physical Parameters

A comparison of the physical parameters of the surface waters at SBC and the Reference Channel is provided below (Tables 5.3-1 and 5.3-2). The average salinity at the Reference Channel was 1.87% and it was 1.46% at SBC. Temperature and dissolved oxygen were slightly higher at SBC and pH was slightly lower. Overall, the physical nature of the surface waters at SBC and Reference Channel were quite similar.

Table 5.3-1 South Branch Creek Parameters

Physical Parameters				
Field ID	**Salinity (%)**	**Dissolved Oxygen (mg/L)**	**Temperature (°C)**	**pH (SU)**
SW-A	0.36	12.85	21.8	8.29
SW-B	1.22	14.23	21.8	8.47
SW-C	1.75	14.42	21.3	8.51
SW-D	1.80	15.33	21.3	8.45
SW-E	1.87	15.68	21.0	8.48
SW-F	1.81	15.99	21.5	8.32
SW-G	1.42	10.95	22.5	8.30
Average	1.46	14.21	21.6	8.40
Ecological Parameters				
Ecological Communities	Urban Vacant Lot, Brackish Tidal Marsh, and Successional Old Field			
Dominant Vegetation	Smooth cordgrass and common reed			
Biota	*Fundulus heteroclitus, Uca pugnax, Geukensia demissa, Larus argentatus, and Egretta caerulea*			

Table 5.3-2 Reference Channel Parameters

Physical Parameters				
Field ID	**Salinity (%)**	**Dissolved Oxygen (mg/L)**	**Temperature (°C)**	**pH**
SW-W	1.86	10.14	21.2	8.84
SW-X	1.87	13.13	21.2	8.68
SW-Y	1.87	14.28	21.3	8.79
SW-Z	1.87	18.83	21.5	8.87
Average	1.87	14.10	21.3	8.80

Ecological Parameters	
Ecological Communities	Tidal creek, southern successional hardwood forest, high salt marsh
Dominant Vegetation	Smooth cordgrass, spike grass, salt meadow grass, and common reed
Biota	*Fundulus heteroclitus, Uca pugnax, Geukensia demissa* and *Larus argentatus*

5.4 Ecological Parameters

South Branch Creek and the Reference Channel have relatively similar ecological attributes. Both watercourses have a mucky substrate and ample mud flats. Several species such as mummichog, Atlantic marsh fiddler crabs, ribbed mussels, herring gulls, and snowy egrets were observed in the vicinity of both watercourses. Furthermore, the number species of fish, crustaceans, and wading birds appeared similar at both sites (Table 5.4-1). The increased number of bird species at the Reference Channel is most likely due to the extensive amount of suitable foraging habitat in the immediate surrounding area.

Table 5.4-1 Ecological Attributes of South Branch Creek and the Reference Channel

Parameter	LCP Site	Reference Site
Plant Species	11	17
Mammal Species	0	1
Reptile and Amphibian Species	2	0
Fish Species	3	3
Crustacean Species	8	5
Bird Species	4	16

While the physical and ecological characteristics of these watercourses sites are comparable, the ecological attributes surrounding SBC and the Reference Channel differ. South Branch Creek is surrounded by a vacant lot that contains several abandoned buildings and a successional old field (i.e., former brine sludge lagoon). This habitat configuration provides upland habitats in close proximity to South Branch Creek. Conversely, the Reference Channel is surrounded by extensive salt marshes and hardwood forest. Therefore, there are no developed uplands in the immediate vicinity of the Reference Channel.

6.0 Conclusions

The Reference Channel is a tidal channel surrounded by salt marshes and a successional southern hardwood forest. The Reference Channel flows into Old Place Creek, which eventually discharges into the Arthur Kill.

The wildlife species and ecological communities observed within the Reference Channel Area are common along the Arthur Kill corridor and in the surrounding marsh habitats. Mummichogs, blue crab, and Atlantic marsh fiddler crabs are common in many of the salt marshes along the Arthur Kill. Other species, such as ribbed mussels and grass shrimp are also common in the Arthur Kill corridor. Salt marshes are located adjacent to many of the nearby watercourses and estuarine dredge spoils and ditches are scattered throughout many of the salt marshes.

In regards to ETR species, two ETR species were observed within the immediate vicinity of the Reference Channel. An osprey was observed on several occasions flying over the Reference Channel and sitting atop an electrical pole. Ospreys are listed as a Species of Concern in New York and breeding populations are listed as threatened in New Jersey. Two yellow-crowned night herons were also observed foraging on mud flats along Old Place Creek, which is located immediately south of the Reference Channel. Yellow-crowned night herons are listed as a protected species in New York and they are listed as a threatened species in New Jersey.

Suitable habitat for other ETR species was observed within the Reference Channel Area however, no other ETR species were observed during the EA. The Arthur Kill and Old Place Creek provide suitable habitat for shortnose sturgeon. Suitable habitat for least bitterns and pied-billed grebes is located in the eastern portion of the Reference Channel Area, and habitat for peregrine falcons includes Goethals Bridge and the Arthur Kill lift bridge. Old Place Creek provides habitat for eastern mud turtles, and many of the species located in the successional forest in the northern portion of the project are associated with persimmon.

Overall, the Reference Channel and surrounding area provide relatively high-quality habitat for wildlife. The value of this habitat is greatly enhanced by its size and the adjacency of other vegetated habitats. As with any habitat area, the larger the size, the greater the number of species that can be found in that area. The Reference Channel Area is located within the Harbor Herons Bird Conservation Area. This conservation area supports the largest breeding bird population of colonial water birds in the northeastern United States.[22] Many of the birds use nearby islands such as Pralls Island and Shooters Island for nesting and then they

[22] The Trust for Public Land. 2006. Staten Island Wetlands Protected (NY). Accessed from: http://www.tpl.org/tier3_cd.cfm?content_item_id=11430&folder_id=630. Accessed: October 4th, 2006.

forage in close by tidal marshes such as salt marshes adjacent to Old Place Creek.[23] The Reference Channel is also located within the Atlantic coast migration corridor. Numerous migrating land and water birds use areas along the corridor as a stopover/overwintering sites. The Atlantic coast is regularly used by migrating birds and approximately 50 different kinds of landbirds travel this flyway.[24]

Despite the differences in the ecological parameters immediately surrounding the Reference Channel (salt marsh habitat) and South Branch Creek (upland vacant lot), the physical nature and ecological attributes of the tidal creeks at both locations was quite similar, except for size (i.e., Reference Channel was wider). Therefore, these data support the assumption that, despite the differences in the habitats surrounding these areas, the Reference Channel provides an appropriate means of comparison between South Branch Creek and the Reference Channel.

[23] http://training.fws.gov/library/pubs5/necas/web_link/19_harbor%20herons.htm

[24] Peterson, S.R. 1979. Atlantic Coast Route and Tributaries. Migration of Birds. Fish and Wildlife Service, Circular 16. pg. 70.

Appendix A: Correspondence

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Capital District Office
Phone: (518) 273-0055

Orange County Office
Phone: (845) 567-1133

21 Fox Street, Poughkeepsie, New York 12601
Phone: (845) 454-3980 Fax: (845) 454-4026
Email: poughkeepsie@chazencompanies.com
Web: www.chazencompanies.com

North Country Office
Phone: (518) 812-0513

October 3, 2006

Ms. Jean Pietrusiak
NYSDEC - Information Services
NY Natural Heritage Program
625 Broadway, 5th Floor
Albany, NY 12233-4754

Re: Freedom of Information Request, Threatened or Endangered Species
Site Located adjacent to Old Place Creek
South of Port Ivory, Richmond County, New York

Dear Ms. Pietrusiak:

The Chazen Companies are in the process of conducting a Phase II Remedial Investigation and Ecological Risk Assessment (ERA) of a 26-acre site in the City of Linden, Union County, New Jersey. As part of the remediation process, a reference stream within the vicinity of the site is being studied.

The reference stream is located along Old Place Creek, which is located south of Port Ivory, Richmond County, New York. Old Place Creek is located below the Goethals Bridge which connects New Jersey and Staten Island. Please find the enclosed USGS topographic maps (Arthur Kill and Elizabeth Quadrangle) illustrating the approximate location of the site and reference stream. The land use surrounding the site and reference stream is industrial. Brackish tidal marshes are located adjacent to the reference stream.

Please provide any information you have concerning known occurrences of endangered, threatened and/or special concern wildlife species as well as rare plant, animal, natural community occurrences, or other significant habitats either at the reference stream site or in the immediate surrounding area. Also, although the 26-acre site is located within New Jersey, we are requesting any information you may have for the portion of New York (i.e., Chelsea, New York) which is located east of the site.

If at all possible, please fax the requested information to me at (845) 567-1925. Please do not hesitate to contact me at (845) 567-1133 if you have any questions.

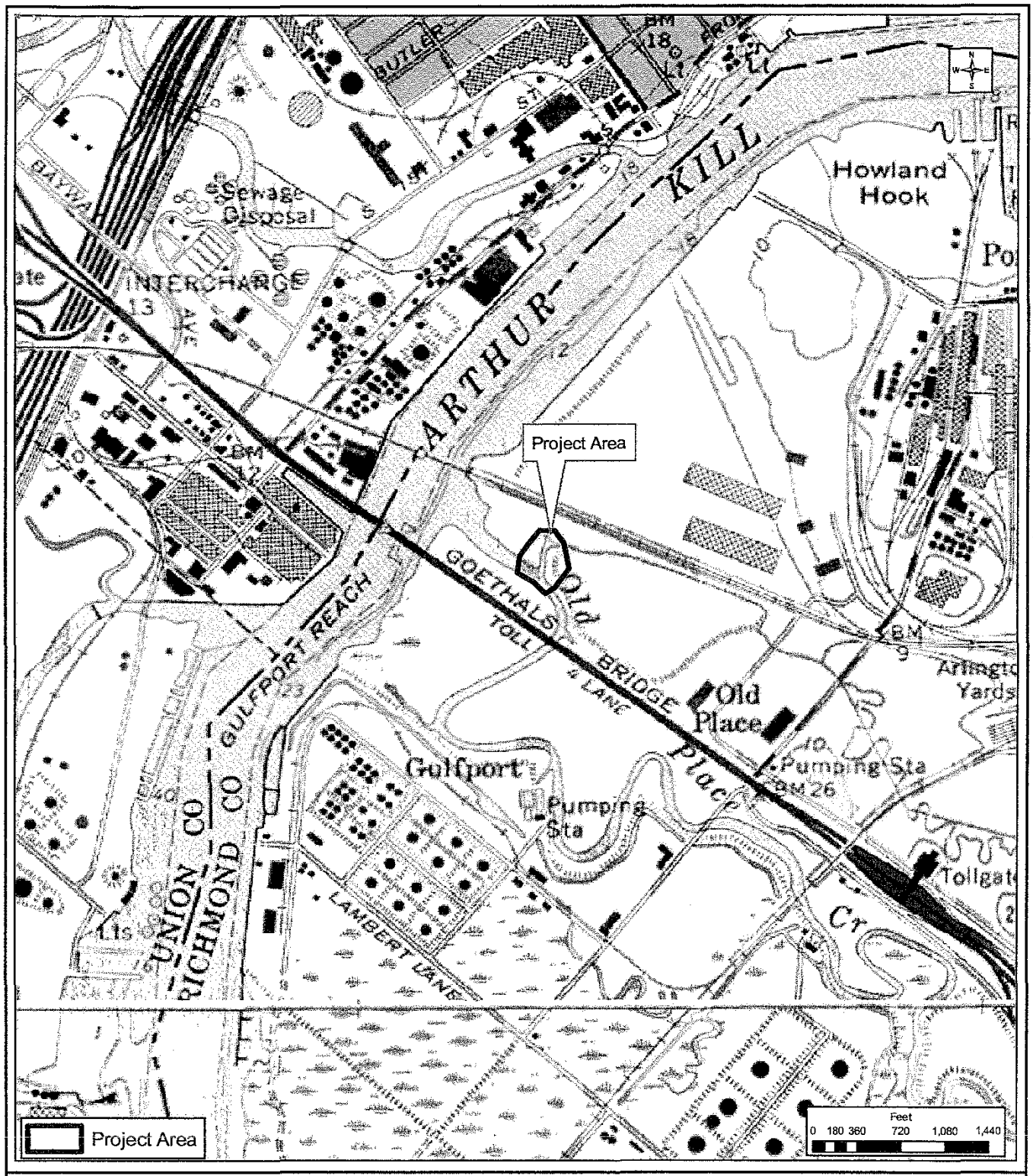
Thank you for your assistance.

Sincerely,

Jason Tourscher

Jason Tourscher
Wetland Scientist/Biologist

N:\7\70600-70699\70620.00-Brown and Caldwell\HA\Reference Stream\FOILS\DEC FOIL 10-3-06 (jft).doc



THE Chazen COMPANIES
Engineers/Surveyors
Planners
Environmental Scientists
GIS Consultants

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:	Orange County Office:	Capital District Office:	North Country Office:
21 Fox Street	356 Meadow Avenue	547 River Street	110 Glen Street
Poughkeepsie, NY 12601	Newburgh, NY 12550	Troy, NY 12180	Glens Falls, NY 12801
Phone: (845) 454-3980	Phone: (845) 567-1133	Phone: (518) 273-0055	Phone: (518) 812-0513

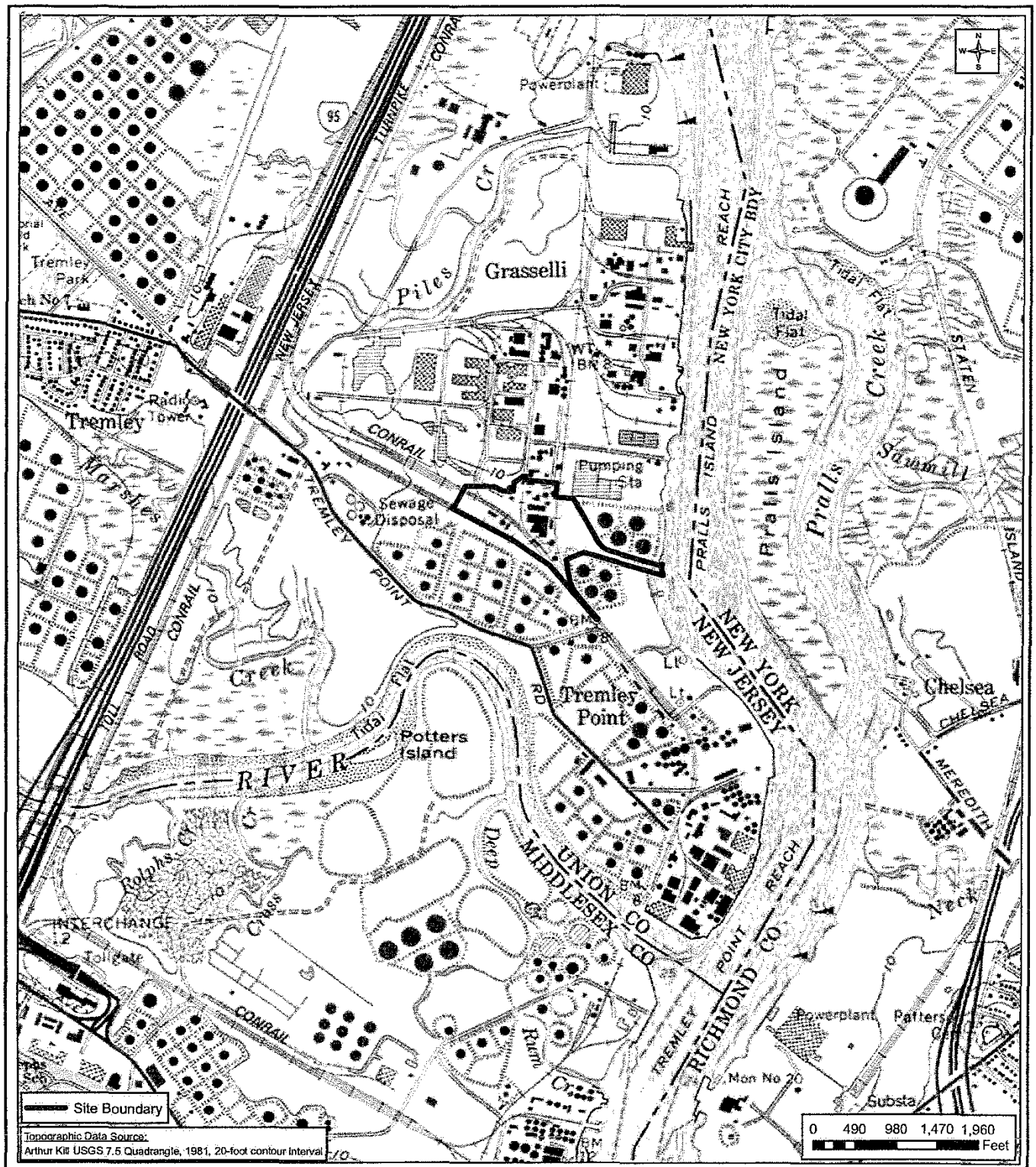
This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of this map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

LCP Chemicals Reference Stream Site

Figure 1:
Site Location Map

Richmond County, New York

Created by:	J.F.T.
Date:	10/03/2006
Scale:	1:12,343
Project #:	70620.00



THE Chazen COMPANIES
Engineers/Surveyors
Planners
Environmental Scientists
GIS Consultants

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Dutchess County Office:	Orange County Office:	Capital District Office:	North Country Office:
21 Fox Street	356 Meadow Avenue	547 River Street	110 Glen Street
Poughkeepsie, NY 12601	Newburgh, NY 12550	Troy, NY 12180	Glens Falls, NY 12801
Phone: (845) 454-3980	Phone: (845) 567-1133	Phone: (518) 273-0055	Phone: (518) 812-0513

This map is a product of The Chazen Companies. It should be used for reference purposes only. Reasonable efforts have been made to ensure the accuracy of the map. The Chazen Companies expressly disclaims any responsibilities or liabilities from the use of this map for any purpose other than its intended use.

LCP Chemicals

Figure 1.1-1
Site Location Map

City of Linden
Union County, New Jersey

Created by:	JFT
Date:	09/14/06
Scale:	1:17,987
Project #:	70621.00

NYS Department of Environmental Conservation
Office of Media Relations
625 Broadway, Albany, New York 12233-1016
(518) 402-8000 (518) 402-2209 (Fax)

FOIL Request No. 06-1659
10/18/2006

Denise M. Sheehan
Commissioner

Mr. Jason Tourscher
Chazen Engineering
21 Fox Street
Poughkeepsie, NY 12601-

Dear Mr. Tourscher:

This is to acknowledge receipt of your Freedom of Information Law request seeking records regarding: **occurrences of endangered, threatened and/or special concern wildlife, rare plant and other significant habitats in vicinity of site adjacent to Old Place Creek, Richmond Cty.**

I have referred your request to the following Records Custodian(s) / Freedom of Information Law Coordinator(s) who may possess the records you are requesting:

Mr. Jack Cooper - Fish and Wildlife
625 Broadway
Albany, NY 12233-4750 (518) 402-8907

You may expect a response to your request by **11/15/2006.**

If I can be of further assistance, please contact me at(518) 402-8000 . Refer to request number **06-1659** , if you write or call.

Sincerely,

Ruth L. Earl
Records Access Officer

New York State Department of Environmental Conservation
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **FAX:** (518) 402-8925
Website: www.dec.state.ny.

Denise M. Sheehan
Commissioner

October 27, 2006

Jason Tourscher
Chazen Engineering
21 Fox Street
Poughkeepsie, NY 12601

Dear Mr. Tourscher:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to an Environmental Assessment for the proposed 26-acre Phase II Remedial Investigation and Ecological Risk Assessment, area along Old Place Creek below Goethals Bridge which connects New Jersey and Staten Island, area as indicated on the map you provided, located in Richmond County, New York State.

Enclosed is a report of rare or state-listed animals and plants, significant natural communities, and other significant habitats, which our databases indicate occur, or may occur, on your site or in the immediate vicinity of your site. The information contained in this report is considered sensitive and should not be released to the public without permission from the New York Natural Heritage Program.

The presence of rare species may result in this project requiring additional permits, permit conditions, or review. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, at the enclosed address.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement on presence or absence of all rare or state-listed species or significant natural communities. This information should not be substituted for on-site surveys that may be required for environmental impact assessment.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

Sincerely,

Tara Seoane

Tara Seoane, Information Services
NY Natural Heritage Program

Enc.
cc: Reg. 2, Wildlife Mgr
Reg. 2, Fisheries Mgr.
Peter Nye, Endangered Species Unit, Albany
Jack Cooper, Fish and Wildlife, Albany

NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor, Albany, NY 12233-4757
(518) 402-8935

Reference Stream

HISTORICAL RECORDS:

No recent information; Precise locations unknown; Current status unknown.

~Because precise locations are unknown, no maps are provided for these records.
~Refer to the User's Guide for explanations of codes, ranks and fields.

Natural Heritage Report on Rare Species and Ecological Communities

REPTILES

Kinosternon subrubrum

					Office Use
Eastern Mud Turtle	**NY Legal Status:**	Endangered	**NYS Rank:**	S1; Critically imperiled	1480
	Federal Listing:		**Global Rank:**	G5; Demonstrably secure	M
	Last Report:	**	**EO Rank:**	Historical, no recent information	ESU
	County:	Richmond			
	Town:	City Of New York			
	Location:	Old Place Creek			
	Directions:	Specimen labels: Old Place Creek and salt meadows at Old Place, Staten Island.			
	General Quality and Habitat:				

1 Records Processed

R2-0005892

United States Department of the Interior

FISH AND WILDLIFE SERVICE

New York Field Office
3817 Luker Road, Cortland, NY 13045
Phone: (607) 753-9334
Fax: (607) 753-9699

Long Island Field Office
3 Old Barto Rd., Brookhaven, NY 11719
Phone: (631) 776-1401
Fax: (631) 776-1405

Endangered Species Act List Request Response Cover Sheet

This cover sheet is provided in response to a search of our website* for information regarding the potential presence of species under jurisdiction of the U.S. Fish and Wildlife Service (Service) within a proposed project area.

Attached is a copy of the New York State County List of Threatened, Endangered, and Candidate Species for the appropriate county(ies). The database that we use to respond to list requests was developed primarily to assist Federal agencies that are consulting with us under Section 7(a)(2) of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*). Our lists include all Federally-listed, proposed, and candidate species known to occur, as well as those likely to occur, in specific counties.

The attached information is designed to assist project sponsors or applicants through the process of determining whether a Federally-listed, proposed, or candidate species and/or "critical habitat" may occur within their proposed project area and when it is appropriate to contact our offices for additional coordination or consultation. You may be aware that our offices have provided much of this information in the past in project-specific letters. However, due to increasing project review workloads and decreasing staff, we are now providing as much information as possible through our website. We encourage anyone requesting species list information to print out all materials used in any analyses of effects on listed, proposed, or candidate species.

The Service routinely updates this database as species are proposed, listed, and delisted, or as we obtain new biological information or specific presence/absence information for listed species. If project proponents coordinate with the Service to address proposed and candidate species in early stages of planning, this should not be a problem if these species are eventually listed. However, we recommend that both project proponents and reviewing agencies retrieve from our online database an *updated* list every 90 days to append to this document to ensure that listed species presence/absence information for the proposed project is *current*.

Reminder: Section 9 of the ESA prohibits unauthorized taking** of listed species and applies to Federal and non-Federal activities. For projects not authorized, funded, or carried out by a Federal agency, consultation with the Service pursuant to Section 7(a)(2) of the ESA is not required. However, no person is authorized to "take**" any listed species without appropriate authorizations from the Service. Therefore, we provide technical assistance to individuals and agencies to assist with project planning to avoid the potential for "take**," or when appropriate, to provide assistance with their application for an incidental take permit pursuant to Section 10(a)(1)(B) of the ESA.

Additionally, endangered species and their habitats are protected by Section 7(a)(2) of the ESA, which requires Federal agencies, in consultation with the Service, to ensure that any action it authorizes, funds, or carries out is not likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat. An assessment of the potential direct, indirect, and cumulative impacts is required for all Federal actions that may affect listed species.

For instance, work in certain waters of the United States, including wetlands and streams, may require a permit from the U.S. Army Corps of Engineers (Corps). If a permit is required, in reviewing the application pursuant to the Fish and Wildlife Coordination Act (48 Stat. 401, as amended;16 U.S.C. 661 *et seq.*), the Service may concur, with or without recommending additional permit conditions, or recommend denial of the permit depending upon potential adverse impacts on fish and wildlife resources associated with project construction or implementation. The need for a Corps permit may be determined by contacting the appropriate Corps office(s).*

For additional information on fish and wildlife resources or State-listed species, we suggest contacting the appropriate New York State Department of Environmental Conservation regional office(s) and the New York Natural Heritage Program Information Services.*

Since wetlands, ponds, streams, or open or sheltered coastal waters may be present in the project area, it may be helpful to utilize the National Wetlands Inventory (NWI) maps as an initial screening tool. However, they may or may not be available for the project area. Please note that while the NWI maps are reasonably accurate, they should not be used in lieu of field surveys for determining the presence of wetlands or delineating wetland boundaries for Federal regulatory purposes. Online information on the NWI program and digital data can be downloaded from Wetlands Mapper, http://wetlands.fws.gov/mapper_tool.htm.

Project construction or implementation should not commence until all requirements of the ESA have been fulfilled. After reviewing our website and following the steps outlined, we encourage both project proponents and reviewing agencies to contact our office to determine whether an accurate determination of species impacts has been made. If there are any questions about our county lists or agency or project proponent responsibilities under the ESA, please contact the New York or Long Island Field Office Endangered Species Program at the numbers listed above.

Attachment (county list of species)

*Additional information referred to above may be found on our website at: http://www.fws.gov/northeast/nyfo/es/section7.htm

** Under the Act and regulations, it is illegal for any person subject to the jurisdiction of the United States to ***take*** (includes harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect; or to attempt any of these), import or export, ship in interstate or foreign commerce in the course of commercial activity, or sell or offer for sale in interstate or foreign commerce any endangered fish or wildlife species and most threatened fish and wildlife species. It is also illegal to possess, sell, deliver, carry, transport, or ship any such wildlife that has been taken illegally. "Harm" includes any act which actually kills or injures fish or wildlife, and case law has clarified that such acts may include significant habitat modification or degradation that significantly impairs essential behavioral patterns of fish or wildlife.

Richmond County

Federally Listed Endangered and Threatened Species and Candidate Species

This list represents the best available information regarding known or likely County occurrences of Federally-listed and candidate species and is subject to change as new information becomes available.

Common Name	Scientific Name	Status
Shortnose sturgeon[1]	*Acipenser brevirostrum*	E

E=Endangered T=Threatened P=Proposed C=Candidate

[1]Primarily occurs in Hudson River. Principal responsibility for this species is vested with the National Oceanic and Atmospheric Administration/Fisheries.

Please visit the following website for more information http://www.nmfs.noaa.gov/pr/species/esa.htm.

Information current as of: 7/9/2007

R2-0005895

COMPREHENSIVE LIST OF NEW JERSEY MUNICIPALITIES WITH EXTANT AND HISTORIC OCCURRENCES OF FEDERALLY LISTED THREATENED AND ENDANGERED SPECIES, AND CANDIDATE SPECIES, PURSUANT TO THE ENDANGERED SPECIES ACT OF 1973
(87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*)

{Revised June 2004; Bald eagle data revised July 2005}

1. SPECIES OCCURRENCES BY COUNTY AND MUNICIPALITY

Index of symbols used in the tables:
- T – Federally listed as threatened.
- E – Federally listed as endangered.
- X – Known occurrence of extant federally listed or candidate species.
- H – Historic occurrence of federally listed or candidate species.
- W – Wintering foraging habitat for bald eagles.

2. FEDERALLY LISTED THREATENED AND ENDANGERED SPECIES AND CANDIDATE SPECIES IN NEW JERSEY UNDER U.S. FISH AND WILDLIFE SERVICE JURISDICTION (Species Narratives)

LISTED SPECIES - PLANTS
- Swamp pink (*Helonias bullata*)
- Knieskern's beaked-rush (*Rhynchospora knieskernii*)
- Sensitive joint-vetch (*Aeschynomene virginica*)
- American chaffseed (*Schwalbea americana*)
- Small whorled pogonia (*Isotria medeoloides*)
- Seabeach amaranth (*Amaranthus pumilus*)

LISTED SPECIES - INVERTEBRATES
- Dwarf wedgemussel (*Alasmidonta heterodon*)
- Northeastern beach tiger beetle (*Cicindela dorsalis dorsalis*)

LISTED SPECIES - REPTILES
- Bog turtle (*Clemmys muhlenbergii*)

LISTED SPECIES - BIRDS
- Bald eagle (*Haliaeetus leucocephalus*)
- Piping plover (*Charadrius melodus*)
- Roseate tern (*Sterna dougallii*)

LISTED SPECIES - MAMMALS
- Indiana bat (*Myotis sodalis*)

CANDIDATE SPECIES
- Bog asphodel (*Narthecium americanum*)
- Hirst's panic grass (*Dichanthelium hirstii*)

DELISTED SPECIES
- Peregrine falcon (*Falco peregrinus*)

UNION COUNTY

The species listed below are known to occur in at least one of the Union County municipalities listed below.

Species	
Bog Turtle	
Indiana Bat	(*)

Municipalities
Berkeley Heights Township
Mountainside Borough
Scotch Plains Township
Summit City

(*) Indiana bats may occur in any municipality within Union County

Appendix B:
Site Photographs

Photo #1
Northern view of the Reference Channel before high tide

Photo #2
Northern view of the Reference Channel before low tide. The northern successional hardwood forest community is located in the distance.

Photo #3
Spike grass, smooth cordgrass, and salt meadow grass are the dominant vegetation along the shores of the Reference Channel and Old Place Creek.

Photo #4
View of the eastern shore of the Reference Channel. The vegetation is similar; however, common reed is more prevalent.

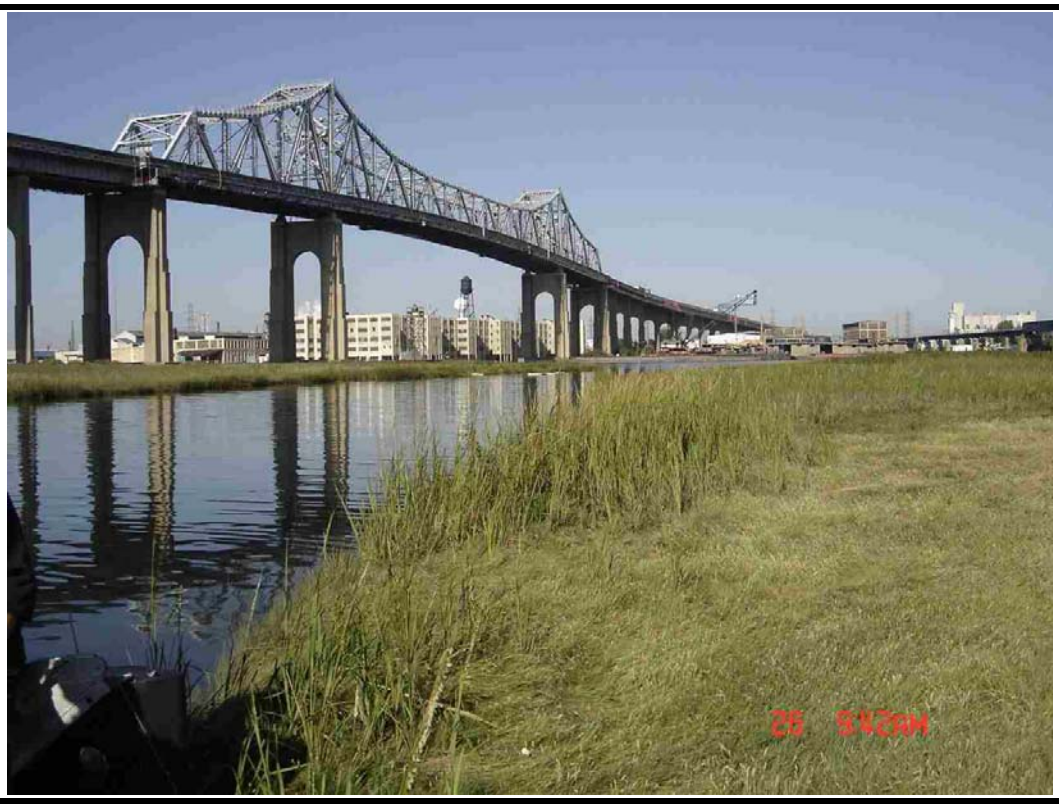


Photo #5
Western view of the main channel of Old Place Creek. Goethals Bridge is located in the background.

Photo #6
Western view of salt marsh wetlands located south of the Reference Channel Area. These wetlands provide important foraging habitat for water birds.

Photo #7
Numerous minnow traps were placed in the Reference Channel to trap biota

Photo #8
Northern view of the wetlands located south of the Reference Channel Area.

ATTACHMENT 2

Tabular Summary of All Analytical Data

APPENDIX N - ATTACHMENT 2-1a
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Aluminum ug/L	Antimony ug/L	Arsenic ug/L	Barium ug/L	Beryllium ug/L	Cadmium ug/L	Calcium ug/L	Chromium, Hexavalent ug/L	Chromium ug/L	Cobalt ug/L
Saltwater CMC					69.0			40				
Saltwater CCC					36.0			8.8				
SW-W	0-0.16	09/28/06	212.	6.00 U	2.00 U	200. U	1.00 U	4.00 U	238,000	50.0 U	10.0 U	50.0 U
SW-X	0-0.16	09/28/06	200. U	6.00 U	3.20	200. U	1.00 U	4.00 U	242,000	50.0 U	10.0 U	50.0 U
SW-Y	0-0.16	09/28/06	278.	6.00 U	3.60	200. U	1.00 U	4.00 U	233,000	50.0 U	10.0 U	50.0 U
SW-Z	0-0.16	9/28/2006	236.	6.00 U	2.40	200. U	1.00 U	4.00 U	236,000	50.0 U	10.0 U	50.0 U

APPENDIX N - ATTACHMENT 2-1a
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Copper ug/L	Iron ug/L	Lead ug/L	Magnesium ug/L	Manganese ug/L	Mercury ug/L	Methyl Mercury ug/L	Nickel ug/L	Potassium ug/L
Saltwater CMC			4.8		210			1.8		74	
Saltwater CCC			3.1		8.1			0.94		8.2	
SW-W	0-0.16	09/28/06	25.0 U	100. U	3.00 U	786,000	54.2	0.200 U	0.0000572	40.0 U	392,000 J
SW-X	0-0.16	09/28/06	25.0 U	100. U	3.00 U	798,000	54.0	0.200 U	0.0000535	40.0 U	400,000 J
SW-Y	0-0.16	09/28/06	25.0 U	100. U	6.00 U	800,000	55.1	0.200 U	0.0000637	40.0 U	434,000 J
SW-Z	0-0.16	9/28/2006	25.0 U	100. U	3.00 U	791,000	55.2	0.200 U	0.0000912	40.0 U	412,000 J

APPENDIX N - ATTACHMENT 2-1a
DETECTED CONSTITUENTS IN SURFACE WATER
METALS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Selenium ug/L	Silver ug/L	Sodium ug/L	Thallium ug/L	THg ug/L	Vanadium ug/L	Zinc ug/L
Saltwater CMC			290	1.9					90
Saltwater CCC			71						81
SW-W	0-0.16	09/28/06	10.0 U	10.0 U	6,520,000	1.00 U	0.0147	50.0 U	20.0 U
SW-X	0-0.16	09/28/06	10.0 U	10.0 U	6,300,000	1.00 U	0.0152	50.0 U	20.0 U
SW-Y	0-0.16	09/28/06	10.0 U	10.0 U	6,480,000	1.00 U	0.0164	50.0 U	20.0 U
SW-Z	0-0.16	9/28/2006	10.0 U	10.0 U	6,540,000	1.00 U	0.0178	50.0 U	20.0 U

APPENDIX N - ATTACHMENT 2-1b
DETECTED CONSTITUENTS IN SURFACE WATER
PESTICIDES
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Aldrin ug/L	Alpha-BHC ug/L	Alpha-Chlordane ug/L	Beta-BHC ug/L	Bhc, Delta Isomer ug/L	Gamma Isomer ug/L	Dieldrin ug/L	Endosulfan I ug/L	Endosulfan II ug/L	Endosulfan Sulfate ug/L	Endrin Aldehyde ug/L	Endrin Ketone ug/L
Saltwater CMC			1.3					0.16	0.71					
Saltwater CCC									0.0019					
SW-W	0-0.16	9/28/2006	0.00350 U	0.00270 U	0.00460 U	0.00650 U	0.00330 U	0.00180 U	0.00180 U	0.00220 U	0.00340 U	0.00490 U	0.00680 U	0.00370 U
SW-X	0-0.16	9/28/2006	0.00360 U	0.00280 U	0.00470 U	0.00660 U	0.00330 U	0.00180 U	0.00180 U	0.00230 U	0.00350 U	0.00500 U	0.00690 U	0.00380 U
SW-Y	0-0.16	9/28/2006	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U
SW-Z	0-0.16	9/28/2006	0.00330 U	0.00260 U	0.00440 U	0.00620 U	0.00310 U	0.00170 U	0.00170 U	0.00210 U	0.00320 U	0.00460 U	0.00640 U	0.00350 U

APPENDIX N - ATTACHMENT 2-1b
DETECTED CONSTITUENTS IN SURFACE WATER
PESTICIDES
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Endrin ug/L	Gamma-Chlordane ug/L	Heptachlor Epoxide ug/L	Heptachlor ug/L	Methoxychlor ug/L	P,P'-DDD ug/L	P,P'-DDE ug/L	P,P'-DDT ug/L	Toxaphene ug/L
Saltwater CMC			0.037		0.053	0.053				0.13	0.21
Saltwater CCC			0.0023		0.0036	0.0036				0.001	0.0002
SW-W	0-0.16	9/28/2006	0.00320 U	0.00180 U	0.00150 U	0.00270 U	0.00710 U	0.00250 U	0.00180 U	0.00520 U	0.0990 U
SW-X	0-0.16	9/28/2006	0.00320 U	0.00180 U	0.00160 U	0.00280 U	0.00730 U	0.00260 U	0.00180 U	0.00530 U	0.100 U
SW-Y	0-0.16	9/28/2006	0.00300 U	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U
SW-Z	0-0.16	9/28/2006	0.00300 U	0.00170 U	0.00150 U	0.00260 U	0.00680 U	0.00240 U	0.00170 U	0.00490 U	0.0940 U

APPENDIX N - ATTACHMENT 2-1c
DETECTED CONSTITUENTS IN SURFACE WATER
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Aroclor 1016 ug/L	Aroclor 1221 ug/L	Aroclor 1232 ug/L	Aroclor 1242 ug/L	Aroclor 1248 ug/L	Aroclor 1254 ug/L	Aroclor 1260 ug/L
Saltwater CMC									
Saltwater CCC			0.03	0.03	0.03	0.03	0.03	0.03	0.03
SW-W	0-0.16	9/28/2006	0.0990 U	0.490 U	0.410 U	0.170 U	0.160 U	0.110 U	0.120 U
SW-X	0-0.16	9/28/2006	0.100 U	0.510 U	0.420 U	0.180 U	0.160 U	0.120 U	0.130 U
SW-Y	0-0.16	9/28/2006	0.0940 U	0.470 U	0.390 U	0.160 U	0.150 U	0.110 U	0.120 U
SW-Z	0-0.16	9/28/2006	0.0940 U	0.470 U	0.390 U	0.160 U	0.150 U	0.110 U	0.120 U

APPENDIX N - ATTACHMENT 2-1d
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane ug/L	1,1,2,2-Tetrachloroethane ug/L	1,1,2-Trichloroethane ug/L	1,1-Dichloroethane ug/L	1,1-Dichloroethene ug/L	1,2,4-Trichlorobenzene ug/L	1,2-Dibromoethane ug/L	1,2-Dichlorobenzene ug/L
Saltwater CMC										
Saltwater CCC										
SW-W	0-0.16	9/28/2006	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
SW-X	0-0.16	9/28/2006	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
SW-Y	0-0.16	9/28/2006	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U
SW-Z	0-0.16	9/28/2006	0.280 U	0.280 U	0.320 U	0.230 U	0.330 U	0.160 U	0.520 U	0.200 U

APPENDIX N - ATTACHMENT 2-1d
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	1,2-Dichloroethane ug/L	1,2-Dichloropropane ug/L	1,3-Dichlorobenzene ug/L	1,4-Dichlorobenzene ug/L	2-Butanone (MEK) ug/L	2-Hexanone ug/L	4-Methyl-2-Pentanone (MIBK) ug/L	Acetic Acid, Methyl Ester ug/L
Saltwater CMC										
Saltwater CCC										
SW-W	0-0.16	9/28/2006	0.290 U	0.200 U	0.320 U	0.240 U	2.60 U	1.30 UJ	1.10 U	2.10 U
SW-X	0-0.16	9/28/2006	0.290 U	0.200 U	0.320 U	0.240 U	2.60 U	1.30 UJ	1.10 U	2.10 U
SW-Y	0-0.16	9/28/2006	0.290 U	0.200 U	0.320 U	0.240 U	2.60 U	1.30 UJ	1.10 U	2.10 U
SW-Z	0-0.16	9/28/2006	0.290 U	0.200 U	0.320 U	0.240 U	2.60 U	1.30 UJ	1.10 U	2.10 U

APPENDIX N - ATTACHMENT 2-1d
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Acetone ug/L	Benzene ug/L	Bromodichloromethane ug/L	Bromoform ug/L	Bromomethane ug/L	Carbon Disulfide ug/L	Carbon Tetrachloride ug/L	Chlorobenzene ug/L	Chlorodibromomethane ug/L	Chloroethane ug/L
Saltwater CMC												
Saltwater CCC												
SW-W	0-0.16	9/28/2006	2.40 U	0.210 U	0.170 U	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U
SW-X	0-0.16	9/28/2006	2.40 U	0.210 U	0.170 U	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U
SW-Y	0-0.16	9/28/2006	2.40 U	0.210 U	0.170 U	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U
SW-Z	0-0.16	9/28/2006	2.40 U	0.210 U	0.170 U	0.540 U	0.220 U	0.210 U	0.290 U	0.220 U	0.190 U	0.560 U

APPENDIX N - ATTACHMENT 2-1d
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Chloroform ug/L	Chloromethane ug/L	Cis-1,2-Dichloroethene ug/L	Cis-1,3-Dichloropropene ug/L	Cyclohexane ug/L	DBCP ug/L	Dichlorodifluoromethane ug/L	Ethylbenzene ug/L	Isopropylbenzene ug/L
Saltwater CMC											
Saltwater CCC											
SW-W	0-0.16	9/28/2006	0.220 U	0.350 U	0.180 U	0.150 U	0.500 U	1.10 U	0.750 U	0.200 U	0.200 U
SW-X	0-0.16	9/28/2006	0.220 U	0.350 U	0.180 U	0.150 U	0.500 U	1.10 U	0.750 U	0.200 U	0.200 U
SW-Y	0-0.16	9/28/2006	0.220 U	0.350 U	0.180 U	0.150 U	0.500 U	1.10 U	0.750 U	0.200 U	0.200 U
SW-Z	0-0.16	9/28/2006	0.220 U	0.350 U	0.180 U	0.150 U	0.500 U	1.10 U	0.750 U	0.200 U	0.200 U

APPENDIX N - ATTACHMENT 2-1d
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	M,P-Xylene (sum Of Isomers) ug/L	Methylcyclohexane ug/L	Methylene Chloride ug/L	O-xylene ug/L	Styrene ug/L	Tert-Butyl Methyl Ether ug/L	Tetrachloroethylene(PERC) ug/L	Toluene ug/L	Trans-1,2-Dichloroethene ug/L
Saltwater CMC											
Saltwater CCC											
SW-W	0-0.16	9/28/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.310 U	0.280 U	0.200 U	0.420 U
SW-X	0-0.16	9/28/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.310 U	0.280 U	0.200 U	0.420 U
SW-Y	0-0.16	9/28/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.310 U	0.280 U	0.200 U	0.420 U
SW-Z	0-0.16	9/28/2006	0.420 U	0.180 U	0.270 U	0.310 U	0.160 U	0.310 U	0.280 U	0.200 U	0.420 U

APPENDIX N - ATTACHMENT 2-1d
DETECTED CONSTITUENTS IN SURFACE WATER
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Trans-1,3-Dichloropropene ug/L	Trichloroethene (TCE) ug/L	Trichlorofluoromethane ug/L	Trichlorotrifluoroethane ug/L	Vinyl Chloride ug/L
Saltwater CMC							
Saltwater CCC							
SW-W	0-0.16	9/28/2006	0.200 U	0.290 U	0.250 U	0.690 U	0.290 U
SW-X	0-0.16	9/28/2006	0.200 U	0.290 U	0.250 U	0.690 U	0.290 U
SW-Y	0-0.16	9/28/2006	0.200 U	0.290 U	0.250 U	0.690 U	0.290 U
SW-Z	0-0.16	9/28/2006	0.200 U	0.290 U	0.250 U	0.690 U	0.290 U

APPENDIX N - ATTACHMENT 2-1e
DETECTED CONSTITUENTS IN SURFACE WATER
INORGANICS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Cyanide ug/L	Suspended Solids (residue, Non-Filterable) ug/L
Saltwater CMC				
Saltwater CCC			1	
SW-W	'0-0.16	9/28/2006	10.0 U	5,000
SW-X	'0-0.16	9/28/2006	10.0 U	15,000
SW-Y	'0-0.16	9/28/2006	10.0 U	32,000
SW-Z	'0-0.16	9/28/2006	10.0 U	6,000

APPENDIX N - ATTACHMENT 2-1f
DETECTED CONSTITUENTS IN SURFACE WATER
DIOXINS and FURANS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	1,2,3,4,6,7,8-HPCDD ug/L	1,2,3,4,6,7,8-HPCDF ug/L	1,2,3,4,7,8,9-HPCDF ug/L	1,2,3,4,7,8-HXCDD ug/L	1,2,3,4,7,8-HXCDF ug/L	1,2,3,6,7,8-HXCDD ug/L	1,2,3,6,7,8-HXCDF ug/L	1,2,3,7,8,9-HXCDD ug/L	1,2,3,7,8,9-HXCDF ug/L
Saltwater CMC											
Saltwater CCC											
SW-W	0-0.16	9/28/2006	0.00000358 A	0.00000205 A	0.00000259 U	0.00000259 U	0.000000760 A	0.00000259 U	0.000000530 A	0.00000259 U	0.00000259 U
SW-Y	0-0.16	9/28/2006	0.00000742 A	0.00000339 A	0.00000108 A	0.00000116 A	0.00000130 A	0.00000158 A	0.00000138 A	0.00000122 A	0.00000101 A

APPENDIX N - ATTACHMENT 2-1f
DETECTED CONSTITUENTS IN SURFACE WATER
DIOXINS and FURANS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	1,2,3,7,8-PECDD ug/L	1,2,3,7,8-PECDF ug/L	2,3,4,6,7,8-HXCDF ug/L	2,3,4,7,8-PECDF ug/L	2,3,7,8-TCDF ug/L	Tetrachlorodibenzo-P-Dioxin ug/L	OCDD ug/L	OCDF ug/L	Total HPCDDS ug/L
Saltwater CMC											
Saltwater CCC											
SW-W	0-0.16	9/28/2006	0.00000259 U	0.000000740 A	0.000000550 A	0.000000990 A	0.000000710 U	0.000000970 U	0.0000383 A	0.00000300 A	0.00000774
SW-Y	0-0.16	9/28/2006	0.00000156 A	0.00000150 A	0.00000118 A	0.00000158 A	0.000000660 U	0.000000890 A	0.0000713 A	0.00000629 A	0.0000216

APPENDIX N - ATTACHMENT 2-1f
DETECTED CONSTITUENTS IN SURFACE WATER
DIOXINS and FURANS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Total HPCDFS ug/L	Total HXCDDS ug/L	Total HXCDFS ug/L	Total PECDDS ug/L	Total PECDFS ug/L	Total TCDDS ug/L	Total TCDFS ug/L
Saltwater CMC									
Saltwater CCC									
SW-W	0-0.16	9/28/2006	0.00000290	0.00000259 U	0.00000130	0.00000259 U	0.00000174	0.00000118	0.000000710 U
SW-Y	0-0.16	9/28/2006	0.00000677	0.00000497	0.00000487	0.00000254 U	0.00000369	0.00000178	0.000000660 U

APPENDIX N - ATTACHMENT 2-1g
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	1,1'-Biphenyl ug/L	2,4,5-Trichlorophenol ug/L	2,4,6-Trichlorophenol ug/L	2,4-Dichlorophenol ug/L	2,4-Dimethylphenol ug/L	2,4-Dinitrophenol ug/L	2,4-Dinitrotoluene ug/L	2,6-Dinitrotoluene ug/L	2-Chloro-naphthalene ug/L
Saltwater CMC											
Saltwater CCC											
SW-W	'0-0.16	9/28/2006	0.330 U	1.90 U	1.300 U	1.60 U	1.600 U	0.89 U	0.86 U	0.56 U	0.98 U
SW-X	'0-0.16	9/28/2006	0.330 U	1.90 U	1.30 U	1.60 U	1.600 U	0.89 U	0.86 U	0.56 U	0.98 U
SW-Y	'0-0.16	9/28/2006	0.330 U	1.90 U	1.300 U	1.60 U	1.60 U	0.89 U	0.86 U	0.56 U	0.98 U
SW-Z	'0-0.16	9/28/2006	0.330 U	1.900 U	1.300 U	1.60 U	1.60 U	0.89 U	0.86 U	0.56 U	0.98 U

APPENDIX N - ATTACHMENT 2-1g
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2-Chlorophenol ug/L	2-Methylnaphthalene ug/L	2-Methylphenol ug/L	2-Nitroaniline ug/L	2-Nitrophenol ug/L	3,3'-Dichlorobenzidine ug/L	3-Nitroaniline ug/L	4,6-Dinitro-2-Methylphenol ug/L	4-Bromophenyl-Phenyl Ether ug/L
Saltwater CMC											
Saltwater CCC											
SW-W	'0-0.16	9/28/2006	1.0 U	0.41 U	1.40 U	0.66 U	1.80 U	1.20 U	1.30 U	0.72 U	0.30 U
SW-X	'0-0.16	9/28/2006	1.0 U	0.41 U	1.40 U	0.66 U	1.80 U	1.20 U	1.30 U	0.72 U	0.30 U
SW-Y	'0-0.16	9/28/2006	1.0 U	0.41 U	1.40 U	0.66 U	1.80 U	1.20 U	1.30 U	0.72 U	0.30 U
SW-Z	'0-0.16	9/28/2006	1.0 U	0.41 U	1.40 U	0.66 U	1.80 U	1.20 U	1.30 U	0.72 U	0.30 U

APPENDIX N - ATTACHMENT 2-1g
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	4-Chloro-3-Methylphenol ug/L	4-Chloroaniline ug/L	4-Chlorophenyl-Phenyl Ether ug/L	4-Nitroaniline ug/L	4-Nitrophenol ug/L	Acenaphthene ug/L	Acenaphthylene ug/L	Acetophenone ug/L	Anthracene ug/L
Saltwater CMC											
Saltwater CCC											
SW-W	'0-0.16	9/28/2006	1.200 U	0.40 U	0.43 U	0.7 U	0.84 U	0.02 U	0.01 U	0.37 U	0.02 U
SW-X	'0-0.16	9/28/2006	1.200 U	0.40 U	0.43 U	0.7 U	0.84 U	0.02 U	0.01 U	0.37 U	0.02 U
SW-Y	'0-0.16	9/28/2006	1.200 U	0.40 U	0.43 U	0.7 U	0.84 U	0.02 U	0.01 U	0.37 U	0.02 U
SW-Z	'0-0.16	9/28/2006	1.2 U	0.40 U	0.43 U	0.7 U	0.84 U	0.02 U	0.01 U	0.37 U	0.02 U

APPENDIX N - ATTACHMENT 2-1g
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Atrazine ug/L	Benzaldehyde ug/L	Benzo (a) Anthracene ug/L	Benzo (a) Pyrene ug/L	Benzo (b) fluoranthene ug/L	Benzo (g,H,i) Perylene ug/L	Benzo (k) fluoranthene ug/L	Bis(2-Chloroethoxy) Methane ug/L	Bis(2-Chloroethyl) Ether ug/L	Bis(2-Chloroisopropyl) Ether ug/L
Saltwater CMC												
Saltwater CCC												
SW-W	'0-0.16	9/28/2006	0.2 U	0.270 U	0.01 U	0.017 U	0.04 U	0.018 U	0.016 U	0.65 U	0.53 U	0.74 U
SW-X	'0-0.16	9/28/2006	0.2 U	0.270 U	0.01 U	0.017 U	0.04 U	0.018 U	0.016 U	0.65 U	0.53 U	0.74 U
SW-Y	'0-0.16	9/28/2006	0.2 U	0.27 U	0.01 U	0.017 U	0.04 U	0.018 U	0.016 U	0.65 U	0.53 U	0.74 U
SW-Z	'0-0.16	9/28/2006	0.2 U	0.27 U	0.01 U	0.017 U	0.04 U	0.018 U	0.016 U	0.65 U	0.53 U	0.74 U

APPENDIX N - ATTACHMENT 2-1g
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Bis(2-Ethylhexyl) Phthalate ug/L	Butyl Benzyl Phthalate ug/L	Caprolactam ug/L	Carbazole ug/L	Chrysene ug/L	Cresols, M & P ug/L	Dibenz (a,H) Anthracene ug/L	Dibenzofuran ug/L	Diethyl Phthalate ug/L	Dimethyl Phthalate ug/L	Di-N-Butyl Phthalate ug/L
Saltwater CMC													
Saltwater CCC													
SW-W	'0-0.16	9/28/2006	0.66 U	0.59 U	0.32 U	0.36 U	0.02 U	1.30 U	0.02 U	0.34 U	0.390 U	0.33 U	0.59 U
SW-X	'0-0.16	9/28/2006	0.66 U	0.59 U	0.32 U	0.36 U	0.02 U	1.30 U	0.02 U	0.34 U	0.390 U	0.33 U	0.59 U
SW-Y	'0-0.16	9/28/2006	0.66 U	0.59 U	0.320 U	0.36 U	0.02 U	1.30 U	0.02 U	0.34 U	0.390 U	0.33 U	0.59 U
SW-Z	'0-0.16	9/28/2006	0.66 U	0.59 U	0.320 U	0.36 U	0.02 U	1.30 U	0.02 U	0.34 U	0.390 U	0.33 U	0.59 U

APPENDIX N - ATTACHMENT 2-1g
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Di-N-Octyl Phthalate ug/L	Fluoranthene ug/L	Fluorene ug/L	Hexachlorobenzene ug/L	Hexachloro-butadiene ug/L	Hexachloro-cyclopentadiene ug/L	Hexachloro-ethane ug/L	Indeno (1,2,3-C,d) Pyrene ug/L	Isophorone ug/L
Saltwater CMC											
Saltwater CCC											
SW-W	'0-0.16	9/28/2006	0.57 U	0.01 U	0.02 U	0.06 U	0.18 U	0.41 U	0.28 U	0.01 U	0.59 U
SW-X	'0-0.16	9/28/2006	0.57 U	0.01 U	0.02 U	0.06 U	0.18 U	0.41 U	0.28 U	0.01 U	0.59 U
SW-Y	'0-0.16	9/28/2006	0.57 U	0.01 U	0.02 U	0.06 U	0.18 U	0.41 U	0.28 U	0.01 U	0.59 U
SW-Z	'0-0.16	9/28/2006	0.57 U	0.01 U	0.02 U	0.06 U	0.18 U	0.41 U	0.28 U	0.01 U	0.59 U

APPENDIX N - ATTACHMENT 2-1g
DETECTED CONSTITUENTS IN SURFACE WATER
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Naphthalene ug/L	Nitrobenzene ug/L	N-Nitroso-Di-N-Propylamine ug/L	N-Nitroso-diphenylamine ug/L	Penta-chlorophenol ug/L	Phenanthrene ug/L	Phenol ug/L	Pyrene ug/L
Saltwater CMC							13			
Saltwater CCC							7.9			
SW-W	'0-0.16	9/28/2006	0.03 U	0.42 U	0.5 U	0.52 U	0.40 U	0.02 U	0.50 U	0.01 U
SW-X	'0-0.16	9/28/2006	0.03 U	0.42 U	0.5 U	0.52 U	0.40 U	0.02 U	0.50 U	0.01 U
SW-Y	'0-0.16	9/28/2006	0.03 U	0.42 U	0.5 U	0.52 U	0.40 U	0.02 U	0.50 U	0.01 U
SW-Z	'0-0.16	9/28/2006	0.03 U	0.42 U	0.5 U	0.52 U	0.40 U	0.02 U	0.50 U	0.01 U

APPENDIX N - ATTACHMENT 2-1h
DETECTED CONSTITUENTS IN SURFACE WATER
TENTATIVELY IDENTIFIED COMPOUNDS
Old Place Creek, Staten Island, New York

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (ug/L)	
SW-W	ACTD	0-0.16	9/28/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		12	J
SW-X	ACTD	0-0.16	9/28/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		12	J
SW-Y	ACTD	0-0.16	9/28/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		13.00	J
SW-Z	ACTD	0-0.16	9/28/2006	WS	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		12.0	J

APPENDIX N - ATTACHMENT 2-2a
DETECTED CONSTITUENTS IN SEDIMENT
METALS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Acid Volatile Sulfide mg/kg	Aluminum mg/kg	Antimony mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Calcium mg/kg	Chromium, Hexavalent mg/kg	Chromium mg/kg	Cobalt mg/kg
Sediment ERL						8			1.2			81	
Sediment ERM						70			9.6			370	
SED-W-1-0-0.5	0-0.5	10/02/06	0.000100 UJ	21,400 J	6.40 UJ	28.0 J	190. J	1.60 UJ	0.00000340 UJ	3,610 J	3.20 U	112. J	16.0 UJ
DUP	0-0.5	10/02/06	0.000200 J	18,400 J	2.20 UJ	24.8 J	151. J	1.00 J	0.830 J	3,850 J	3.40 U	90.3 J	12.0 J
SED-W-2-0.5-1.0	0.5-1	10/02/06											
SED-W-2-0-0.5	0-0.5	10/02/06		20,800 J	6.20 UJ	37.2 J	334. J	1.60 UJ	7.10 J	4,080 J	3.20 U	248. J	16.0 UJ
SED-W-2-1.0-1.5	1-1.5	10/02/06		22,800 J	3.70 UJ	23.9	62.1	1.40	0.920 U	1,950 J	1.90 U	55.7	13.0 J
SED-W-3-0-0.5	0-0.5	10/02/06	0.000100 UJ	23,900 J	4.90 UJ	24.1 J	99.4 J	1.50 J	1.20 UJ	2,950 J	2.50 U	66.4 J	15.0 J
SED-X-1-0-0.5	0-0.5	09/29/06	0.00230 J	15,800 J	4.80 UJ	22.4 J	121. J	1.20 UJ	1.20 UJ	2,390 J	2.40 UJ	82.6 J	12.0 UJ
SED-X-2-0.5-1.0	0.5-1	09/29/06		14,500 J	3.80 UJ	44.5	339.	0.950 U	7.60	5,730	1.90 U	256.	12.1
SED-X-2-0-0.5	0-0.5	09/29/06		19,200 J	5.70 UJ	46.6 J	524. J	1.40 UJ	*10.4 J*	4,080 J	2.80 UJ	281. J	14.6 J
SED-X-2-1.0-1.5	1-1.5	09/29/06		21,200 J	4.00 UJ	21.8	70.7	1.20	0.990 U	2,200	1.90 U	52.5	13.4
SED-X-3-0-0.5	0-0.5	09/29/06	0.000600 J	20,600 J	5.40 UJ	46.1 J	167. J	1.30 UJ	1.50 J	2,670 J	2.70 UJ	110. J	14.7 J
SED-Y-1-0-0.5	0-0.5	09/29/06	0.00240 J	20,100 J	6.30 UJ	31.9 J	202. J	1.60 UJ	2.10 J	3,260 J	3.10 UJ	130. J	16.0 UJ
SED-Y-2-0.5-1.0	0.5-1	09/29/06		18,300 J	5.20 UJ	51.7 J	566. J	1.30 UJ	*14.3 J*	4,640 J	2.60 UJ	*399. J*	14.6 J
SED-Y-2-0-0.5	0-0.5	09/29/06		15,600 J	5.10 UJ	33.4 J	249. J	1.30 UJ	3.00 J	2,890 J	2.50 UJ	152. J	13.0 UJ
SED-Y-2-1.0-1.5	1-1.5	09/29/06		20,800 J	4.10 UJ	39.2	115.	1.20	3.50	2,220	2.00 U	97.2	13.6
SED-Y-2-1.5-2.0	1.5-2	09/29/06		21,900 J	3.70 UJ	25.4	64.8	1.10	0.930 U	3,690	1.90 U	44.0	13.0
SED-Y-3-0-0.5	0-0.5	09/29/06	0.00260 J	19,400 J	5.80 UJ	33.4 J	213. J	1.50 UJ	1.50 UJ	3,070 J	3.10 UJ	126. J	15.2 J
DUP	0-0.5	09/29/06	0.00220 J	18,300 J	4.80 UJ	26.2 J	121. J	1.20 UJ	1.20 UJ	2,250 J	2.50 UJ	81.2 J	12.4 J
SED-Z-1-0-0.5	0-0.5	09/29/06	0.000210 J	16,800 J	5.70 UJ	30.1 J	184. J	1.40 UJ	2.10 J	2,970 J	2.80 UJ	110. J	14.0 UJ
SED-Z-2-0.5-1.0	0.5-1	09/29/06		18,800 J	4.80 UJ	60.4 J	840. J	1.30 J	*22.2 J*	3,530 J	2.50 UJ	*424. J*	13.9 J
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.00270 J	14,300 J	6.20 UJ	33.0 J	199. J	1.60 UJ	2.80 J	3,300 J	3.10 UJ	142. J	16.0 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006		12,900 J	3.50 UJ	47.1	314.	0.870 U	7.80	4,560	1.80 U	235.	10.2
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.00210 J	16,900 J	4.90 UJ	26.7 J	137. J	1.20 UJ	1.40 J	14,000 J	2.40 UJ	82.5 J	12.0 UJ

APPENDIX N - ATTACHMENT 2-2a
DETECTED CONSTITUENTS IN SEDIMENT
METALS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Copper mg/kg	Iron mg/kg	Lead mg/kg	Magnesium mg/kg	Manganese mg/kg	Mercury mg/kg	Methyl Mercury mg/kg	Nickel mg/kg	Potassium mg/kg	Selenium mg/kg
Sediment ERL			34		47			0.15		21		
Sediment ERM			270		218			0.71		52		
SED-W-1-0-0.5	0-0.5	10/02/06	0.0000300 UJ	45,500 J	0.00000370 UJ	9,320 J	489. J	0.0000000800 UJ	0.00150	0.0000530 UJ	4,820 J	6.40 UJ
DUP	0-0.5	10/02/06	218. J	39,700 J	232. J	8,400 J	373. J	2.60 J	0.0101	35.5 J	4,310 J	2.20 UJ
SED-W-2-0.5-1.0	0.5-1	10/02/06							0.000300 B			
SED-W-2-0-0.5	0-0.5	10/02/06	548. J	42,600 J	403. J	9,190 J	384. J	11.3 J	0.000600 B	59.5 J	4,660 J	6.30 J
SED-W-2-1.0-1.5	1-1.5	10/02/06	104.	34,200 J	96.8 J	8,030 J	379. J	0.340 J	0.000100 U	32.5 J	4,340 J	3.70 U
SED-W-3-0-0.5	0-0.5	10/02/06	91.8 J	41,800 J	116. J	8,250 J	389. J	1.10 J	0.000200 U	44.3 J	4,420 J	4.90 UJ
SED-X-1-0-0.5	0-0.5	09/29/06	196. J	32,500 J	141. J	6,710 J	304. J	2.20 J	0.00700 J	30.9 J	3,280 J	4.80 UJ
SED-X-2-0.5-1.0	0.5-1	09/29/06	415. J	30,600	300. J	6,590	352.	8.10	0.000400 B	47.1	2,930 J	3.80 U
SED-X-2-0-0.5	0-0.5	09/29/06	628. J	39,700 J	402. J	8,340 J	362. J	14.7 J	0.00100 B	60.5 J	3,960 J	5.70 UJ
SED-X-2-1.0-1.5	1-1.5	09/29/06	56.8 J	34,300	76.1 J	7,790	349.	0.710	0.000300 B	31.3	3,880 J	4.00 U
SED-X-3-0-0.5	0-0.5	09/29/06	292. J	40,700 J	224. J	8,040 J	368. J	3.60 J	0.00540 J	41.2 J	4,120 J	5.40 UJ
SED-Y-1-0-0.5	0-0.5	09/29/06	318. J	42,300 J	230. J	8,630 J	392. J	3.00 J	0.00580 J	43.2 J	4,140 J	6.30 UJ
SED-Y-2-0.5-1.0	0.5-1	09/29/06	840. J	37,600 J	500. J	7,890 J	314. J	14.9 J	0.00110 UJ	66.9 J	3,590 J	5.20 UJ
SED-Y-2-0-0.5	0-0.5	09/29/06	361. J	34,800 J	266. J	6,980 J	325. J	5.00 J	0.00290 J	42.1 J	3,310 J	5.10 UJ
SED-Y-2-1.0-1.5	1-1.5	09/29/06	168. J	34,400	153. J	7,650	358.	16.0	0.000500 B	36.8	3,730 J	4.10 U
SED-Y-2-1.5-2.0	1.5-2	09/29/06	50.2 J	32,700	85.9 J	7,580	360.	0.460	0.000200 U	31.1	3,990 J	3.70 U
SED-Y-3-0-0.5	0-0.5	09/29/06	291. J	40,200 J	242. J	8,210 J	375. J	2.70 J	0.00790 J	45.4 J	3,990 J	6.50 J
DUP	0-0.5	09/29/06	167. J	35,300 J	137. J	7,260 J	412. J	2.50 J	0.00700 J	39.2 J	3,650 J	4.80 UJ
SED-Z-1-0-0.5	0-0.5	09/29/06	270. J	39,400 J	208. J	7,460 J	352. J	2.90 J	0.00700 J	38.8 J	3,470 J	5.70 UJ
SED-Z-2-0.5-1.0	0.5-1	09/29/06	1,120 J	33,400 J	443. J	7,050 J	271. J	30.4 J	0.000600 B	82.3 J	3,520 J	4.80 UJ
SED-Z-2-0-0.5	0-0.5	9/29/2006	325. J	38,900 J	276. J	7,430 J	335. J	4.60 J	0.00120 UJ	45.2 J	3,060 J	6.20 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	446. J	28,900	293. J	5,850	334.	10.5	0.000300 B	42.7	2,650 J	3.50 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	199. J	33,800 J	155. J	6,800 J	336. J	2.20 J	0.00860 J	34.1 J	3,410 J	4.90 UJ

APPENDIX N - ATTACHMENT 2-2a
DETECTED CONSTITUENTS IN SEDIMENT
METALS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Sem/Avs mg/kg	Silver mg/kg	Sodium mg/kg	Thallium mg/kg	Vanadium mg/kg	Zinc mg/kg
Sediment ERL				1				150
Sediment ERM				3.7				410
SED-W-1-0-0.5	0-0.5	10/02/06	0.00 UJ	3.20 UJ	12,800 J	3.20 UJ	56.3 J	0.0000230 UJ
DUP	0-0.5	10/02/06	0.0206 J	1.10 UJ	15,600 J	1.10 UJ	46.0 J	252. J
SED-W-2-0.5-1.0	0.5-1	10/02/06						
SED-W-2-0-0.5	0-0.5	10/02/06		*5.70 J*	14,900 J	3.10 UJ	63.0 J	*554. J*
SED-W-2-1.0-1.5	1-1.5	10/02/06		1.80 U	6,270 J	1.80 U	53.0	180. J
SED-W-3-0-0.5	0-0.5	10/02/06	0.00 UJ	2.40 UJ	7,570 J	2.40 UJ	56.2 J	226. J
SED-X-1-0-0.5	0-0.5	09/29/06	0.00191 J	2.40 U	9,090 J	2.40 UJ	38.8 J	222. J
SED-X-2-0.5-1.0	0.5-1	09/29/06		3.20	6,010 J	1.90 U	57.2	*455.*
SED-X-2-0-0.5	0-0.5	09/29/06		*5.00 J*	10,300 J	2.80 UJ	65.2 J	*645. J*
SED-X-2-1.0-1.5	1-1.5	09/29/06		2.00 U	6,200 J	2.00 U	47.9	135.
SED-X-3-0-0.5	0-0.5	09/29/06	0.00641 J	2.70 UJ	10,100 J	2.70 UJ	50.1 J	325. J
SED-Y-1-0-0.5	0-0.5	09/29/06	0.00208 J	3.20 UJ	11,100 J	3.20 UJ	51.2 J	348. J
SED-Y-2-0.5-1.0	0.5-1	09/29/06		*7.50 J*	9,920 J	2.60 UJ	72.5 J	*821. J*
SED-Y-2-0-0.5	0-0.5	09/29/06		2.60 UJ	9,460 J	2.60 UJ	43.3 J	361. J
SED-Y-2-1.0-1.5	1-1.5	09/29/06		2.00 U	6,330 J	2.00 U	53.8	249.
SED-Y-2-1.5-2.0	1.5-2	09/29/06		1.90 U	6,650 J	1.90 U	48.0	131.
SED-Y-3-0-0.5	0-0.5	09/29/06	0.000942 J	2.90 UJ	11,200 J	2.90 UJ	49.5 J	300. J
DUP	0-0.5	09/29/06	0.00103 J	2.40 UJ	8,920 J	2.40 UJ	44.6 J	205. J
SED-Z-1-0-0.5	0-0.5	09/29/06	0.00567 J	2.90 UJ	10,400 J	2.90 UJ	46.0 J	297. J
SED-Z-2-0.5-1.0	0.5-1	09/29/06		*7.50 J*	8,160 J	2.40 UJ	94.1 J	*988. J*
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.00286 J	3.10 UJ	12,000 J	3.10 UJ	45.9 J	343. J
SED-Z-2-1.0-1.5	1-1.5	9/29/2006		2.80	5,670 J	1.70 U	51.2	*439.*
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.00258 J	2.40 UJ	8,870 J	2.40 UJ	40.5 J	215. J

APPENDIX N - ATTACHMENT 2-2b
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Aldrin mg/kg	Alpha-BHC mg/kg	Alpha-Chlordane mg/kg	Beta-BHC mg/kg	Bhc, Delta Isomer mg/kg	Bhc, Gamma Isomer mg/kg	Dieldrin mg/kg	Endosulfan I mg/kg	Endosulfan II mg/kg
Sediment ERL											
Sediment ERM											
SED-W-1-0-0.5	0-0.5	10/2/2006	0.000930 UJ	0.000780 UJ	0.00110 UJ	0.000920 UJ	0.00160 UJ	0.000850 UJ	0.00110 UJ	0.00110 UJ	0.00110 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.000990 UJ	0.000830 UJ	0.00120 UJ	0.000970 UJ	0.00170 UJ	0.000900 UJ	0.00110 UJ	0.00120 UJ	0.00120 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.0120 UJ	0.0100 UJ	0.0150 UJ	0.0120 UJ	0.0200 UJ	0.0110 UJ	0.0140 UJ	0.0140 UJ	0.0140 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.000540 U	0.000460 U	0.000670 U	0.000540 U	0.000910 U	0.000500 U	0.000620 U	0.000660 U	0.000650 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.000720 UJ	0.000600 UJ	0.000880 UJ	0.000710 UJ	0.00120 UJ	0.000660 UJ	0.000820 UJ	0.000870 UJ	0.000860 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.000560 U	0.000470 U	0.000690 U	0.000550 U	0.000940 U	0.000510 U	0.0173 NJ	0.000680 U	0.000680 U
SED-X-2-0-0.5	0-0.5	9/29/2006	0.000810 UJ	0.000690 UJ	0.00100 UJ	0.000800 UJ	0.00140 UJ	0.000740 UJ	0.00920 NJ	0.000990 UJ	0.000980 UJ
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.000560 U	0.000470 U	0.000690 U	0.000560 U	0.000940 U	0.000520 U	0.000650 U	0.000690 U	0.000680 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.00360 UJ	0.00360 UJ	0.00360 UJ	0.00360 UJ	0.00360 UJ	0.00360 UJ	0.00360 UJ	0.00360 UJ	0.00360 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.00410 UJ	0.00410 UJ	0.00410 UJ	0.00410 UJ	0.00410 UJ	0.00410 UJ	0.00410 UJ	0.00410 UJ	0.00410 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.000740 UJ	0.000630 UJ	0.000910 UJ	0.000730 UJ	0.00120 UJ	0.000680 UJ	0.0145 UJ	0.000900 UJ	0.000890 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.000750 UJ	0.000630 UJ	0.000910 UJ	0.000740 UJ	0.00120 UJ	0.000680 UJ	0.000860 UJ	0.000910 UJ	0.000900 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.000580 U	0.000490 U	0.000720 U	0.000580 U	0.000980 U	0.000530 U	0.00360 U	0.000710 U	0.000700 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.000560 U	0.000470 U	0.000680 U	0.000550 U	0.000930 U	0.000510 U	0.000640 U	0.000680 U	0.000670 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.00400 UJ	0.00400 UJ	0.00400 UJ	0.00400 UJ	0.00400 UJ	0.00400 UJ	0.00400 UJ	0.00400 UJ	0.00400 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.00330 UJ	0.00330 UJ	0.00330 UJ	0.00330 UJ	0.00330 UJ	0.00330 UJ	0.00330 UJ	0.00330 UJ	0.00330 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.000710 UJ	0.000600 UJ	0.00580 J	0.000700 UJ	0.00120 UJ	0.000650 UJ	0.0193 UJ	0.000870 UJ	0.000860 UJ
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.000920 UJ	0.000770 UJ	0.00110 UJ	0.000900 UJ	0.00150 UJ	0.000840 UJ	0.00500 J	0.00110 UJ	0.00110 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.000520 U	0.000440 U	0.000640 U	0.000520 U	0.000870 U	0.000480 U	0.0106 NJ	0.000640 U	0.000630 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ

APPENDIX N - ATTACHMENT 2-2b
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Endosulfan Sulfate mg/kg	Endrin Aldehyde mg/kg	Endrin Ketone mg/kg	Endrin mg/kg	Gamma-Chlordane mg/kg	Heptachlor Epoxide mg/kg	Heptachlor mg/kg	Methoxychlor mg/kg
Sediment ERL										
Sediment ERM										
SED-W-1-0-0.5	0-0.5	10/2/2006	0.00110 UJ	0.00100 UJ	0.00120 UJ	0.00110 UJ	0.00110 UJ	0.00120 UJ	0.00110 UJ	0.00140 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.00120 UJ	0.00110 UJ	0.00120 UJ	0.00110 UJ	0.00120 UJ	0.00120 UJ	0.00120 UJ	0.00150 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.0150 UJ	0.0130 UJ	0.0150 UJ	0.0130 UJ	0.0150 UJ	0.0150 UJ	0.0140 UJ	0.0180 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.000670 U	0.000580 U	0.000680 U	0.000620 U	0.000660 U	0.000680 U	0.000640 U	0.000820 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.000890 UJ	0.000770 UJ	0.000890 UJ	0.000810 UJ	0.000880 UJ	0.000900 UJ	0.000850 UJ	0.00110 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.00320 UJ	0.00320 UJ	0.00800 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00800 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.000690 U	0.000600 U	0.000700 U	0.000640 U	0.000690 U	0.000710 U	0.000660 U	0.000850 U
SED-X-2-0-0.5	0-0.5	9/29/2006	0.00100 UJ	0.000870 UJ	0.00100 UJ	0.000920 UJ	0.00100 UJ	0.00100 UJ	0.000960 UJ	0.00120 UJ
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.000700 U	0.000600 U	0.000700 U	0.000640 U	0.000690 U	0.000710 U	0.000670 U	0.000850 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.00360 UJ	0.00360 UJ	0.00900 UJ	0.00360 UJ	0.00360 UJ	0.00360 UJ	0.00360 UJ	0.00900 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.00410 UJ	0.00410 UJ	0.0100 UJ	0.00410 UJ	0.00410 UJ	0.00410 UJ	0.00410 UJ	0.0100 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.000920 UJ	0.000800 UJ	0.000930 UJ	0.000840 UJ	0.000910 UJ	0.000930 UJ	0.000880 UJ	0.00110 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.000920 UJ	0.000800 UJ	0.000930 UJ	0.000840 UJ	0.000910 UJ	0.000940 UJ	0.000880 UJ	0.00110 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.000720 U	0.000630 U	0.000730 U	0.000660 U	0.000710 U	0.000730 U	0.000690 U	0.000880 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.000690 U	0.000600 U	0.000690 U	0.000630 U	0.000680 U	0.000700 U	0.000660 U	0.000840 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.00400 UJ	0.00400 UJ	0.0100 UJ	0.00400 UJ	0.00400 UJ	0.00400 UJ	0.00400 UJ	0.0100 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.00330 UJ	0.00330 UJ	0.00830 UJ	0.00330 UJ	0.00330 UJ	0.00330 UJ	0.00330 UJ	0.00830 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.00380 UJ	0.00380 UJ	0.00940 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00380 UJ	0.00940 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.000880 UJ	0.000760 UJ	0.000890 UJ	0.000810 UJ	0.00770 UJ	0.000900 UJ	0.000840 UJ	0.00110 UJ
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.00110 UJ	0.000980 UJ	0.00110 UJ	0.00100 UJ	0.00110 UJ	0.00110 UJ	0.00110 UJ	0.00140 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.000640 U	0.000560 U	0.000650 U	0.000590 U	0.000640 U	0.000660 U	0.000620 U	0.000790 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.00320 UJ	0.00320 UJ	0.00790 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00320 UJ	0.00790 UJ

APPENDIX N - ATTACHMENT 2-2b
DETECTED CONSTITUENTS IN SEDIMENT
PESTICIDES
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	P,P'-DDD mg/kg	P,P'-DDE mg/kg	P,P'-DDT mg/kg	Toxaphene mg/kg
Sediment ERL						
Sediment ERM						
SED-W-1-0-0.5	0-0.5	10/2/2006	0.131 J	0.0562 J	0.0313 J	0.0200 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.121 J	0.0628 J	0.435 J	0.0210 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.253 J	0.295 J	0.0170 UJ	0.260 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.000590 U	0.000610 U	0.000760 U	0.0120 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.000790 UJ	0.000810 UJ	0.0116 J	0.0160 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.0710 J	0.0351 J	0.00610 NJ	0.0400 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.0904	0.156 U	0.0185 NJ	0.0120 U
SED-X-2-0-0.5	0-0.5	9/29/2006	0.122 J	0.0921 NJ	0.00110 UJ	0.0180 UJ
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.000620 U	0.000640 U	0.000780 U	0.0120 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.0705 J	0.0308 J	0.00380 J	0.0450 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.0792 J	0.0372 J	0.0584 J	0.0510 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.0705 J	0.105 UJ	0.00100 UJ	0.0160 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.0938 J	0.0447 NJ	0.00860 J	0.0160 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.0146	0.0410 U	0.000810 U	0.0130 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.00320	0.00420 U	0.000770 U	0.0120 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.152 J	0.0586 J	0.0208 J	0.0500 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.0794 J	0.0291 J	0.00480 J	0.0410 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.0822 J	0.0358 J	0.0236 J	0.0470 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.128 J	0.292 UJ	0.0150 UJ	0.0150 UJ
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.247 J	0.0943 J	0.0240 J	0.0200 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.161	0.188 U	0.0290 NJ	0.0110 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.106 J	0.0432 J	0.00540 J	0.0400 UJ

APPENDIX N - ATTACHMENT 2-2c
DETECTED CONSTITUENTS IN SEDIMENT
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Aroclor 1016 mg/kg	Aroclor 1221 mg/kg	Aroclor 1232 mg/kg	Aroclor 1242 mg/kg	Aroclor 1248 mg/kg	Aroclor 1254 mg/kg	Aroclor 1260 mg/kg
Sediment ERM			0.023	0.023	0.023	0.023	0.023	0.023	0.023
Sediment ERM			0.18	0.18	0.18	0.18	0.18	0.18	0.18
SED-W-1-0-0.5	0-0.5	10/2/2006	0.0200 UJ	0.0640 UJ	0.0580 UJ	0.0340 UJ	0.0370 UJ	0.0500 UJ	0.0210 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.0210 UJ	0.0670 UJ	0.0610 UJ	0.0360 UJ	0.0390 UJ	0.0530 UJ	0.0230 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.260 UJ	0.810 UJ	0.730 UJ	0.430 UJ	0.470 UJ	0.640 UJ	0.270 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.0120 U	0.0370 U	0.0340 U	0.0200 U	0.0210 U	0.0290 U	0.0120 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.0160 UJ	0.0490 UJ	0.0440 UJ	0.0260 UJ	0.0280 UJ	0.0390 UJ	0.0160 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.0800 UJ	0.0800 UJ	0.0800 UJ	0.0800 UJ	0.0800 UJ	0.0800 UJ	0.0800 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.0120 U	0.0380 U	0.0350 U	0.0200 U	*0.579*	0.0300 U	0.127
SED-X-2-0-0.5	0-0.5	9/29/2006	0.0180 UJ	0.0560 UJ	0.0500 UJ	0.0290 UJ	*0.443 J*	0.0440 UJ	0.0190 UJ
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.0120 U	0.0390 U	0.0350 U	0.0200 U	0.0220 U	0.0300 U	0.0130 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.0900 UJ	0.0900 UJ	0.0900 UJ	0.0900 UJ	0.0900 UJ	0.0900 UJ	0.0900 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.100 UJ	0.100 UJ	0.100 UJ	0.100 UJ	0.100 UJ	0.100 UJ	0.100 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.0160 UJ	0.0510 UJ	0.0460 UJ	0.0270 UJ	*0.885 J*	0.0400 UJ	0.159 J
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.0160 UJ	0.0510 UJ	0.0460 UJ	0.0270 UJ	0.0290 UJ	0.0400 UJ	0.0170 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.0130 U	0.0400 U	0.0360 U	0.0210 U	0.156	0.0310 U	0.0130 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.0120 U	0.0380 U	0.0350 U	0.0200 U	0.0220 U	0.0300 U	0.0130 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.100 UJ	0.100 UJ	0.100 UJ	0.100 UJ	0.100 UJ	0.100 UJ	0.100 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.0830 UJ	0.0830 UJ	0.0830 UJ	0.0830 UJ	0.0830 UJ	0.0830 UJ	0.0830 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.0940 UJ	0.0940 UJ	0.0940 UJ	0.0940 UJ	0.0940 UJ	0.0940 UJ	0.0940 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.0150 UJ	0.0490 UJ	0.0440 UJ	0.0260 UJ	*1.02 J*	0.0380 UJ	0.174 J
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.0200 UJ	0.0620 UJ	0.0560 UJ	0.0330 UJ	0.0360 UJ	0.0490 UJ	0.0210 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.0110 U	0.0360 U	0.0320 U	0.0190 U	*0.464*	0.0280 U	0.112
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.0790 UJ	0.0790 UJ	0.0790 UJ	0.0790 UJ	0.0790 UJ	0.0790 UJ	0.0790 UJ

APPENDIX N - ATTACHMENT 2-2d
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	1,1,1-Trichloroethane mg/kg	1,1,2,2-Tetrachloroethane mg/kg	1,1,2-Trichloroethane mg/kg	1,1-Dichloroethane mg/kg	1,1-Dichloroethene mg/kg	1,2,4-Trichlorobenzene mg/kg	1,2,4-Trimethylbenzene mg/kg	1,2-Dibromoethane mg/kg	1,2-Dichlorobenzene mg/kg
Sediment ERL											
Sediment ERM											
SED-W-1-0-0.5	0-0.5	10/2/2006	0.00180 UJ	0.00180 UJ	0.00170 UJ	0.00150 UJ	0.00210 UJ	0.00110 UJ		0.00170 UJ	0.00140 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.00200 UJ	0.00190 UJ	0.00180 UJ	0.00160 UJ	0.00230 UJ	0.00120 UJ		0.00190 UJ	0.00150 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.00190 UJ	0.00180 UJ	0.00170 UJ	0.00150 UJ	0.00220 UJ	0.00110 UJ		0.00180 UJ	0.00140 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.00110 U	0.00110 U	0.00100 U	0.000930 U	0.00130 U	0.000680 U		0.00110 U	0.000880 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.00150 UJ	0.00150 UJ	0.00140 UJ	0.00120 UJ	0.00180 UJ	0.000910 UJ		0.00150 UJ	0.00120 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.00140 UJ	0.00130 UJ	0.00130 UJ	0.00110 UJ	0.00160 UJ	0.000820 UJ		0.00130 UJ	0.00110 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.00120 U	0.00110 U	0.00110 U	0.000950 U	0.00140 U	0.000690 U		0.00110 U	0.000900 U
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.00110 U	0.00110 U	0.00100 U	0.000900 U	0.00130 U	0.000650 U		0.00110 U	0.000850 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.00170 UJ	0.00160 UJ	0.00150 UJ	0.00140 UJ	0.00190 UJ	0.000990 UJ		0.00160 UJ	0.00130 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.00190 UJ	0.00190 UJ	0.00170 UJ	0.00150 UJ	0.00220 UJ	0.00110 UJ		0.00180 UJ	0.00150 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.00150 UJ	0.00150 UJ	0.00140 UJ	0.00130 UJ	0.00180 UJ	0.000920 UJ	0.0920 JN	0.00150 UJ	0.00120 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.00160 UJ	0.00150 UJ	0.00140 UJ	0.00130 UJ	0.00180 UJ	0.000930 UJ		0.00150 UJ	0.00120 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.00120 U	0.00120 U	0.00110 U	0.00100 U	0.00140 U	0.000740 U		0.00120 U	0.000960 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.00130 U	0.00120 U	0.00110 U	0.00100 U	0.00150 U	0.000750 U		0.00120 U	0.000970 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.00190 UJ	0.00180 UJ	0.00170 UJ	0.00150 UJ	0.00220 UJ	0.00110 UJ		0.00180 UJ	0.00140 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.00140 UJ	0.00140 UJ	0.00130 UJ	0.00120 UJ	0.00170 UJ	0.000850 UJ		0.00140 UJ	0.00110 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.00180 UJ	0.00170 UJ	0.00160 UJ	0.00140 UJ	0.00210 UJ	0.00110 UJ		0.00170 UJ	0.00140 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.00160 UJ	0.00150 UJ	0.00140 UJ	0.00130 UJ	0.00180 UJ	0.000940 UJ		0.00150 UJ	0.00120 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.00100 U	0.000980 U	0.000910 U	0.000810 U	0.00120 U	0.000590 U		0.000960 U	0.000770 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.00150 UJ	0.00140 UJ	0.00130 UJ	0.00120 UJ	0.00170 UJ	0.000880 UJ		0.00140 UJ	0.00110 UJ

APPENDIX N - ATTACHMENT 2-2d
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	1,2-Dichloroethane mg/kg	1,2-Dichloropropane mg/kg	1,3-Dichlorobenzene mg/kg	1,4-Dichlorobenzene mg/kg	2-Butanone (MEK) mg/kg	2-Hexanone mg/kg	4-Methyl-2-Pentanone (MIBK) mg/kg	Acetic Acid, Methyl Ester mg/kg	Acetone mg/kg
Sediment ERL											
Sediment ERM											
SED-W-1-0-0.5	0-0.5	10/2/2006	0.00170 UJ	0.00170 UJ	0.00150 UJ	0.00140 UJ	0.00840 UJ	0.00420 UJ	0.00620 UJ	0.00440 UJ	0.00880 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.00180 UJ	0.00180 UJ	0.00160 UJ	0.00150 UJ	0.00900 UJ	0.00450 UJ	0.00660 UJ	0.00470 UJ	0.00950 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.00170 UJ	0.00180 UJ	0.00150 UJ	0.00150 UJ	0.00870 UJ	0.00430 UJ	0.00630 UJ	0.00450 UJ	0.0447 J
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.00110 U	0.00110 U	0.000950 U	0.000890 U	0.00530 U	0.00260 U	0.00390 U	0.00270 U	0.00550 UJ
SED-W-3-0-0.5	0-0.5	10/2/2006	0.00140 UJ	0.00140 UJ	0.00130 UJ	0.00120 UJ	0.00710 UJ	0.00350 UJ	0.00520 UJ	0.00370 UJ	0.00740 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.00130 UJ	0.00130 UJ	0.00110 UJ	0.00110 UJ	0.00640 UJ	0.00320 UJ	0.00470 UJ	0.00330 UJ	0.0206 J
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.00110 U	0.00110 U	0.000970 U	0.000910 U	0.00540 U	0.00270 U	0.00390 U	0.00280 U	0.0723 J
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.00100 U	0.00100 U	0.000910 U	0.000860 U	0.00510 U	0.00250 U	0.00370 U	0.00260 U	0.00540 UJ
SED-X-3-0-0.5	0-0.5	9/29/2006	0.00150 UJ	0.00160 UJ	0.00140 UJ	0.00130 UJ	0.00770 UJ	0.00390 UJ	0.00560 UJ	0.00400 UJ	0.00810 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.00180 UJ	0.00180 UJ	0.00160 UJ	0.00150 UJ	0.00880 UJ	0.00440 UJ	0.00640 UJ	0.00450 UJ	0.00920 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.00140 UJ	0.00140 UJ	0.00130 UJ	0.00120 UJ	0.00710 UJ	0.00360 UJ	0.00520 UJ	0.00370 UJ	0.00750 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.00140 UJ	0.00150 UJ	0.00130 UJ	0.00120 UJ	0.00720 UJ	0.00360 UJ	0.00530 UJ	0.00370 UJ	0.00760 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.00110 U	0.00120 U	0.00100 U	0.000970 U	0.00570 U	0.00290 U	0.00420 U	0.00300 U	0.0158 J
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.00120 U	0.00120 U	0.00100 U	0.000980 U	0.00580 U	0.00290 U	0.00420 U	0.00300 U	0.00610 UJ
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.00170 UJ	0.00180 UJ	0.00160 UJ	0.00150 UJ	0.00870 UJ	0.00430 UJ	0.00630 UJ	0.00450 UJ	0.0274 J
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.00130 UJ	0.00130 UJ	0.00120 UJ	0.00110 UJ	0.00660 UJ	0.00330 UJ	0.00480 UJ	0.00340 UJ	0.00690 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.00160 UJ	0.00170 UJ	0.00150 UJ	0.00140 UJ	0.00820 UJ	0.00410 UJ	0.00600 UJ	0.00420 UJ	0.0362 J
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.00150 UJ	0.00150 UJ	0.00130 UJ	0.00120 UJ	0.0230 J	0.00360 UJ	0.00530 UJ	0.00380 UJ	0.202 J
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.000920 U	0.000940 U	0.000830 U	0.000780 U	0.00460 U	0.00230 U	0.00340 U	0.00240 U	0.0936 J
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.00140 UJ	0.00140 UJ	0.00120 UJ	0.00120 UJ	0.00690 UJ	0.00340 UJ	0.00500 UJ	0.00350 UJ	0.0273 J

APPENDIX N - ATTACHMENT 2-2d
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Benzene mg/kg	Bromodichloro-methane mg/kg	Bromoform mg/kg	Bromomethane mg/kg	Carbon Disulfide mg/kg	Carbon Tetrachloride mg/kg	Chlorobenzene mg/kg	Chloro-dibromomethane mg/kg	Chloroethane mg/kg
Sediment ERL											
Sediment ERM											
SED-W-1-0-0.5	0-0.5	10/2/2006	0.00150 UJ	0.00140 UJ	0.00130 UJ	0.00110 UJ	0.00400 J	0.00290 UJ	0.00130 UJ	0.00170 UJ	0.00540 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.00160 UJ	0.00150 UJ	0.00140 UJ	0.00120 UJ	0.00530 J	0.00310 UJ	0.00140 UJ	0.00180 UJ	0.00580 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.00150 UJ	0.00140 UJ	0.00140 UJ	0.00120 UJ	0.0304 J	0.00300 UJ	0.00280 J	0.00170 UJ	0.00550 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.000930 U	0.000880 U	0.000840 U	0.000720 U	0.00620 J	0.00180 U	0.000840 U	0.00110 U	0.00340 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.00120 UJ	0.00120 UJ	0.00110 UJ	0.000960 UJ	0.00410 J	0.00250 UJ	0.00110 UJ	0.00140 UJ	0.00450 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.00110 UJ	0.00110 UJ	0.00100 UJ	0.000870 UJ	0.00290 J	0.00220 UJ	0.00100 UJ	0.00130 UJ	0.00410 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.000950 U	0.000900 U	0.000860 U	0.000730 U	0.0124	0.00190 U	0.00320 J	0.00110 U	0.00340 U
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.000900 U	0.000850 U	0.000810 U	0.000690 U	0.00560 J	0.00180 U	0.000810 U	0.00100 U	0.00330 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.00140 UJ	0.00130 UJ	0.00120 UJ	0.00100 UJ	0.00360 J	0.00270 UJ	0.00120 UJ	0.00160 UJ	0.00490 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.00150 UJ	0.00150 UJ	0.00140 UJ	0.00120 UJ	0.00520 J	0.00310 UJ	0.00140 UJ	0.00180 UJ	0.00560 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.00180 J	0.00120 UJ	0.00110 UJ	0.000970 UJ	0.0141 J	0.00250 UJ	0.00300 J	0.00140 UJ	0.00460 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.00130 UJ	0.00120 UJ	0.00110 UJ	0.000980 UJ	0.00780 J	0.00250 UJ	0.00110 UJ	0.00150 UJ	0.00460 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.00100 U	0.000960 U	0.000910 U	0.000770 U	0.00860 J	0.00200 U	0.00200 J	0.00120 U	0.00370 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.00100 U	0.000970 U	0.000930 U	0.000790 U	0.00370 J	0.00200 U	0.000920 U	0.00120 U	0.00370 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.00150 UJ	0.00150 UJ	0.00140 UJ	0.00120 UJ	0.00480 J	0.00300 UJ	0.00140 UJ	0.00170 UJ	0.00550 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.00120 UJ	0.00110 UJ	0.00100 UJ	0.000890 UJ	0.00310 J	0.00230 UJ	0.00100 UJ	0.00130 UJ	0.00420 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.00140 UJ	0.00140 UJ	0.00130 UJ	0.00110 UJ	0.00260 J	0.00290 UJ	0.00130 UJ	0.00170 UJ	0.00520 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.00130 UJ	0.00120 UJ	0.00120 UJ	0.000990 UJ	0.0128 J	0.00250 UJ	0.00260 J	0.00150 UJ	0.00470 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.000810 U	0.000780 U	0.000740 U	0.000630 U	0.00620 J	0.00160 U	0.000740 U	0.000930 U	0.00300 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.00120 UJ	0.00110 UJ	0.00110 UJ	0.000930 UJ	0.00360 J	0.00240 UJ	0.00110 UJ	0.00140 UJ	0.00440 UJ

APPENDIX N - ATTACHMENT 2-2d
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Chloroform mg/kg	Chloromethane mg/kg	Cis-1,2-Dichloroethene mg/kg	Cis-1,3-Dichloropropene mg/kg	Cyclohexane mg/kg	DBCP mg/kg	Dichloro-difluoromethane mg/kg	Ethylbenzene mg/kg	Isopropylbenzene mg/kg
Sediment ERL											
Sediment ERM											
SED-W-1-0-0.5	0-0.5	10/2/2006	0.00180 UJ	0.00140 UJ	0.00210 UJ	0.00130 UJ	0.00400 UJ	0.00660 UJ	0.00250 UJ	0.00140 UJ	0.00140 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.00190 UJ	0.00150 UJ	0.00220 UJ	0.00140 UJ	0.00420 UJ	0.00710 UJ	0.00260 UJ	0.00150 UJ	0.00150 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.00180 UJ	0.00150 UJ	0.00210 UJ	0.00130 UJ	0.00410 UJ	0.00680 UJ	0.00250 UJ	0.00140 UJ	0.00150 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.00110 U	0.000890 U	0.00130 U	0.000800 U	0.00250 U	0.00420 U	0.00150 U	0.000870 U	0.000900 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.00150 UJ	0.00120 UJ	0.00170 UJ	0.00110 UJ	0.00330 UJ	0.00560 UJ	0.00210 UJ	0.00120 UJ	0.00120 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.00140 UJ	0.00110 UJ	0.00160 UJ	0.000970 UJ	0.00300 UJ	0.00500 UJ	0.00190 UJ	0.00110 UJ	0.00110 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.00120 U	0.000910 U	0.00130 U	0.000820 U	0.00250 U	0.00430 U	0.00160 U	0.00200	0.000920 U
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.00110 U	0.000860 U	0.00130 U	0.000770 U	0.00240 U	0.00400 U	0.00150 U	0.000840 U	0.000870 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.00170 UJ	0.00130 UJ	0.00190 UJ	0.00120 UJ	0.00360 UJ	0.00610 UJ	0.00230 UJ	0.00130 UJ	0.00130 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.00190 UJ	0.00150 UJ	0.00220 UJ	0.00130 UJ	0.00410 UJ	0.00690 UJ	0.00260 UJ	0.00150 UJ	0.00150 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.00150 UJ	0.00120 UJ	0.00180 UJ	0.00110 UJ	0.00330 UJ	0.00560 UJ	0.00210 UJ	0.00230 J	0.00120 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.00150 UJ	0.00120 UJ	0.00180 UJ	0.00110 UJ	0.00340 UJ	0.00570 UJ	0.00210 UJ	0.00120 UJ	0.00120 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.00120 U	0.000970 U	0.00140 U	0.000870 U	0.00270 U	0.00450 U	0.00170 U	0.000950 U	0.000980 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.00120 U	0.000980 U	0.00140 U	0.000880 U	0.00270 U	0.00460 U	0.00170 U	0.000960 U	0.000990 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.00190 UJ	0.00150 UJ	0.00210 UJ	0.00130 UJ	0.00410 UJ	0.00680 UJ	0.00250 UJ	0.00140 UJ	0.00150 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.00140 UJ	0.00110 UJ	0.00160 UJ	0.00100 UJ	0.00310 UJ	0.00520 UJ	0.00190 UJ	0.00110 UJ	0.00110 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.00180 UJ	0.00140 UJ	0.00200 UJ	0.00120 UJ	0.00390 UJ	0.00650 UJ	0.00240 UJ	0.00140 UJ	0.00140 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.00160 UJ	0.00120 UJ	0.00180 UJ	0.00110 UJ	0.00340 UJ	0.00580 UJ	0.00210 UJ	0.00390 J	0.00120 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.000990 U	0.000780 U	0.00110 U	0.000700 U	0.00220 U	0.00370 U	0.00130 U	0.00120 J	0.000790 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.00150 UJ	0.00120 UJ	0.00170 UJ	0.00100 UJ	0.00320 UJ	0.00540 UJ	0.00200 UJ	0.00110 UJ	0.00120 UJ

APPENDIX N - ATTACHMENT 2-2d
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	M,P-Xylene (sum Of Isomers) mg/kg	Methyl-cyclohexane mg/kg	Methylene Chloride mg/kg	O-xylene mg/kg	Styrene mg/kg	Tert-Butyl Methyl Ether mg/kg	Tetrachloroethylene(PERC) mg/kg	Toluene mg/kg	Trans-1,2-Dichloroethene mg/kg
Sediment ERL											
Sediment ERM											
SED-W-1-0-0.5	0-0.5	10/2/2006	0.00270 UJ	0.00200 UJ	0.00210 UJ	0.00150 UJ	0.00100 UJ	0.00170 UJ	0.00250 UJ	0.00170 UJ	0.00210 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.00290 UJ	0.00210 UJ	0.00230 UJ	0.00160 UJ	0.00110 UJ	0.00190 UJ	0.00270 UJ	0.00180 UJ	0.00230 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.00280 UJ	0.00200 UJ	0.00220 UJ	0.00160 UJ	0.00100 UJ	0.00180 UJ	0.00260 UJ	0.00170 UJ	0.00220 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.00170 U	0.00120 U	0.00130 U	0.000960 U	0.000630 U	0.00110 U	0.00160 U	0.00110 U	0.00130 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.00230 UJ	0.00170 UJ	0.00180 UJ	0.00130 UJ	0.000850 UJ	0.00150 UJ	0.00210 UJ	0.00140 UJ	0.00180 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.00210 UJ	0.00150 UJ	0.00160 UJ	0.00120 UJ	0.000770 UJ	0.00130 UJ	0.00190 UJ	0.00130 UJ	0.00160 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.00260 J	0.00130 U	0.00390 J	0.00360	0.000650 U	0.00110 U	0.00160 U	0.00110 U	0.00140 U
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.00160 U	0.00120 U	0.00130 U	0.000920 U	0.000610 U	0.00100 U	0.00150 U	0.00100 U	0.00130 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.00250 UJ	0.00180 UJ	0.00200 UJ	0.00140 UJ	0.000930 UJ	0.00160 UJ	0.00230 UJ	0.00150 UJ	0.00190 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.00280 UJ	0.00210 UJ	0.00220 UJ	0.00160 UJ	0.00110 UJ	0.00180 UJ	0.00270 UJ	0.00170 UJ	0.00220 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.00990 J	0.00170 UJ	0.0102 J	0.0208 J	0.000860 UJ	0.00150 UJ	0.00220 UJ	0.00140 UJ	0.00180 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.00230 UJ	0.00170 UJ	0.00180 UJ	0.00130 UJ	0.000860 UJ	0.00150 UJ	0.00220 UJ	0.00140 UJ	0.00180 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.00690	0.00140 U	0.00150 U	0.0111	0.000690 U	0.00120 U	0.00170 U	0.00110 U	0.00140 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.00190 U	0.00140 U	0.00150 U	0.00160 J	0.000700 U	0.00120 U	0.00180 U	0.00120 U	0.00150 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.00280 UJ	0.00210 UJ	0.00220 UJ	0.00160 UJ	0.00100 UJ	0.00180 UJ	0.00260 UJ	0.00170 UJ	0.00220 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.00210 UJ	0.00160 UJ	0.00170 UJ	0.00120 UJ	0.000790 UJ	0.00140 UJ	0.00200 UJ	0.00130 UJ	0.00170 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.00260 UJ	0.00190 UJ	0.00210 UJ	0.00150 UJ	0.000990 UJ	0.00170 UJ	0.00250 UJ	0.00160 UJ	0.00210 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.00580 J	0.00170 UJ	0.0166 J	0.00760 J	0.000880 UJ	0.00150 UJ	0.00220 UJ	0.00150 UJ	0.00180 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.00330 J	0.00110 U	0.00120 U	0.00660	0.000560 U	0.000950 U	0.00140 U	0.000920 U	0.00120 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.00220 UJ	0.00160 UJ	0.00170 UJ	0.00120 UJ	0.000820 UJ	0.00140 UJ	0.00210 UJ	0.00140 UJ	0.00170 UJ

APPENDIX N - ATTACHMENT 2-2d
DETECTED CONSTITUENTS IN SEDIMENT
VOCs METHOD SW8260B
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Trans-1,3-Dichloropropene mg/kg	Trichloroethene (TCE) mg/kg	Trichloro-fluoromethane mg/kg	Trichloro-trifluoroethane mg/kg	Vinyl Chloride mg/kg	Xylenes, Mixed mg/kg
Sediment ERL								
Sediment ERM								
SED-W-1-0-0.5	0-0.5	10/2/2006	0.00120 UJ	0.00160 UJ	0.00230 UJ	0.00260 UJ	0.00200 UJ	0.00150 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.00130 UJ	0.00170 UJ	0.00240 UJ	0.00280 UJ	0.00210 UJ	0.00160 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.00120 UJ	0.00160 UJ	0.00230 UJ	0.00270 UJ	0.00200 UJ	0.00160 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.000760 U	0.00100 U	0.00140 U	0.00170 U	0.00130 U	0.000960 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.00100 UJ	0.00140 UJ	0.00190 UJ	0.00220 UJ	0.00170 UJ	0.00130 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.000920 UJ	0.00120 UJ	0.00170 UJ	0.00200 UJ	0.00150 UJ	0.00120 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.000780 U	0.00100 U	0.00140 U	0.00170 U	0.00130 U	0.00610
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.000730 U	0.000970 U	0.00140 U	0.00160 U	0.00120 U	0.000920 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.00110 UJ	0.00150 UJ	0.00210 UJ	0.00240 UJ	0.00180 UJ	0.00140 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.00130 UJ	0.00170 UJ	0.00230 UJ	0.00280 UJ	0.00210 UJ	0.00160 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.00100 UJ	0.00140 UJ	0.00190 UJ	0.00220 UJ	0.00170 UJ	0.0307 J
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.00100 UJ	0.00140 UJ	0.00190 UJ	0.00230 UJ	0.00170 UJ	0.00130 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.000820 U	0.00110 U	0.00150 U	0.00180 U	0.00140 U	0.0180
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.000840 U	0.00110 U	0.00160 U	0.00180 U	0.00140 U	0.00160 J
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.00120 UJ	0.00170 UJ	0.00230 UJ	0.00270 UJ	0.00210 UJ	0.00160 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.000950 UJ	0.00130 UJ	0.00180 UJ	0.00210 UJ	0.00160 UJ	0.00120 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.00120 UJ	0.00160 UJ	0.00220 UJ	0.00260 UJ	0.00190 UJ	0.00150 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.00100 UJ	0.00140 UJ	0.00190 UJ	0.00230 UJ	0.00170 UJ	0.0135 J
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.000670 U	0.000880 U	0.00120 U	0.00150 U	0.00110 U	0.00990
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.000990 UJ	0.00130 UJ	0.00180 UJ	0.00220 UJ	0.00160 UJ	0.00120 UJ

APPENDIX N - ATTACHMENT 2-2e
DETECTED CONSTITUENTS IN SEDIMENT
INORGANICS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Cyanide mg/kg
Sediment ERL			
Sediment ERM			
SED-W-1-0-0.5	'0-0.5	10/2/2006 12:08	0.680 UJ
SED-W-1-0-0.5-DUP	'0-0.5	10/2/2006 12:08	0.700 UJ
SED-W-2-0-0.5	'0-0.5	10/2/2006 12:36	0.730 UJ
SED-W-2-1.0-1.5	'1-1.5	10/2/2006 12:36	0.370 U
SED-W-3-0-0.5	'0-0.5	10/2/2006 10:52	0.530 UJ
SED-X-1-0-0.5	'0-0.5	9/29/2006 12:52	0.520 UJ
SED-X-2-0.5-1.0	'0.5-1	9/29/2006 13:27	0.520 J
SED-X-2-0-0.5	'0-0.5	9/29/2006 13:27	0.610 UJ
SED-X-2-1.0-1.5	'1-1.5	9/29/2006 13:27	0.420 UJ
SED-X-3-0-0.5	'0-0.5	9/29/2006 13:07	0.570 UJ
SED-Y-1-0-0.5	'0-0.5	9/29/2006 12:07	0.620 UJ
SED-Y-2-0.5-1.0	'0.5-1	9/29/2006 12:33	0.540 UJ
SED-Y-2-0-0.5	'0-0.5	9/29/2006 12:33	0.560 UJ
SED-Y-2-1.0-1.5	'1-1.5	9/29/2006 12:33	0.890 J
SED-Y-2-1.5-2.0	'1.5-2	9/29/2006 12:33	0.400 UJ
SED-Y-3-0-0.5	'0-0.5	9/29/2006 11:33	0.670 UJ
SED-Y-3-0-0.5-DUP	'0-0.5	9/29/2006 11:33	0.520 UJ
SED-Z-1-0-0.5	'0-0.5	9/29/2006 10:17	0.590 UJ
SED-Z-2-0.5-1.0	'0.5-1	9/29/2006 10:51	2.10 J
SED-Z-2-0-0.5	'0-0.5	9/29/2006 10:51	0.630 UJ
SED-Z-2-1.0-1.5	'1-1.5	9/29/2006 10:51	0.590 J
SED-Z-3-0-0.5	'0-0.5	9/29/2006 10:02	0.520 UJ

APPENDIX N - ATTACHMENT 2-2f
DETECTED CONSTITUENTS IN SEDIMENT
DIOXINS and FURANS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	1,2,3,4,6,7,8-HPCDD mg/kg	1,2,3,4,6,7,8-HPCDF mg/kg	1,2,3,4,7,8,9-HPCDF mg/kg	1,2,3,4,7,8-HXCDD mg/kg	1,2,3,4,7,8-HXCDF mg/kg	1,2,3,6,7,8-HXCDD mg/kg	1,2,3,6,7,8-HXCDF mg/kg	1,2,3,7,8,9-HXCDD mg/kg	1,2,3,7,8,9-HXCDF mg/kg
Sediment ERL											
Sediment ERM											
SED-W-1-0-0.5	0-0.5	10/2/2006	0.0000494	0.0000188	0.0000014 A	6.28E-07 A	0.00000393 A	0.00000245 A	0.00000194 A	0.00000158 A	0.000000665 A
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.0001610	0.00007230	0.000005430 A	0.000002660 A	0.000013700	0.000008030 A	0.000006320 A	0.000005500 A	0.000002450 A
SED-W-3-0-0.5	0-0.5	10/2/2006	0.0000146	0.0000017 A	0.00000085 UJ	0.00000027 A	0.0000004 A	0.00000046 A	0.00000030 A	0.00000049 A	0.00000085 UJ
SED-Y-3-0-0.5	'0-0.5	9/29/2006	0.0000708	0.0000333	0.00000246 A	0.000001120 A	0.0000070 A	0.00000387 A	0.00000323 A	0.00000248 A	0.00000119 A
SED-Y-3-0-0.5-DUP	'0-0.5	9/29/2006	0.0001520	0.0001030	0.00001870	0.00000192 A	0.000016	0.00000582 A	0.0000085 A	0.00000382 A	0.0000032 A

APPENDIX N - ATTACHMENT 2-2f
DETECTED CONSTITUENTS IN SEDIMENT
DIOXINS and FURANS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	1,2,3,7,8-PECDD mg/kg	1,2,3,7,8-PECDF mg/kg	2,3,4,6,7,8-HXCDF mg/kg	2,3,4,7,8-PECDF mg/kg	2,3,7,8-TCDF mg/kg	Tetrachlorodibenzo-P-Dioxin mg/kg	OCDD mg/kg	OCDF mg/kg	Total HPCDDS mg/kg
Sediment ERL											
Sediment ERM											
SED-W-1-0-0.5	0-0.5	10/2/2006	7.98E-07 A	0.0000015 A	0.0000018 A	0.00000267 A	0.0000037	0.00000507	0.000557	0.0000288	0.000163
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.000002210 A	0.000004980 Q A	0.000006190 A	0.000009350 A	0.00000875	0.000014800	0.002130	0.00012200	0.0004550
SED-W-3-0-0.5	0-0.5	10/2/2006	0.00000030 A	0.0000003 A	0.00000026 A	0.0000005 A	0.0000026	0.00000045 A	0.000517	0.0000027 A	0.000046
SED-Y-3-0-0.5	'0-0.5	9/29/2006	0.000001130 A	0.0000026 A	0.00000324 A	0.0000045 A	0.000005	0.000007900	0.000852	0.0000532	0.0002320
SED-Y-3-0-0.5-DUP	'0-0.5	9/29/2006	0.00000152 A	0.0000041 Q A	0.00000683 A	0.0000067 A	0.0000071	0.000012300	0.001700	0.0002810	0.0007600

APPENDIX N - ATTACHMENT 2-2f
DETECTED CONSTITUENTS IN SEDIMENT
DIOXINS and FURANS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Total HPCDFS mg/kg	Total HXCDDS mg/kg	Total HXCDFS mg/kg	Total PECDDS mg/kg	Total PECDFS mg/kg	Total TCDDS mg/kg	Total TCDFS mg/kg
Sediment ERL									
Sediment ERM									
SED-W-1-0-0.5	0-0.5	10/2/2006	0.0000345	0.0000333	0.000028	0.0000082	0.000031	0.0000161	0.000042
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.00012800	0.0001030	0.00009360	0.00002820	0.00012500	0.00004560	0.00013900
SED-W-3-0-0.5	0-0.5	10/2/2006	0.0000028	0.0000122	0.0000028	0.0000023	0.000003	0.0000007	0.000005
SED-Y-3-0-0.5	'0-0.5	9/29/2006	0.0000600	0.0000467	0.0000499	0.0000144	0.000058	0.0000241	0.000066
SED-Y-3-0-0.5-DUP	'0-0.5	9/29/2006	0.0001980	0.0000934	0.000106	0.00001970	0.000089	0.00003520	0.000099

APPENDIX N - ATTACHMENT 2-2g
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	1,1'-Biphenyl mg/kg	2,4,5-Trichlorophenol mg/kg	2,4,6-Trichlorophenol mg/kg	2,4-Dichlorophenol mg/kg	2,4-Dimethylphenol mg/kg	2,4-Dinitrophenol mg/kg	2,4-Dinitrotoluene mg/kg	2,6-Dinitrotoluene mg/kg
Sediment ERL										
Sediment ERM										
SED-W-1-0-0.5	0-0.5	10/2/2006	0.0510 UJ	0.160 UJ	0.0890 UJ	0.180 UJ	0.270 UJ	0.160 UJ	0.120 UJ	0.120 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.0540 UJ	0.170 UJ	0.0950 UJ	0.190 UJ	0.290 UJ	0.170 UJ	0.130 UJ	0.130 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.0520 UJ	0.160 UJ	0.0900 UJ	0.180 UJ	0.270 UJ	0.160 UJ	0.120 UJ	0.120 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.0300 U	0.0920 U	0.0520 U	0.100 U	0.160 U	0.0940 UJ	0.0720 U	0.0700 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.0400 UJ	0.120 UJ	0.0690 UJ	0.140 UJ	0.210 UJ	0.130 UJ	0.0960 UJ	0.0940 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.0380 UJ	0.120 UJ	0.0670 UJ	0.130 UJ	0.200 UJ	0.120 UJ	0.0920 UJ	0.0900 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.0310 U	0.0960 U	0.0540 U	0.110 U	0.160 U	0.0980 U	0.0740 U	0.0730 U
SED-X-2-0-0.5	0-0.5	9/29/2006	0.0450 UJ	0.140 UJ	0.0780 UJ	0.160 UJ	0.240 UJ	0.140 UJ	0.110 UJ	0.110 UJ
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.0310 U	0.0970 U	0.0540 U	0.110 U	0.160 U	0.0980 U	0.0750 U	0.0730 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.0430 UJ	0.140 UJ	0.0760 UJ	0.150 UJ	0.230 UJ	0.140 UJ	0.100 UJ	0.100 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.0500 UJ	0.150 UJ	0.0870 UJ	0.170 UJ	0.260 UJ	0.160 UJ	0.120 UJ	0.120 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.0410 UJ	0.130 UJ	0.0720 UJ	0.140 UJ	0.220 UJ	0.130 UJ	0.0990 UJ	0.0970 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.0410 UJ	0.130 UJ	0.0710 UJ	0.140 UJ	0.220 UJ	0.130 UJ	0.0980 UJ	0.0960 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.0320 U	0.100 U	0.0560 U	0.110 U	0.170 U	0.100 U	0.0770 U	0.0760 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.0310 U	0.0950 U	0.0530 U	0.110 U	0.160 U	0.0970 U	0.0740 U	0.0720 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.0490 UJ	0.150 UJ	0.0850 UJ	0.170 UJ	0.260 UJ	0.150 UJ	0.120 UJ	0.120 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.0400 UJ	0.130 UJ	0.0700 UJ	0.140 UJ	0.210 UJ	0.130 UJ	0.0970 UJ	0.0950 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.0450 UJ	0.140 UJ	0.0790 UJ	0.160 UJ	0.240 UJ	0.140 UJ	0.110 UJ	0.110 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.0400 UJ	0.120 UJ	0.0690 UJ	0.140 UJ	0.210 UJ	0.120 UJ	0.0950 UJ	0.0940 UJ
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.0500 UJ	0.160 UJ	0.0870 UJ	0.170 UJ	0.270 UJ	0.160 UJ	0.120 UJ	0.120 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.0290 U	0.0890 U	0.0500 U	0.100 U	0.150 U	0.0910 U	0.0690 U	0.0680 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.0390 UJ	0.120 UJ	0.0670 UJ	0.130 UJ	0.200 UJ	0.120 UJ	0.0930 UJ	0.0910 UJ

APPENDIX N - ATTACHMENT 2-2g
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2-Chloronaphthalene mg/kg	2-Chlorophenol mg/kg	2-Methylnaphthalene mg/kg	2-Methylphenol mg/kg	2-Nitroaniline mg/kg	2-Nitrophenol mg/kg	3,3'-Dichlorobenzidine mg/kg	3-Nitroaniline mg/kg
Sediment ERL					0.07					
Sediment ERM					0.67					
SED-W-1-0-0.5	0-0.5	10/2/2006	0.150 UJ	0.0910 UJ	0.0690 UJ	0.100 UJ	0.0670 UJ	0.130 UJ	0.100 UJ	0.0830 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.160 UJ	0.0960 UJ	0.0730 UJ	0.110 UJ	0.0710 UJ	0.140 UJ	0.110 UJ	0.0870 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.150 UJ	0.0920 UJ	0.0700 UJ	0.110 UJ	0.0680 UJ	0.130 UJ	0.100 UJ	0.0830 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.0860 U	0.0530 U	0.0400 U	0.0600 U	0.0390 U	0.0760 U	0.0590 U	0.0480 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.120 UJ	0.0710 UJ	0.0540 UJ	0.0810 UJ	0.0520 UJ	0.100 UJ	0.0790 UJ	0.0640 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.110 UJ	0.0680 UJ	0.0520 UJ	0.0780 UJ	0.0500 UJ	0.0980 UJ	0.0750 UJ	0.0610 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.0900 U	0.0550 U	0.0709 J	0.0630 U	0.0410 U	0.0800 U	0.0610 U	0.0500 U
SED-X-2-0-0.5	0-0.5	9/29/2006	0.130 UJ	0.0800 UJ	0.0855 J	0.0910 UJ	0.0590 UJ	0.120 UJ	0.0890 UJ	0.0720 UJ
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.0900 U	0.0550 U	0.0420 U	0.0630 U	0.0410 U	0.0800 U	0.0610 U	0.0500 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.130 UJ	0.0770 UJ	0.0590 UJ	0.0880 UJ	0.0570 UJ	0.110 UJ	0.0860 UJ	0.0700 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.140 UJ	0.0880 UJ	0.0670 UJ	0.100 UJ	0.0650 UJ	0.130 UJ	0.0980 UJ	0.0800 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.120 UJ	0.0730 UJ	0.0819 J	0.0840 UJ	0.0540 UJ	0.110 UJ	0.0810 UJ	0.0660 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.120 UJ	0.0720 UJ	0.0550 UJ	0.0830 UJ	0.0530 UJ	0.100 UJ	0.0810 UJ	0.0660 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.0930 U	0.0570 U	0.123 J	0.0650 U	0.0420 U	0.0830 U	0.0640 U	0.0520 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.0890 U	0.0540 U	0.0410 U	0.0620 U	0.0400 U	0.0790 U	0.0610 U	0.0490 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.140 UJ	0.0870 UJ	0.0660 UJ	0.0990 UJ	0.0640 UJ	0.130 UJ	0.0970 UJ	0.0780 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.120 UJ	0.0710 UJ	0.0540 UJ	0.0820 UJ	0.0530 UJ	0.100 UJ	0.0800 UJ	0.0650 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.130 UJ	0.0800 UJ	0.0610 UJ	0.0920 UJ	0.0590 UJ	0.120 UJ	0.0890 UJ	0.0730 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.110 UJ	0.0700 UJ	0.0530 UJ	0.0800 UJ	0.0520 UJ	0.100 UJ	0.0780 UJ	0.0640 UJ
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.150 UJ	0.0890 UJ	0.0680 UJ	0.100 UJ	0.0660 UJ	0.130 UJ	0.0990 UJ	0.0800 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.0840 U	0.0510 U	0.145	0.0580 U	0.0380 U	0.0740 U	0.0570 U	0.0460 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.110 UJ	0.0680 UJ	0.0520 UJ	0.0780 UJ	0.0510 UJ	0.0990 UJ	0.0760 UJ	0.0620 UJ

APPENDIX N - ATTACHMENT 2-2g
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	4,6-Dinitro-2-Methylphenol mg/kg	4-Bromophenyl-Phenyl Ether mg/kg	4-Chloro-3-Methylphenol mg/kg	4-Chloroaniline mg/kg	4-Chlorophenyl-Phenyl Ether mg/kg	4-Nitroaniline mg/kg	4-Nitrophenol mg/kg	9,10-Anthracenedione mg/kg
Sediment ERL										
Sediment ERM										
SED-W-1-0-0.5	0-0.5	10/2/2006	0.0930 UJ	0.0540 UJ	0.140 UJ	0.0660 UJ	0.0500 UJ	0.0730 UJ	0.140 UJ	
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.0980 UJ	0.0570 UJ	0.140 UJ	0.0700 UJ	0.0530 UJ	0.0780 UJ	0.150 UJ	
SED-W-2-0-0.5	0-0.5	10/2/2006	0.0930 UJ	0.0540 UJ	0.140 UJ	0.0660 UJ	0.0500 UJ	0.0740 UJ	0.150 UJ	
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.0540 UJ	0.0310 U	0.0780 U	0.0380 U	0.0290 U	0.0430 U	0.0840 U	
SED-W-3-0-0.5	0-0.5	10/2/2006	0.0720 UJ	0.0420 UJ	0.100 UJ	0.0510 UJ	0.0390 UJ	0.0570 UJ	0.110 UJ	
SED-X-1-0-0.5	0-0.5	9/29/2006	0.0690 UJ	0.0400 UJ	0.100 UJ	0.0490 UJ	0.0370 UJ	0.0550 UJ	0.110 UJ	
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.0560 U	0.0330 U	0.0810 U	0.0400 U	0.0300 U	0.0440 U	0.0870 U	
SED-X-2-0-0.5	0-0.5	9/29/2006	0.0810 UJ	0.0470 UJ	0.120 UJ	0.0580 UJ	0.0440 UJ	0.0640 UJ	0.130 UJ	
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.0560 U	0.0330 U	0.0820 U	0.0400 U	0.0300 U	0.0440 U	0.0880 U	
SED-X-3-0-0.5	0-0.5	9/29/2006	0.0780 UJ	0.0460 UJ	0.110 UJ	0.0560 UJ	0.0420 UJ	0.0620 UJ	0.120 UJ	
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.0900 UJ	0.0520 UJ	0.130 UJ	0.0640 UJ	0.0490 UJ	0.0710 UJ	0.140 UJ	
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.0740 UJ	0.0430 UJ	0.110 UJ	0.0530 UJ	0.0400 UJ	0.0590 UJ	0.120 UJ	
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.0740 UJ	0.0430 UJ	0.110 UJ	0.0520 UJ	0.0400 UJ	0.0580 UJ	0.120 UJ	
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.0580 U	0.0340 U	0.0850 U	0.0410 U	0.0310 U	0.0460 U	0.0910 U	
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.0550 U	0.0320 U	0.0810 U	0.0390 U	0.0300 U	0.0440 U	0.0860 U	
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.0880 UJ	0.0510 UJ	0.130 UJ	0.0630 UJ	0.0480 UJ	0.0700 UJ	0.140 UJ	
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.0730 UJ	0.0420 UJ	0.110 UJ	0.0520 UJ	0.0390 UJ	0.0580 UJ	0.110 UJ	
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.0820 UJ	0.0480 UJ	0.120 UJ	0.0580 UJ	0.0440 UJ	0.0650 UJ	0.130 UJ	
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.0710 UJ	0.0420 UJ	0.100 UJ	0.0510 UJ	0.0390 UJ	0.0570 UJ	0.110 UJ	
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.0900 UJ	0.0530 UJ	0.130 UJ	0.0640 UJ	0.0490 UJ	0.0720 UJ	0.140 UJ	0.890 J
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.0520 U	0.0300 U	0.0760 U	0.0370 U	0.0280 U	0.0410 U	0.0810 U	
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.0700 UJ	0.0410 UJ	0.100 UJ	0.0500 UJ	0.0380 UJ	0.0550 UJ	0.110 UJ	0.430 J

APPENDIX N - ATTACHMENT 2-2g
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Acenaphthene mg/kg	Acenaphthylene mg/kg	Acetophenone mg/kg	Anthracene mg/kg	Atrazine mg/kg	Benzaldehyde mg/kg	Benzo (a) Anthracene mg/kg	Benzo (a) Pyrene mg/kg	Benzo (b) fluoranthene mg/kg	Benzo (g,H,i) Perylene mg/kg
Sediment ERL			0.016	0.044		0.085			0.261	0.43		
Sediment ERM			0.5	0.64		1.1			1.6	1.6		
SED-W-1-0-0.5	0-0.5	10/2/2006	0.0540 UJ	0.0430 UJ	0.0670 UJ	0.0740 J	0.0920 UJ	0.120 UJ	0.182 J	0.179 J	0.201 J	0.160 J
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.0580 UJ	0.0888 J	0.0710 UJ	0.0928 J	0.0970 UJ	0.120 UJ	0.273 J	0.324 J	0.372 J	0.116 J
SED-W-2-0-0.5	0-0.5	10/2/2006	0.0550 UJ	0.165 J	0.0680 UJ	0.287 J	0.0930 UJ	0.120 UJ	0.518 J	0.500 J	0.498 J	0.354 J
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.0320 U	0.0250 U	0.0390 U	0.0240 U	0.0530 U	0.0680 U	0.0300 U	0.0210 U	0.0280 U	0.0340 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.0420 UJ	0.0330 UJ	0.0520 UJ	0.0320 UJ	0.0710 UJ	0.0910 UJ	0.115 J	0.103 J	0.0666 J	0.0459 J
SED-X-1-0-0.5	0-0.5	9/29/2006	0.0400 UJ	0.0320 UJ	0.0500 UJ	0.0369 J	0.0680 UJ	0.0870 UJ	0.129 J	0.160 J	0.150 J	0.0808 J
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.0330 U	0.197	0.0400 U	0.760	0.0550 U	0.0710 U	0.807	0.688	0.583	0.404
SED-X-2-0-0.5	0-0.5	9/29/2006	0.0941 J	0.139 J	0.0590 UJ	0.321 J	0.0800 UJ	0.100 UJ	0.583 J	0.573 J	0.638 J	0.342 J
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.0330 U	0.0260 U	0.0410 U	0.0296 J	0.0560 U	0.0710 U	0.0782 J	0.0748 J	0.0533 J	0.0518 J
SED-X-3-0-0.5	0-0.5	9/29/2006	0.0460 UJ	0.0761 J	0.0570 UJ	0.102 J	0.0780 UJ	0.0990 UJ	0.344 J	0.426 J	0.389 J	0.217 J
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.0530 UJ	0.0734 J	0.0650 UJ	0.0792 J	0.0890 UJ	0.110 UJ	0.267 J	0.291 J	0.321 J	0.182 J
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.305 J	0.178 J	0.0540 UJ	0.714 J	0.0740 UJ	0.0940 UJ	1.01 J	0.770 J	1.00 J	0.483 J
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.0430 UJ	0.115 J	0.0530 UJ	0.149 J	0.0730 UJ	0.0930 UJ	0.445 J	0.527 J	0.527 J	0.329 J
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.0628 J	0.0270 U	0.0420 U	0.166	0.0580 U	0.0730 U	0.166	0.132	0.119 J	0.0789 J
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.0320 U	0.0260 U	0.0400 U	0.0250 U	0.0550 U	0.0700 U	0.0701 J	0.0689 J	0.0537 J	0.0350 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.0520 UJ	0.0636 J	0.0640 UJ	0.0869 J	0.0870 UJ	0.110 UJ	0.267 J	0.326 J	0.298 J	0.175 J
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.0693 J	0.0487 J	0.0530 UJ	0.140 J	0.0720 UJ	0.0920 UJ	0.422 J	0.372 J	0.351 J	0.240 J
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.0480 UJ	0.0729 J	0.0590 UJ	0.136 J	0.0810 UJ	0.100 UJ	0.320 J	0.353 J	0.378 J	0.211 J
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.0420 UJ	0.180 J	0.0520 UJ	1.06 J	0.0710 UJ	0.0900 UJ	0.820 J	0.639 J	0.743 J	0.392 J
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.0530 UJ	0.169 J	0.0650 UJ	0.221 J	0.0900 UJ	0.110 UJ	1.05 J	0.935 J	1.14 J	0.420 J
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.287	0.259	0.0380 U	*1.14*	0.0520 U	0.0660 U	1.06	0.996	0.838	0.476
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.0410 UJ	0.0679 J	0.0500 UJ	0.108 J	0.0690 UJ	0.0880 UJ	0.312 J	0.329 J	0.358 J	0.178 J

APPENDIX N - ATTACHMENT 2-2g
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Benzo (k) fluoranthene mg/kg	Bis(2-Chloroethoxy) Methane mg/kg	Bis(2-Chloroethyl) Ether mg/kg	Bis(2-Chloroisopropyl) Ether mg/kg	Bis(2-Ethylhexyl) Phthalate mg/kg	Butyl Benzyl Phthalate mg/kg	Caprolactam mg/kg	Carbazole mg/kg
Sediment ERL										
Sediment ERM										
SED-W-1-0-0.5	0-0.5	10/2/2006	0.151 J	0.0690 UJ	0.0530 UJ	0.0800 UJ	0.516 UJ	0.0800 UJ	0.100 UJ	0.0430 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.305 J	0.0730 UJ	0.0560 UJ	0.0840 UJ	1.11 UJ	0.0850 UJ	0.110 UJ	0.0450 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.350 J	0.0690 UJ	0.0530 UJ	0.0800 UJ	13.3 J	0.0810 UJ	0.100 UJ	0.0430 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.0460 U	0.0400 U	0.0310 U	0.0460 U	0.0790 U	0.0470 U	0.0590 U	0.0250 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.0934 J	0.0530 UJ	0.0410 UJ	0.0620 UJ	0.110 UJ	0.0620 UJ	0.0800 UJ	0.0330 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.139 J	0.0510 UJ	0.0390 UJ	0.0590 UJ	0.318 J	0.0600 UJ	0.0760 UJ	0.0320 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.469	0.0410 U	0.0320 U	0.0480 U	5.86	0.0490 U	0.0620 U	0.0260 U
SED-X-2-0-0.5	0-0.5	9/29/2006	0.397 J	0.0600 UJ	0.0460 UJ	0.0700 UJ	7.56 J	0.0700 UJ	0.0900 UJ	0.0513 J
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.0498 J	0.0410 U	0.0320 U	0.0480 U	0.175	0.0490 U	0.0620 U	0.0260 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.305 J	0.0580 UJ	0.0450 UJ	0.0680 UJ	0.479 J	0.0680 UJ	0.0870 UJ	0.0360 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.230 J	0.0660 UJ	0.0510 UJ	0.0770 UJ	0.621 J	0.0780 UJ	0.0990 UJ	0.0420 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.566 J	0.0550 UJ	0.0430 UJ	0.0640 UJ	30.4 J	0.0650 UJ	0.0820 UJ	0.0350 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.378 J	0.0540 UJ	0.0420 UJ	0.0630 UJ	3.18 J	0.0640 UJ	0.0810 UJ	0.0340 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.104 J	0.0430 U	0.0330 U	0.0500 U	0.712	0.0500 U	0.0640 U	0.0270 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.0497 J	0.0410 U	0.0320 U	0.0480 U	0.0810 U	0.0480 U	0.0610 U	0.0260 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.225 J	0.0650 UJ	0.0500 UJ	0.0760 UJ	0.590 J	0.0770 UJ	0.0980 UJ	0.0410 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.295 J	0.0540 UJ	0.0420 UJ	0.0630 UJ	0.393 J	0.0630 UJ	0.0800 UJ	0.0959 J
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.328 J	0.0600 UJ	0.0470 UJ	0.0700 UJ	0.845 J	0.0710 UJ	0.0900 UJ	0.0494 J
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.449 J	0.0530 UJ	0.0410 UJ	0.0610 UJ	14.3 J	0.0620 UJ	0.0790 UJ	0.0330 UJ
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.797 J	0.0670 UJ	0.0520 UJ	0.0780 UJ	3.09 J	0.0780 UJ	0.100 UJ	0.132 J
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.694	0.0380 U	0.0300 U	0.0450 U	5.73	0.0450 U	0.0570 U	0.0240 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.308 J	0.0520 UJ	0.0400 UJ	0.0600 UJ	0.664 J	0.0600 UJ	0.0770 UJ	0.0338 J

APPENDIX N - ATTACHMENT 2-2g
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Chrysene mg/kg	Cresols, M & P mg/kg	Dibenz (a,H) Anthracene mg/kg	Dibenzofuran mg/kg	Diethyl Phthalate mg/kg	Dimethyl Phthalate mg/kg	Di-N-Butyl Phthalate mg/kg	Di-N-Octyl Phthalate mg/kg	Fluoranthene mg/kg	Fluorene mg/kg
Sediment ERL			0.4		0.1						0.6	0.0
Sediment ERM			2.8		0.3						5.1	0.5
SED-W-1-0-0.5	0-0.5	10/2/2006	0.237 J	#### UJ	0.0560 UJ	0.0500 UJ	0.0460 UJ	0.0460 UJ	0.0680 UJ	0.0910 UJ	0.369 J	0.0430 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.338 J	#### UJ	0.0590 UJ	0.0520 UJ	0.0480 UJ	0.0480 UJ	0.0720 UJ	0.0960 UJ	0.434 J	0.0450 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.732 J	#### UJ	0.0804 J	0.0500 UJ	0.0460 UJ	0.0460 UJ	0.0680 UJ	0.0920 UJ	1.30 J	0.0430 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.0293 J	#### U	0.0320 U	0.0290 U	0.0260 U	0.0260 U	0.0390 U	0.0530 U	0.0310 J	0.0250 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.110 J	#### UJ	0.0430 UJ	0.0380 UJ	0.0350 UJ	0.0350 UJ	0.0530 UJ	0.0710 UJ	0.181 J	0.0330 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.159 J	#### UJ	0.0420 UJ	0.0370 UJ	0.0340 UJ	0.0340 UJ	0.0500 UJ	0.0680 UJ	0.250 J	0.0320 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	1.01	#### U	0.135	0.0300 U	0.0270 U	0.0280 U	0.0410 U	0.0550 U	1.58	0.0260 U
SED-X-2-0-0.5	0-0.5	9/29/2006	0.712 J	#### UJ	0.0963 J	0.0883 J	0.0400 UJ	0.0400 UJ	0.0590 UJ	0.0800 UJ	1.40 J	0.0370 UJ
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.0757 J	#### U	0.0340 U	0.0300 U	0.0280 U	0.0280 U	0.0410 U	0.0550 U	0.112 J	0.0260 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.361 J	#### UJ	0.0673 J	0.0420 UJ	0.0390 UJ	0.0390 UJ	0.0570 UJ	0.0770 UJ	0.525 J	0.0360 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.302 J	#### UJ	0.0540 UJ	0.0480 UJ	0.0440 UJ	0.0440 UJ	0.0660 UJ	0.0880 UJ	0.479 J	0.0410 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	1.40 J	#### UJ	0.0450 UJ	0.0400 UJ	0.0370 UJ	0.0370 UJ	0.0540 UJ	0.0730 UJ	3.40 J	0.165 J
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.474 J	#### UJ	0.0927 J	0.0390 UJ	0.0360 UJ	0.0360 UJ	0.0540 UJ	0.0720 UJ	0.720 J	0.0340 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.181	#### U	0.0350 U	0.0310 U	0.0290 U	0.0290 U	0.0420 U	0.0570 U	0.341	0.0955 J
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.0567 J	#### U	0.0330 U	0.0300 U	0.0270 U	0.0270 U	0.0400 U	0.0540 U	0.114 J	0.0250 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.405 J	#### UJ	0.0530 UJ	0.0470 UJ	0.0430 UJ	0.0430 UJ	0.0640 UJ	0.0870 UJ	0.462 J	0.0410 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.457 J	#### UJ	0.0801 J	0.0532 J	0.0360 UJ	0.0360 UJ	0.0530 UJ	0.0710 UJ	1.05 J	0.0725 J
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.380 J	#### UJ	0.0490 UJ	0.0440 UJ	0.0400 UJ	0.0400 UJ	0.0600 UJ	0.0800 UJ	0.561 J	0.0380 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	1.20 J	#### UJ	0.0430 UJ	0.0380 UJ	0.0350 UJ	0.0350 UJ	0.0520 UJ	0.0700 UJ	2.22 J	0.0330 UJ
SED-Z-2-0-0.5	0-0.5	9/29/2006	1.37 J	#### UJ	0.149 J	0.0480 UJ	0.0440 UJ	0.0450 UJ	0.0660 UJ	0.0890 UJ	3.69 J	0.0420 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	1.35	#### U	0.165	0.0280 U	0.0260 U	0.0260 U	0.0380 U	0.0510 U	2.09	0.292
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.420 J	#### UJ	0.0622 J	0.0370 UJ	0.0340 UJ	0.0340 UJ	0.0510 UJ	0.0680 UJ	0.831 J	0.0320 UJ

APPENDIX N - ATTACHMENT 2-2g
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Hexachloro-benzene mg/kg	Hexachloro-butadiene mg/kg	Hexachloro-cyclopentadiene mg/kg	Hexachloro-ethane mg/kg	Indeno (1,2,3-C,d) Pyrene mg/kg	Isophorone mg/kg	Naphthalene mg/kg	Nitrobenzene mg/kg	N-Nitroso-Di-N-Propylamine mg/kg
Sediment ERL									0.16		
Sediment ERM									2.1		
SED-W-1-0-0.5	0-0.5	10/2/2006	0.0610 UJ	0.0700 UJ	0.0760 UJ	0.0530 UJ	0.125 J	0.0530 UJ	0.0600 UJ	0.0740 UJ	0.0680 UJ
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.0650 UJ	0.0740 UJ	0.0810 UJ	0.0560 UJ	0.111 J	0.0560 UJ	0.0630 UJ	0.0780 UJ	0.0720 UJ
SED-W-2-0-0.5	0-0.5	10/2/2006	0.0620 UJ	0.0710 UJ	0.0770 UJ	0.0540 UJ	0.277 J	0.0530 UJ	0.0600 UJ	0.0750 UJ	0.0690 UJ
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.0350 U	0.0410 U	0.0440 U	0.0310 U	0.0390 U	0.0310 U	0.0350 U	0.0430 U	0.0400 U
SED-W-3-0-0.5	0-0.5	10/2/2006	0.0470 UJ	0.0540 UJ	0.0590 UJ	0.0410 UJ	0.0559 J	0.0410 UJ	0.0460 UJ	0.0580 UJ	0.0530 UJ
SED-X-1-0-0.5	0-0.5	9/29/2006	0.0460 UJ	0.0520 UJ	0.0570 U	0.0400 UJ	0.0695 J	0.0390 UJ	0.0450 UJ	0.0550 UJ	0.0510 UJ
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.0370 U	0.0420 U	0.0460 U	0.0320 U	0.283	0.0320 U	0.0797 J	0.0450 U	0.0410 U
SED-X-2-0-0.5	0-0.5	9/29/2006	0.0530 UJ	0.0610 UJ	0.0670 U	0.0470 UJ	0.251 J	0.0460 UJ	0.142 J	0.0650 UJ	0.0600 UJ
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.0370 U	0.0420 U	0.0460 U	0.0320 U	0.0412 J	0.0320 U	0.0360 U	0.0450 U	0.0410 U
SED-X-3-0-0.5	0-0.5	9/29/2006	0.0520 UJ	0.0590 UJ	0.0650 U	0.0450 UJ	0.182 J	0.0450 UJ	0.0510 UJ	0.0630 UJ	0.0580 UJ
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.0590 UJ	0.0680 UJ	0.0740 U	0.0520 UJ	0.136 J	0.0510 UJ	0.0580 UJ	0.0720 UJ	0.0660 UJ
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.0490 UJ	0.0560 UJ	0.0610 U	0.0430 UJ	0.365 J	0.0420 UJ	0.109 J	0.0600 UJ	0.0550 UJ
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.0490 UJ	0.0560 UJ	0.0610 U	0.0420 UJ	0.245 J	0.0420 UJ	0.0480 UJ	0.0590 UJ	0.0540 UJ
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.0380 U	0.0440 U	0.0480 U	0.0330 U	0.0547 J	0.0330 U	0.0490 J	0.0470 U	0.0430 U
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.0370 U	0.0420 U	0.0460 U	0.0320 U	0.0400 U	0.0320 U	0.0360 U	0.0440 U	0.0410 U
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.0580 UJ	0.0670 UJ	0.0730 U	0.0510 UJ	0.168 J	0.0500 UJ	0.0570 UJ	0.0710 UJ	0.0650 UJ
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.0480 UJ	0.0550 UJ	0.0600 U	0.0420 UJ	0.204 J	0.0410 UJ	0.0659 J	0.0580 UJ	0.0540 UJ
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.0540 UJ	0.0620 UJ	0.0670 U	0.0470 UJ	0.172 J	0.0470 UJ	0.0530 UJ	0.0650 UJ	0.0600 UJ
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.0470 UJ	0.0540 UJ	0.0590 U	0.0410 UJ	0.274 J	0.0410 UJ	0.0814 J	0.0570 UJ	0.0530 UJ
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.0600 UJ	0.0680 UJ	0.0750 U	0.0520 UJ	0.390 J	0.0510 UJ	0.0580 UJ	0.0720 UJ	0.0670 UJ
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.0340 U	0.0390 U	0.0430 U	0.0300 U	0.401	0.0300 U	0.139	0.0420 U	0.0380 U
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.0460 UJ	0.0530 UJ	0.0570 U	0.0400 UJ	0.151 J	0.0400 UJ	0.0450 UJ	0.0560 UJ	0.0510 UJ

APPENDIX N - ATTACHMENT 2-2g
DETECTED CONSTITUENTS IN SEDIMENT
SVOCs METHOD SW8270C
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	N-Nitrosodiphenylamine mg/kg	Pentachloro-phenol mg/kg	Phenanthrene mg/kg	Phenol mg/kg	Pyrene mg/kg	Sulfur (s8) mg/kg	Sulfur, Mol. (s8) mg/kg	Sulfur mg/kg	Vitamin E mg/kg
Sediment ERL					0.24		0.665				
Sediment ERM					1.5		2.6				
SED-W-1-0-0.5	0-0.5	10/2/2006	0.0440 UJ	0.120 UJ	0.194 J	0.130 UJ	0.424 J				
SED-W-1-0-0.5-DUP	0-0.5	10/2/2006	0.0460 UJ	0.130 UJ	0.165 J	0.140 UJ	0.567 J				
SED-W-2-0-0.5	0-0.5	10/2/2006	0.0440 UJ	0.120 UJ	0.227 J	0.130 UJ	1.49 J		24.0 J		
SED-W-2-1.0-1.5	1-1.5	10/2/2006	0.0250 U	0.0690 U	0.0270 U	0.0760 U	0.0405 J			0.860 JN	
SED-W-3-0-0.5	0-0.5	10/2/2006	0.0340 UJ	0.0920 UJ	0.0516 J	0.100 UJ	0.172 J		1.90 JN		
SED-X-1-0-0.5	0-0.5	9/29/2006	0.0330 UJ	0.0890 UJ	0.0590 J	0.0980 UJ	0.253 J		2.60 J		
SED-X-2-0.5-1.0	0.5-1	9/29/2006	0.0260 U	0.0720 U	0.169	0.0800 U	1.72		5.00 J		
SED-X-2-0-0.5	0-0.5	9/29/2006	0.0380 UJ	0.100 UJ	0.396 J	0.120 UJ	1.61 J		8.60 J		
SED-X-2-1.0-1.5	1-1.5	9/29/2006	0.0270 U	0.0720 U	0.0280 U	0.0800 U	0.116 J		2.10 J		
SED-X-3-0-0.5	0-0.5	9/29/2006	0.0370 UJ	0.100 UJ	0.160 J	0.110 UJ	0.570 J		4.50 J		
SED-Y-1-0-0.5	0-0.5	9/29/2006	0.0430 UJ	0.120 UJ	0.119 J	0.130 UJ	0.503 J		3.10 J		
SED-Y-2-0.5-1.0	0.5-1	9/29/2006	0.0350 UJ	0.0960 UJ	0.398 J	0.110 UJ	*2.82 J*		5.70 J		
SED-Y-2-0-0.5	0-0.5	9/29/2006	0.0350 UJ	0.0950 UJ	0.189 J	0.100 UJ	0.846 J		6.10 J		
SED-Y-2-1.0-1.5	1-1.5	9/29/2006	0.0280 U	0.0750 U	0.309	0.0830 U	0.374		5.50 J		
SED-Y-2-1.5-2.0	1.5-2	9/29/2006	0.0260 U	0.0710 U	0.0340 J	0.0790 U	0.102 J		0.880 J		
SED-Y-3-0-0.5	0-0.5	9/29/2006	0.0420 UJ	0.110 UJ	0.149 J	0.130 UJ	0.459 J		3.90 J		
SED-Y-3-0-0.5-DUP	0-0.5	9/29/2006	0.0340 UJ	0.0930 UJ	0.663 J	0.100 UJ	0.733 J		2.90 J		
SED-Z-1-0-0.5	0-0.5	9/29/2006	0.0390 UJ	0.110 UJ	0.166 J	0.120 UJ	0.616 J		6.80 J		
SED-Z-2-0.5-1.0	0.5-1	9/29/2006	0.0340 UJ	0.0920 UJ	0.205 J	0.100 UJ	*2.98 J*				
SED-Z-2-0-0.5	0-0.5	9/29/2006	0.0430 UJ	0.120 UJ	0.249 J	0.130 UJ	*3.08 J*	12.0 J			0.500 J
SED-Z-2-1.0-1.5	1-1.5	9/29/2006	0.0250 U	0.0670 U	1.34	0.0740 U	2.29				
SED-Z-3-0-0.5	0-0.5	9/29/2006	0.0330 UJ	0.0900 UJ	0.265 J	0.0990 UJ	0.716 J		5.40 J		

APPENDIX N - ATTACHMENT 2-2h
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
Old Place Creek, Staten Island, New York

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SED-W-1-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact (RT=8.38)	N		0.50000	J
SED-W-1-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		200	J
SED-W-1-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=14.72)	N		0.7	J
SED-W-1-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=23.44)	N		2.50	J
SED-W-1-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=2	N		1.90	J
SED-W-1-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=10.13)	N		0.6	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=5	FD	SED-W-1-0-0.5	160.0	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=26.13)	FD	SED-W-1-0-0.5	1.	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=11.96)	FD	SED-W-1-0-0.5	0.94	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=16.07)	FD	SED-W-1-0-0.5	0.56	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=6	FD	SED-W-1-0-0.5	0.68	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact (RT=4.32)	FD	SED-W-1-0-0.5	1.20	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=18.99)	FD	SED-W-1-0-0.5	3.80	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=27.91)	FD	SED-W-1-0-0.5	0.82	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=4	FD	SED-W-1-0-0.5	0.5	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=24.19)	FD	SED-W-1-0-0.5	0.99	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=27.37)	FD	SED-W-1-0-0.5	0.81	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=27.65)	FD	SED-W-1-0-0.5	0.67	J
SED-W-1-0-0.5-DUP	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=25.2)	FD	SED-W-1-0-0.5	1.10	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8260B	System Artifact (RT=17.36)	N		0.03	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8260B	Alkene (RT=16.02)	N		0.02	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8260B	Alkane (RT=17.99)	N		0.02	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8260B	Cycloalkane/Alkene (RT=19.83)	N		0.016	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8260B	Unknown (RT=18.23)	N		0.03	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8260B	Alkane (RT=16.51)	N		0.02	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8260B	System Artifact (RT=15.32)	N		0.0	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8260B	Alkane (RT=16.78)	N		0.02	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8260B	Alkene (RT=16.1)	N		0.03	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=5.47)	N		1.2	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=14.74)	N		4.3	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Cycloalkane/Alkene (RT=5.15)	N		0.4300	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkene (RT=5.62)	N		1.00	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=6.65)	N		1.00	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Cycloalkane/Alkene (RT=4.67)	N		0.52	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact (RT=5.43)	N		1.00	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=7.47)	N		1.50	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=9.95)	N		1.90	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Cycloalkane/Alkene (RT=9.61)	N		1.50	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=9.46)	N		0.51	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=1	N		1.40	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Cycloalkane/Alkene (RT=8.83)	N		3.0000	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=8.64)	N		0.51	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=6.33)	N		0.7200	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact (RT=7.75)	N		2.0000	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=10.69)	N		0.450	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=7.22)	N		0.950	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=6.97)	N		0.8400	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=5.86)	N		0.6900	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=6.45)	N		0.8	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=4.94)	N		0.7100	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=6.04)	N		1.5000	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		180.00	J
SED-W-2-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Alkane (RT=7.95)	N		1.70	J
SED-W-2-1.0-1.5	ACTD	'1-1.5	10/2/2006	SE	SW8270C	System Artifact (RT=23.81)	N		7.60	J
SED-W-2-1.0-1.5	ACTD	'1-1.5	10/2/2006	SE	SW8270C	System Artifact (RT=22.51)	N		0.56	J

APPENDIX N - ATTACHMENT 2-2h
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
Old Place Creek, Staten Island, New York

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SED-W-2-1.0-1.5	ACTD	'1-1.5	10/2/2006	SE	SW8270C	System Artifact (RT=23.19)	N		1.00	J
SED-W-2-1.0-1.5	ACTD	'1-1.5	10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		70.00	J
SED-W-2-1.0-1.5	ACTD	'1-1.5	10/2/2006	SE	SW8270C	Phenol, Methylethylidene (RT=19.42)	N		0.30	J
SED-W-2-1.0-1.5	ACTD	'1-1.5	10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=1	N		2.40	J
SED-W-3-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		140.00	J
SED-W-3-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=8.41)	N		0.3	J
SED-W-3-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=25.23)	N		0.51	J
SED-W-3-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=26.18)	N		0.40	J
SED-W-3-0-0.5	ACTD	'0-0.5	10/2/2006	SE	SW8270C	Unknown (RT=26.7)	N		0.33	J
SED-X-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.67)	N		0.45	J
SED-X-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=23.55)	N		0.42	J
SED-X-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=14.88)	N		1.30	J
SED-X-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.18)	N		0.40	J
SED-X-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.86)	N		0.37	J
SED-X-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact (RT=3.06)	N		0.48	J
SED-X-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		72.00	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.85)	N		0.19	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkene (RT=16.11)	N		0.62	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Naphthalene Decahydro-Methyl (RT=17.95)	N		0.18	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.56)	N		0.22	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=19.14)	N		0.21	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=14.86)	N		0.45	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=18.44)	N		0.3	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=13.12)	N		0.19000	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Unknown (RT=19.56)	N		0.20000	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkene (RT=16.02)	N		0.30000	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.22)	N		0.41	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=17.21)	N		0.2800	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=17.46)	N		0.25000	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=15.05)	N		0.56	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.43)	N		0.18	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=17.91)	N		4.80	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=15.26)	N		2.00	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Cycloalkane/Alkene (RT=8.99)	N		1.90	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		53.00	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.49)	N		5.60	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Azulene, -Ethyl-,-Dimethyl- (RT=14.73)	N		2.900	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=14.97)	N		4.100	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkene (RT=5.78)	N		3.70	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.33)	N		3.50	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=15.14)	N		5.10	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=6.17)	N		2.300	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=8.8)	N		2.60	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=15.04) TIC	N		2.100	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane	N		3.200	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=17.57)	N		2.500	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=11.78)	N		4.300	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=11.09)	N		1.80	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.54)	N		5.800	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=17.75)	N		2.10	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Cycloalkane/Alkene (RT=12.35)	N		2.500	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Naphthalene Trimethyl (RT=13.02)	N		1.80	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=5.63)	N		3.6	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=10.47)	N		2.7	J
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=10.86)	N		2.300	J

APPENDIX N - ATTACHMENT 2-2h
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
Old Place Creek, Staten Island, New York

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SED-X-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=25.2)	N		2.2	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.19)	N		2.000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.48)	N		1.3000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=8.99)	N		1.1000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=15.25)	N		1.1000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane	N		2.1000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=15.13)	N		2.200	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=17.9)	N		2.8000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=11.77)	N		2.2000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=15.31)	N		1.2000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=14.46)	N		1.1000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=14.96)	N		1.800	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=18.32)	N		1.1000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=12.34)	N		1.6	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown	N		1.3000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Naphthalene, -Methyl-Methylethyl (RT=14.	N		1.3000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkene (RT=5.77)	N		3.5000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=10.85)	N		1.4000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Naphthalene Trimethyl (RT=13.01)	N		1.3000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=5.63)	N		3.4000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Naphthalene, Decahydro--Methyl (RT=7.38)	N		1.2000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		80.0000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=10.29)	N		1.1000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=10.47)	N		1.4000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=14.89)	N		2.9000	J
SED-X-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=16.16)	N		1.4000	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=17.95)	N		0.012	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Unknown (RT=20.11)	N		0.0130	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkene (RT=16.02)	N		0.0170	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=19.56)	N		0.0130	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=18.44)	N		0.0200	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.43)	N		0.010	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=16.62)	N		0.0100	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=19.15)	N		0.0098	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=15.05)	N		0.0210	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=19.83)	N		0.0130	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkene (RT=16.1)	N		0.0400	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.22)	N		0.0130	J
SED-X-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		120.000	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=12.36)	N		0.5	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.19)	N		0.6400	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.68)	N		0.550	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=13.41)	N		0.4400	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.98)	N		0.5900	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.38)	N		0.8200	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.87)	N		0.690	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact (RT=3.07)	N		0.450	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown PAH Substance (RT=23.65)	N		0.45	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.35)	N		0.81	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		52.0	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=23.56)	N		0.64	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown	N		0.38	J
SED-X-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=14.89)	N		2.800	J
SED-Y-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.18)	N		0.78	J
SED-Y-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.86)	N		0.9	J

APPENDIX N - ATTACHMENT 2-2h
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
Old Place Creek, Staten Island, New York

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SED-Y-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.68)	N		0.72	J
SED-Y-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.33)	N		0.44	J
SED-Y-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact (RT=3.06)	N		0.50	J
SED-Y-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		170.00	J
SED-Y-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=14.88)	N		2.90	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Naphthalene Decahydro (RT=17.27)	N		0.16	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=17.21)	N		0.130	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=17.46)	N		0.15	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=18.44)	N		0.130	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkene (RT=11.95)	N		0.18	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=19.13)	N		0.1	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene + Alkane (RT=16.51)	N		0.11	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkene (RT=16.1)	N		0.5	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=14.86)	N		0.13	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.86)	N		0.12	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=15.05)	N		0.2	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkene (RT=16.01)	N		0.24	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.56)	N		0.11	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.22)	N		0.15	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=15.13)	N		5.2000	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=15.04) TIC	N		2.6	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		47.0000	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Naphthalene Dimethyl	N		1.9000	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane	N		2.5000	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=14.9)	N		3.5000	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=17.89)	N		2.1	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=14.97)	N		11.0000	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=10.61)	N		2.0000	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Naphthalene, -Methyl-Methylethyl (RT=14.	N		2.1000	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=10.86)	N		1.9000	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=11.02)	N		2.7000	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=11.08)	N		2.00	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Decahydro--Pentamethylna (RT=11.78)	N		3.30	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Cycloalkane/Alkene (RT=12.35)	N		3	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Decahydro--Pentamethylna (RT=12.25)	N		3.20	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=15.26)	N		2.10	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=10.47)	N		2.00	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.54)	N		3.70	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=9.62)	N		1.90	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.33)	N		2.1	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.49)	N		4.00	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=5.63)	N		5.60	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkene (RT=5.78)	N		5.50	J
SED-Y-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=8.79)	N		2.00	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8260B	Alkene (RT=16.11)	N		0.01	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8260B	Alkane (RT=18.23)	N		0.02	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=11.77)	N		0.72	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=18.15)	N		0.58	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=13.41)	N		0.59	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact (RT=3.06)	N		0.43	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=15.31)	N		0.49	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=19.93)	N		0.44	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=16.39)	N		0.49	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.86)	N		0.74	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=17.89)	N		0.7400	J

APPENDIX N - ATTACHMENT 2-2h
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
Old Place Creek, Staten Island, New York

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.34)	N		0.6	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.68)	N		0.8700	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.18)	N		1.5000	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=18.88)	N		0.45	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.83)	N		0.6900	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown	N		0.5400	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkene (RT=10.46)	N		0.4000	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		120.00000	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Cycloalkane/Alkene (RT=14.88)	N		3.3000	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=15.12)	N		0.4700	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=14.94)	N		0.43	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=23.38)	N		0.570	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=18.3)	N		0.51	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.22)	N		0.500	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane	N		0.78	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.31)	N		0.83	J
SED-Y-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=23.57)	N		0.770	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkene (RT=11.95)	N		0.055	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkene (RT=16.11)	N		0.200	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.14)	N		0.059	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.88)	N		0.100	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=15.05)	N		0.093	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=13.88)	N		0.059	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=19.12)	N		0.08	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkene (RT=15.94)	N		0.05	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Unknown (RT=19.56)	N		0.09	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.22)	N		0.10	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=14.86)	N		0.079	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=16.6)	N		0.130	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Naphthalene Decahydro (RT=17.27)	N		0.07	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=20.39)	N		0.120	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=18.44)	N		0.07	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Cycloalkane/Alkene (RT=14.44)	N		0.73	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=15.03)	N		0.6400	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown PAH Substance (RT=15.12)	N		1.2000	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=14.95)	N		4.2000	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=13.87)	N		0.7400	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=11.77)	N		1.2	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.46)	N		0.9900	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=4.7)	N		0.74	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Decahydro--Pentamethylna (RT=12.24)	N		0.7200	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=5.63)	N		0.6500	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Naphthalene Trimethyl (RT=13.07)	N		0.63	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=10.85)	N		0.64	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkene (RT=5.77)	N		0.65	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		81.00	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=5.99)	N		0.76	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=10.61)	N		0.73	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Cycloalkane/Alkene (RT=11.96)	N		0.88	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=12.1)	N		1.60	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.3)	N		0.68	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Phenol, '-(-Methylethylidene)bis (RT=19.	N		1.10	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=12.34)	N		0.74	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=6.16)	N		0.63	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=8.79)	N		0.81	J

APPENDIX N - ATTACHMENT 2-2h
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
Old Place Creek, Staten Island, New York

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=9.61)	N		0.80	J
SED-Y-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=16.91)	N		0.77	J
SED-Y-2-1.5-2.0	ACTD	'1.5-2	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		140.00	J
SED-Y-2-1.5-2.0	ACTD	'1.5-2	9/29/2006	SE	SW8270C	System Artifact (RT=3.06)	N		0.42	J
SED-Y-2-1.5-2.0	ACTD	'1.5-2	9/29/2006	SE	SW8270C	Phenol, '-(-Methylethylidene)bis (RT=19.	N		0.28	J
SED-Y-2-1.5-2.0	ACTD	'1.5-2	9/29/2006	SE	SW8270C	Unknown (RT=25.36)	N		0.31	J
SED-Y-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		170.00	J
SED-Y-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=14.88)	N		3.50	J
SED-Y-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.86)	N		0.49	J
SED-Y-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.83)	N		0.44	J
SED-Y-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.18)	N		0.71	J
SED-Y-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.68)	N		0.71	J
SED-Y-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=23.55)	N		0.56	J
SED-Y-3-0-0.5-DUP	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=14.88)	FD	SED-Y-3-0-0.5	2.6	J
SED-Y-3-0-0.5-DUP	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.18)	FD	SED-Y-3-0-0.5	0.5800	J
SED-Y-3-0-0.5-DUP	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.07)	FD	SED-Y-3-0-0.5	0.88	J
SED-Y-3-0-0.5-DUP	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.86)	FD	SED-Y-3-0-0.5	0.50	J
SED-Y-3-0-0.5-DUP	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	FD	SED-Y-3-0-0.5	160.000	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		43.000	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.87)	N		0.910	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.58)	N		0.92	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.68)	N		0.660	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.34)	N		1.600	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.32)	N		0.51	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.97)	N		0.600	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=23.56)	N		0.53	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.38)	N		0.73	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.19)	N		0.88	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=14.88)	N		3.80	J
SED-Z-1-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown PAH Substance (RT=20.26)	N		0.42	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=15.05)	N		0.31	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=19.56)	N		0.30	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Naphthalene Decahydro-Methyl (RT=18.2)	N		0.160	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.86)	N		0.17	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=19.14)	N		0.29	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=16.38)	N		0.200	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=16.51)	N		0.170	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=18.44)	N		0.400	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkene (RT=16.01)	N		0.350	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=17.31)	N		0.180	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkene (RT=16.11)	N		0.86	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=17.46)	N		0.24	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=17.21)	N		0.25	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.22)	N		0.23	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8260B	Alkane (RT=14.86)	N		0.4	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Decahydro-Pentamethylna (RT=12.26)	N		3.60	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=25.19)	N		5.80	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.35)	N		3.80	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		110.00	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=12.36)	N		3.60	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=8.8)	N		3.00	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=17.91)	N		4.4	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Phenol, -(-tetramethylbuty (RT=15.04)	N		4.40	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=5.99)	N		2.90	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=18.66)	N		5.8	J

APPENDIX N - ATTACHMENT 2-2h
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
Old Place Creek, Staten Island, New York

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Cycloalkane/Alkene (RT=10.62)	N		2.80	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=5.63)	N		5.20	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Phenanthrene,-Dimethyl- (RT=18.57)	N		7.40	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.52)	N		7.70	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Dimethyldibenzo()thiophene (RT=17.76)	N		2.9	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=11.79)	N		4.40	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkene (RT=5.78)	N		5.40	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=18.61)	N		4.90	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=25.65)	N		4.00	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=25.07)	N		5.00	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=24.68)	N		3.30	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=15.14)	N		9.10	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Alkane (RT=14.98)	N		8.10	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Azulene, -Ethyl-,-Dimethyl- (RT=14.73)	N		5.3	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Azulene, -Ethyl--Dimethyl- (RT=14.91)	N		4.3000	J
SED-Z-2-0.5-1.0	ACTD	'0.5-1	9/29/2006	SE	SW8270C	Unknown (RT=15.27)	N		3	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.35)	N		0.8800	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=11.77)	N		0.47	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=15.3)	N		0.5	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown PAH Substance (RT=20.27)	N		0.46	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=14.89)	N		3.40	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.87)	N		0.76	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown PAH Substance (RT=19.91)	N		0.7	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=22.58)	N		0.45	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		160.00	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=23.19)	N		0.52	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=17.38)	N		0.52	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown PAH Substance (RT=23.66)	N		0.81	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=23.57)	N		0.72	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=23.39)	N		0.80	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=15.12)	N		0.53	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=18.15)	N		0.46	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact (RT=3.06)	N		0.45	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=12.24)	N		0.66	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.19)	N		1.60	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Phenol, '-(-Methylethylidene)bis (RT=19.	N		0.9	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.84)	N		0.61	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.69)	N		0.90	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=13.27)	N		0.440	J
SED-Z-2-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=13.41)	N		0.61	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=19.13)	N		0.23	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkene (RT=16.11)	N		0.51	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=18.44)	N		0.30	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=17.46)	N		0.26	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=13.56)	N		0.2400	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=17.22)	N		0.19	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=15.05)	N		0.38	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.23)	N		0.37	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=13.12)	N		0.22	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=14.71)	N		0.14	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=15.86)	N		0.19	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Cycloalkane/Alkene (RT=16.62)	N		0.290	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkene (RT=16.01)	N		0.14	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Alkane (RT=14.86)	N		0.48	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8260B	Unknown (RT=19.56)	N		0.20	J

APPENDIX N - ATTACHMENT 2-2h
DETECTED CONSTITUENTS IN SEDIMENT
TENTATIVELY IDENTIFIED COMPOUNDS
Old Place Creek, Staten Island, New York

Sample ID	Lab	Interval (ft)	Sample Date	Matrix ID	Analyte Method	Analyte Name	Sample Type ID	Associated Sample	Result (mg/kg)	
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.33)	N		5.60	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=14.99)	N		26.00	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Cycloalkane/Alkene (RT=5.63)	N		2.80	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Naphthalene, -Methyl-Methylethyl (RT=14.	N		4.800	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=17.91)	N		3.3	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Phenanthrene,-Methyl- (RT=17.22)	N		3.20	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=15.14)	N		7.90	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=6)	N		4.40	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=17.75)	N		3.40	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Cycloalkane/Alkene (RT=14.46)	N		3.20	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Cycloalkane/Alkene (RT=5.78)	N		2.90	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=15.05)	N		3.60	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=8.8)	N		2.900	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Phenanthrene, Dimethyl- (RT=18.55)	N		6.00	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.5)	N		7.80	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Azulene, -Ethyl--Dimethyl- (RT=14.91)	N		2.90	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=18.6)	N		4.7000	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkene (RT=11.03)	N		4.1000	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown (RT=11.79)	N		4.3000	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Cycloalkane/Alkene (RT=10.62)	N		2.8	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=4.71)	N		3.0000	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Unknown PAH Substance (RT=16.46)	N		3.2	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		21.0000	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Alkane (RT=16.93)	N		5.3000	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Phenanthrene, -Dimethyl- (RT=18.66)	N		2.900	J
SED-Z-2-1.0-1.5	ACTD	'1-1.5	9/29/2006	SE	SW8270C	Anthracene Methyl (RT=17.15)	N		4.400	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkane (RT=23.56)	N		0.890	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.35)	N		1.50	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=15.31)	N		0.340	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.59)	N		0.930	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.69)	N		0.630	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	System Artifact/Aldol-Condensation (RT=3) TIC	N		32.000	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.98)	N		0.620	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=24.32)	N		0.480	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown PAH Substance (RT=23.65)	N		0.510	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=26.88)	N		0.990	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.38)	N		0.690	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Unknown (RT=25.19)	N		0.660	J
SED-Z-3-0-0.5	ACTD	'0-0.5	9/29/2006	SE	SW8270C	Alkene (RT=14.89)	N		4.4	J

APPENDIX N - ATTACHMENT 2-3a
DETECTED CONSTITUENTS IN BIOTA
METALS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Arsenic mg/kg	As+3 As As mg/kg	As+5 As As mg/kg	Asb As As mg/kg	Barium mg/kg	Chromium mg/kg	Copper mg/kg	DMA As As mg/kg	Iron mg/kg	Lead mg/kg	Manganese mg/kg
FC-W-1	'0-0	09/26/06	10.8	0.00000200 U	0.0000980	0.00267	62.0	6.20	123.	0.0000600	2,340	8.73	51.6
FC-W-2	'0-0	09/26/06	7.12	0.00000200 U	0.0000460	0.00180	52.3	8.70	120.	0.0000900	1,700	5.81	54.0
DUP	'0-0	09/26/06	8.59	0.00000200 U	0.0000550	0.00173	48.8	9.10	177.	0.0000960	2,190	7.00	56.9
FC-X-1	'0-0	09/26/06	12.5	0.00000200 U	0.0000990	0.00195	61.6	17.5	158.	0.0000520	4,810	11.1	56.0
FC-X-2	'0-0	09/26/06	9.21	0.00000200 U	0.0000530	0.00173	52.8	11.5	141.	0.0000750	2,500	11.8	73.5
FC-Y-1	'0-0	09/27/06	9.52	0.00000200 U	0.0000540	0.00175	62.9	16.8	157.	0.0000600	1,980	9.92	38.8
FC-Y-2	'0-0	09/27/06	9.55	0.00000200 U	0.0000820	0.00201	49.4	24.7	142.	0.0000700	2,000	11.6	45.4
FC-Z-1	'0-0	09/27/06	10.9	0.00000200 U	0.0000960	0.00164	58.6	16.4	174.	0.0000550	2,150	12.7	29.7
FC-Z-2	'0-0	09/27/06	8.62	0.00000200 U	0.0000440	0.00151	50.3	15.9	155.	0.0000610	1,630	10.7	27.9
MC-W	'0-0	09/26/06	2.25	0.00000200 U	0.0000160	0.000522	6.26	0.900	25.1	0.00000200	238.	1.79	22.1
MC-X	'0-0	09/26/06	2.63	0.00000200 U	0.0000120	0.000581	6.88	1.40	29.1	0.00000100 U	352.	2.71	25.5
MC-Y	'0-0	09/27/06	2.25	0.00000200 U	0.0000120	0.000506	5.40	2.40	24.2	0.00000100	217.	2.05	23.0
MC-Z	'0-0	09/27/06	2.35	0.00000200 U	0.0000130	0.000492	7.20	1.30	15.1	0.00000100 U	228.	2.38	20.1

APPENDIX N - ATTACHMENT 2-3a
DETECTED CONSTITUENTS IN BIOTA
METALS
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	Mercury mg/kg	Methyl Mercury mg/kg	MMA As As mg/kg	Vanadium mg/kg	Zinc mg/kg
FC-W-1	'0-0	09/26/06	0.162	0.0400	0.000000200 U	5.95	63.0
FC-W-2	'0-0	09/26/06	0.115	0.0700	0.000000200 U	3.98	59.9
DUP	'0-0	09/26/06	0.118	0.0600	0.000000200 U	5.03	79.6
FC-X-1	'0-0	09/26/06	0.156	0.0600	0.000000200 U	10.6	87.2
FC-X-2	'0-0	09/26/06	0.182	0.0400	0.000000200 U	5.60	67.2
FC-Y-1	'0-0	09/27/06	0.158	0.0500	0.000000200 U	4.78	78.8
FC-Y-2	'0-0	09/27/06	0.184	0.0700	0.000000200 U	4.61	72.2
FC-Z-1	'0-0	09/27/06	0.192	0.0700	0.000000200 U	5.77	81.0
FC-Z-2	'0-0	09/27/06	0.162	0.0900	0.000000200 U	3.92	75.7
MC-W	'0-0	09/26/06	0.0980	0.100	0.000000200 U	1.39	142.
MC-X	'0-0	09/26/06	0.152	0.130	0.000000200 U	1.66	159.
MC-Y	'0-0	09/27/06	0.0990	0.0800	0.000000200 U	1.46	150.
MC-Z	'0-0	09/27/06	0.119	0.130	0.000000200 U	1.63	139.

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB 206) mg/kg	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB 194) mg/kg	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (PCB 207) mg/kg	2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195) mg/kg	2,2',3,3',4,4',5,6'-Octachlorobiphenyl (PCB 196) mg/kg	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170) mg/kg	2,2',3,3',4,4',6,6'-Octachlorobiphenyl (PCB 197:(197+200)) mg/kg
FC-W-1	'0-0	9/26/2006	0.000333	0.000221	0.0000483 J	0.0000804 J	0.000169 J	0.000451	0.0000559 J
FC-W-2	'0-0	9/26/2006	0.000484	0.000660	0.0000905 J	0.000255	0.000666	0.00125	0.000137 J
FC-W-2-DUP	'0-0	9/26/2006	0.000682	0.000995	0.000114 J	0.000416	0.000871	0.00186	0.000354 J
FC-X-1	'0-0	9/26/2006	0.000556 J	0.000368	0.0000886 J	0.000115 J	0.000351	0.000835	0.000120 J
FC-X-2	'0-0	9/26/2006	0.000367	0.000256	0.0000660 J	0.000129 J	0.000257	0.000556	0.000111 J
FC-Y-1	'0-0	9/27/2006	0.000521 J	0.000273	0.0000820 J	0.000107 J	0.000255	0.000835	0.000125 J
FC-Y-2	'0-0	9/27/2006	0.000619 J	0.000344	0.0000915 J	0.000148 J	0.000343	0.000926	0.000164 J
FC-Z-1	'0-0	9/27/2006	0.000992 J	0.000649	0.000150 J	0.000233	0.000649	0.00130	0.000241
FC-Z-2	'0-0	9/27/2006	0.000747	0.000547	0.000118 J	0.000206 J	0.000479	0.000932	0.000165 J
MC-W	'0-0	9/26/2006	0.000924 J	0.00109	0.000139 J	0.000547	0.000968	0.00361	0.000276
MC-X	'0-0	9/26/2006	0.000914 J	0.00106	0.000149 J	0.000653	0.000688	0.00342	0.000306
MC-Y	'0-0	9/27/2006	0.000898 J	0.00121	0.000151 J	0.000612	0.00121	0.00377	0.000290
MC-Z	'0-0	9/27/2006	0.00109	0.00102	0.000174 J	0.000727	0.00376	0.00455	0.000347

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',3,3',4,4',6-Heptachlorobiphenyl (PCB 171:(171+173)) mg/kg	2,2',3,3',4,4'-Hexachlorobiphenyl (PCB 128:(128+166)) mg/kg	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (PCB 208) mg/kg	2,2',3,3',4,5,5',6-Octachlorobiphenyl (PCB 198:(198+199)) mg/kg	2,2',3,3',4,5,5'-Heptachlorobiphenyl (PCB 172) mg/kg	2,2',3,3',4,5',6,6'-Octachlorobiphenyl (PCB 201) mg/kg	2,2',3,3',4,5,6'-Heptachlorobiphenyl (PCB 174) mg/kg
FC-W-1	'0-0	9/26/2006	0.000178 J	0.000288	0.000159 J	0.000750	0.000161 J	0.000132 J	0.000913
FC-W-2	'0-0	9/26/2006	0.000387	0.000584	0.000229	0.00173	0.000428	0.000239 J	0.00282 J
FC-W-2-DUP	'0-0	9/26/2006	0.000683	0.000696	0.000288	0.00280	0.000598	0.000485 J	0.00510 J
FC-X-1	'0-0	9/26/2006	0.000287	0.000552	0.000289 J	0.00130	0.000296	0.000194	0.0000101 U
FC-X-2	'0-0	9/26/2006	0.000184 J	0.000327	0.000161 J	0.000871	0.000179 J	0.000161 J	0.0000115 U
FC-Y-1	'0-0	9/27/2006	0.000305	0.000568	0.000274 J	0.00118	0.000261	0.000222	0.00209
FC-Y-2	'0-0	9/27/2006	0.000374	0.000652	0.000307 J	0.00123	0.000306	0.000257	0.00207
FC-Z-1	'0-0	9/27/2006	0.000487	0.000943	0.000449 J	0.00212	0.000467	0.000395	0.00294
FC-Z-2	'0-0	9/27/2006	0.000389	0.000697	0.000365	0.00152	0.000285	0.000262	0.00213
MC-W	'0-0	9/26/2006	0.00120	0.00181	0.000437	0.00307	0.000859	0.000524	0.00347
MC-X	'0-0	9/26/2006	0.00120	0.00193	0.000475 J	0.00332	0.000674	0.000640	0.00365
MC-Y	'0-0	9/27/2006	0.00136	0.00168	0.000434 J	0.00328	0.00103	0.000558	0.00333
MC-Z	'0-0	9/27/2006	0.00166	0.00154	0.000546	0.00399	0.00102	0.000694	0.00000384 U

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',3,3',4,5',6-Heptachlorobiphenyl (PCB 175) mg/kg	2,2',3,3',4',5,6-Heptachlorobiphenyl (PCB 177) mg/kg	2,2',3,3',4,5-Hexachlorobiphenyl (PCB 129:(129+138+160+163)) mg/kg	2,2',3,3',4,5'-Hexachlorobiphenyl (PCB 130) mg/kg	2,2',3,3',4,6,6'-Heptachlorobiphenyl (PCB 176) mg/kg	2,2',3,3',4,6-Hexachlorobiphenyl (PCB 131:(131+142)) mg/kg	2,2',3,3',4,6'-Hexachlorobiphenyl (PCB 132) mg/kg
FC-W-1	'0-0	9/26/2006	0.000344	0.000431	0.00242	0.0000386 J	0.0000376 J	0.00000396 U	0.000631
FC-W-2	'0-0	9/26/2006	0.000322	0.00140	0.00509	0.000170 J	0.000163 J	0.0000242 J	0.00103
FC-W-2-DUP	'0-0	9/26/2006	0.00000804 U	0.00220	0.00625	0.0000747 J	0.00000195 U	0.00000596 U	0.00183
FC-X-1	'0-0	9/26/2006	0.000702	0.000845	0.00407	0.0000504 J	0.0000823 J	0.00000380 U	0.00106
FC-X-2	'0-0	9/26/2006	0.000575	0.000669	0.00252	0.000132	0.0000608 J	0.00000949 J	0.000745
FC-Y-1	'0-0	9/27/2006	0.00000229 U	0.00101	0.00440	0.000189	0.000000550 U	0.00000161 U	0.00105
FC-Y-2	'0-0	9/27/2006	0.00000139 U	0.000958	0.00448	0.000253	0.000000340 U	0.00000250 U	0.00149
FC-Z-1	'0-0	9/27/2006	0.00000171 U	0.00138	0.00596	0.0000867 J	0.000155 J	0.00000481 U	0.00178
FC-Z-2	'0-0	9/27/2006	0.00134	0.00104	0.00436	0.0000953 J	0.000112 J	0.00000246 U	0.00166
MC-W	'0-0	9/26/2006	0.00000168 U	0.00243	0.0134	0.000162	0.000232 J	0.00000658 U	0.00310
MC-X	'0-0	9/26/2006	0.00204	0.00253	0.0149	0.000103	0.000209	0.00000625 U	0.00336
MC-Y	'0-0	9/27/2006	0.00000253 U	0.00248	0.0143	0.000121	0.000230	0.0000110 U	0.00294
MC-Z	'0-0	9/27/2006	0.0000486 U	0.00357	0.0154	0.0000312 U	0.000340	0.0000364 U	0.00332

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',3,3',4-Pentachlorobiphenyl (PCB 082) mg/kg	2,2',3,3',5,5',6,6'-Octachlorobiphenyl (PCB 202) mg/kg	2,2',3,3',5,5',6-Heptachlorobiphenyl (PCB 178) mg/kg	2,2',3,3',5,5'-Hexachlorobiphenyl (PCB 133) mg/kg	2,2',3,3',5,6,6'-Heptachlorobiphenyl (PCB 179) mg/kg	2,2',3,3',5,6'-Hexachlorobiphenyl (PCB 135:(135+151+154)) mg/kg	2,2',3,3',5-Pentachlorobiphenyl (PCB 083:(83+99)) mg/kg
FC-W-1	'0-0	9/26/2006	0.0000907 J	0.000209 J	0.000425	0.0000221 J	0.000185	0.000373	0.00110
FC-W-2	'0-0	9/26/2006	0.000371	0.000391 J	0.00138	0.000117	0.000522 J	0.00114 J	0.00183
FC-W-2-DUP	'0-0	9/26/2006	0.000257	0.000632 J	0.00194	0.000115 J	0.00102 J	0.00361 J	0.00202
FC-X-1	'0-0	9/26/2006	0.00000376 U	0.000355 J	0.000837	0.00000357 U	0.000363	0.000723	0.000183
FC-X-2	'0-0	9/26/2006	0.000233	0.000276 J	0.000514	0.00000127 U	0.000285	0.000520	0.000207
FC-Y-1	'0-0	9/27/2006	0.000170	0.000345 J	0.000822	0.0000677 J	0.000361	0.000739	0.00200
FC-Y-2	'0-0	9/27/2006	0.000444	0.000396 J	0.000827	0.0000820 J	0.000537	0.000916	0.00201
FC-Z-1	'0-0	9/27/2006	0.0000277 U	0.000594 J	0.00120	0.000142	0.000569	0.00109	0.00277
FC-Z-2	'0-0	9/27/2006	0.0000421 U	0.000460 J	0.000803	0.0000979 J	0.000454	0.00112	0.00207
MC-W	'0-0	9/26/2006	0.000421	0.000771 J	0.00217	0.000216	0.00101	0.00301	0.00500
MC-X	'0-0	9/26/2006	0.000000560 U	0.000832 J	0.00220	0.000239	0.000690	0.00341	0.00474
MC-Y	'0-0	9/27/2006	0.000000600 U	0.000771 J	0.00227	0.000125	0.000956	0.00320	0.00443
MC-Z	'0-0	9/27/2006	0.0000448 U	0.000984 J	0.00279	0.0000342 U	0.00126	0.00392	0.00669

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',3,3',6,6'-Hexachlorobiphenyl (PCB 136) mg/kg	2,2',3,3',6-Pentachlorobiphenyl (PCB 084) mg/kg	2,2',3,4,4',5,5',6-Octachlorobiphenyl (PCB 203) mg/kg	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180:(180+193)) mg/kg	2,2',3,4,4',5,6,6'-Octachlorobiphenyl (PCB 204) mg/kg	2,2',3,4,4',5,6-Heptachlorobiphenyl (PCB 181) mg/kg	2,2',3,4,4',5,6'-Heptachlorobiphenyl (PCB 182) mg/kg
FC-W-1	'0-0	9/26/2006	0.0000403 J	0.0000831 J	0.000514	0.00191	0.0000288 J	0.00000969 U	0.00000424 U
FC-W-2	'0-0	9/26/2006	0.000171 J	0.000222	0.00109	0.00489	0.0000441 J	0.00000953 U	0.00000385 U
FC-W-2-DUP	'0-0	9/26/2006	0.000571 J	0.000211	0.00191	0.00789	0.0000110 J	0.0000492 J	0.00000960 U
FC-X-1	'0-0	9/26/2006	0.000100	0.000197	0.000854	0.00364	0.00000158 U	0.00000812 U	0.00000667 U
FC-X-2	'0-0	9/26/2006	0.0000814	0.000186	0.000592	0.00230	0.00000301 U	0.00000919 U	0.00000386 U
FC-Y-1	'0-0	9/27/2006	0.000106	0.000000910 U	0.000825	0.00337	0.00000572 U	0.00000761 J	0.00000273 U
FC-Y-2	'0-0	9/27/2006	0.000178	0.000419	0.000817	0.00355	0.00000555 J	0.00000656 U	0.00000166 U
FC-Z-1	'0-0	9/27/2006	0.000128	0.000255	0.00133	0.00550	0.000000850 U	0.00000127 U	0.00000204 U
FC-Z-2	'0-0	9/27/2006	0.000193	0.000236	0.000949	0.00360	0.00000275 U	0.0000134 U	0.00000157 U
MC-W	'0-0	9/26/2006	0.000591	0.000842	0.00198	0.0116	0.00000961 J	0.0000620 J	0.00000201 U
MC-X	'0-0	9/26/2006	0.000506	0.000000410 U	0.00263	0.0121	0.00000242 U	0.00000151 U	0.00000335 U
MC-Y	'0-0	9/27/2006	0.000000310 U	0.000615	0.00192	0.0130	0.0000239 J	0.0000235 U	0.00000302 U
MC-Z	'0-0	9/27/2006	0.000696	0.00146	0.0000280 U	0.0153	0.0000192 U	0.00000308 U	0.0000580 U

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',3,4,4',5',6-Heptachlorobiphenyl (PCB 183) mg/kg	2,2',3,4,4',5-Hexachlorobiphenyl (PCB 137) mg/kg	2,2',3,4,4',6,6'-Heptachlorobiphenyl (PCB 184) mg/kg	2,2',3,4,4',6-Hexachlorobiphenyl (PCB 139:(139+140)) mg/kg	2,2',3,4,4'-Pentachlorobiphenyl (PCB 085:(85+116+117)) mg/kg	2,2',3,4,5,5',6-Heptachlorobiphenyl (PCB 185) mg/kg	2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187) mg/kg
FC-W-1	'0-0	9/26/2006	0.000345	0.00000250 U	0.000000740 U	0.00000296 U	0.000742	0.0000140 U	0.00364
FC-W-2	'0-0	9/26/2006	0.000507 J	0.000480 J	0.000000670 U	0.0000645 J	0.000691 J	0.0000138 U	0.0108
FC-W-2-DUP	'0-0	9/26/2006	0.00174 J	0.00000375 UJ	0.00000168 U	0.0000346 J	0.00130 J	0.00000250 U	0.0159
FC-X-1	'0-0	9/26/2006	0.000720	0.00000239 U	0.00000117 U	0.0000595 J	0.000402	0.00240	0.00672
FC-X-2	'0-0	9/26/2006	0.000500	0.000000850 U	0.000000680 U	0.0000324 J	0.000781	0.00161	0.00428
FC-Y-1	'0-0	9/27/2006	0.000814	0.00000101 U	0.000000480 U	0.0000370 J	0.000778	0.00000833 U	0.00706
FC-Y-2	'0-0	9/27/2006	0.000673	0.000161 J	0.000000290 U	0.0000505 J	0.00137	0.00000951 U	0.00714
FC-Z-1	'0-0	9/27/2006	0.00106	0.00000303 U	0.000000360 U	0.000113	0.00123	0.00000185 U	0.0105
FC-Z-2	'0-0	9/27/2006	0.000889	0.000911	0.000000270 U	0.000110	0.00135	0.0000195 U	0.00545
MC-W	'0-0	9/26/2006	0.00225	0.00000414 U	0.000000350 U	0.000119	0.00390	0.00000137 U	0.0184
MC-X	'0-0	9/26/2006	0.00245	0.00000394 U	0.000000590 U	0.000166	0.00227	0.00000219 U	0.0174
MC-Y	'0-0	9/27/2006	0.00251	0.00000692 U	0.000000530 U	0.0000587 J	0.00202	0.0000341 U	0.0193
MC-Z	'0-0	9/27/2006	0.00000208 U	0.0000229 U	0.0000102 U	0.0000272 U	0.0000288 U	0.00000447 U	0.0233

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',3,4,5,5'-Hexachlorobiphenyl (PCB 141) mg/kg	2,2',3,4',5,5'-Hexachlorobiphenyl (PCB 146) mg/kg	2,2',3,4,5,6,6'-Heptachlorobiphenyl (PCB 186) mg/kg	2,2',3,4',5,6,6'-Heptachlorobiphenyl (PCB 188) mg/kg	2,2',3,4,5,6'-Hexachlorobiphenyl (PCB 143) mg/kg	2,2',3,4,5',6-Hexachlorobiphenyl (PCB 144) mg/kg	2,2',3,4',5,6-Hexachlorobiphenyl (PCB 147:(147+134+149)) mg/kg
FC-W-1	'0-0	9/26/2006	0.000377	0.000237	0.000000810 UJ	0.000000650 U	0.00000199 U	0.00000342 U	0.00000451 U
FC-W-2	'0-0	9/26/2006	0.00138	0.00000396 U	0.000000730 U	0.000000890 UJ	0.00000388 U	0.000142 J	0.00726
FC-W-2-DUP	'0-0	9/26/2006	0.00142	0.000962 J	0.00000183 UJ	0.00000148 U	0.00000299 U	0.00171 J	0.0114
FC-X-1	'0-0	9/26/2006	0.00000370 U	0.0000343 J	0.00000127 UJ	0.00000107 U	0.00000190 U	0.000249	0.00668
FC-X-2	'0-0	9/26/2006	0.000550	0.0000309 J	0.000000730 UJ	0.000000590 U	0.000000680 U	0.000191	0.00418
FC-Y-1	'0-0	9/27/2006	0.000798	0.000556	0.000000520 U	0.000000370 UJ	0.000000810 U	0.0000623 J	0.00664
FC-Y-2	'0-0	9/27/2006	0.000947	0.000623	0.000000320 U	0.000000230 UJ	0.00000125 U	0.000842	0.00703
FC-Z-1	'0-0	9/27/2006	0.00000469 U	0.000892	0.000000390 U	0.000000310 UJ	0.00000241 U	0.00140	0.00927
FC-Z-2	'0-0	9/27/2006	0.00000239 U	0.000627	0.000000300 U	0.000000290 UJ	0.00000123 U	0.000151	0.00939
MC-W	'0-0	9/26/2006	0.00224	0.00160	0.000000380 U	0.000000300 UJ	0.00000330 U	0.000739	0.0147
MC-X	'0-0	9/26/2006	0.00249	0.00177	0.000000640 U	0.000000430 UJ	0.00000313 U	0.00175	0.0161
MC-Y	'0-0	9/27/2006	0.00158	0.00161	0.000000580 U	0.000000460 UJ	0.00000551 U	0.00238	0.0131
MC-Z	'0-0	9/27/2006	0.0000355 U	0.00178	0.0000110 U	0.00000708 UJ	0.0000182 U	0.0000183 J	0.0174

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',3,4',5,6'-Hexachlorobiphenyl (PCB 148) mg/kg	2,2',3,4,5-Pentachlorobiphenyl (PCB 086:(86+97+108+119)) mg/kg	2,2',3,4',5-Pentachlorobiphenyl (PCB 090:(90+101+113)) mg/kg	2,2',3,4,6,6'-Hexachlorobiphenyl (PCB 145) mg/kg	2,2',3,4,6-Pentachlorobiphenyl (PCB 088:(88+91)) mg/kg	2,2',3,4,6'-Pentachlorobiphenyl (PCB 089) mg/kg	2,2',3',4,6-Pentachlorobiphenyl (PCB 098:(98+102)) mg/kg
FC-W-1	'0-0	9/26/2006	0.00000100 J	0.000656	0.00153	0.00000202 U	0.000301	0.00000489 U	0.00000381 U
FC-W-2	'0-0	9/26/2006	0.0000101 J	0.000876	0.00279	0.000000580 U	0.000376	0.00000161 U	0.0000611 J
FC-W-2-DUP	'0-0	9/26/2006	0.00000606 U	0.00135	0.00339	0.00000366 U	0.000597	0.00000804 U	0.0000527 J
FC-X-1	'0-0	9/26/2006	0.00000149 J	0.000619	0.00296	0.000000290 U	0.000507	0.00000279 U	0.0000501 J
FC-X-2	'0-0	9/26/2006	0.00000581 U	0.000902	0.00172	0.00000351 U	0.000357	0.0000156 J	0.0000459 J
FC-Y-1	'0-0	9/27/2006	0.00000623 J	0.00119	0.00291	0.000000130 U	0.000263	0.000000920 U	0.000000720 U
FC-Y-2	'0-0	9/27/2006	0.00000453 J	0.00164	0.00310	0.000000180 U	0.000801	0.00000484 U	0.000115
FC-Z-1	'0-0	9/27/2006	0.00000353 U	0.00157	0.00429	0.00000214 U	0.000904	0.0000205 U	0.0000944 J
FC-Z-2	'0-0	9/27/2006	0.000000540 U	0.000932	0.00346	0.000000330 U	0.000902	0.0000312 U	0.0000243 U
MC-W	'0-0	9/26/2006	0.0000138 J	0.00378	0.00781	0.00000199 U	0.00210	0.000000490 U	0.000270
MC-X	'0-0	9/26/2006	0.000000410 U	0.00209	0.00765	0.000000250 U	0.00221	0.000000420 U	0.000000330 U
MC-Y	'0-0	9/27/2006	0.00000633 J	0.00188	0.00680	0.000000200 U	0.00204	0.000000440 U	0.000000340 U
MC-Z	'0-0	9/27/2006	0.0000228 J	0.00385	0.0102	0.000000940 U	0.00306	0.0000362 J	0.0000259 U

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',3,4-Tetrachlorobiphenyl (PCB 041:(41+71+40)) mg/kg	2,2',3,4'-Tetrachlorobiphenyl (PCB 042) mg/kg	2,2',3,5,5'-Pentachlorobiphenyl (PCB 092) mg/kg	2,2',3,5,6,6'-Hexachlorobiphenyl (PCB 152:(152+150)) mg/kg	2,2',3,5,6'-Pentachlorobiphenyl (PCB 094) mg/kg	2,2',3,5',6-Pentachlorobiphenyl (PCB 095:(95+93+100)) mg/kg	2,2',3,5'-Tetrachlorobiphenyl (PCB 044:(44+47+65)) mg/kg
FC-W-1	'0-0	9/26/2006	0.000439	0.000733	0.000157	0.00000239 U	0.00000455 U	0.000393	0.00124
FC-W-2	'0-0	9/26/2006	0.000660 J	0.00110	0.000570	0.00000542 J	0.00000149 U	0.000685	0.00176
FC-W-2-DUP	'0-0	9/26/2006	0.00000944 UJ	0.000824	0.000664	0.00000434 U	0.00000747 U	0.000931	0.00162
FC-X-1	'0-0	9/26/2006	0.000392	0.000585	0.000612	0.000000340 U	0.0000253 J	0.000692	0.00153
FC-X-2	'0-0	9/26/2006	0.000888	0.000815	0.000363	0.00000416 U	0.00000905 J	0.000663	0.00124
FC-Y-1	'0-0	9/27/2006	0.000986	0.00133	0.000411	0.00000128 J	0.000000850 U	0.000431	0.00250
FC-Y-2	'0-0	9/27/2006	0.00151	0.00132	0.000713	0.00000380 J	0.00000450 U	0.00137	0.00233
FC-Z-1	'0-0	9/27/2006	0.000681	0.000895	0.000980	0.00000550 J	0.0000191 U	0.00106	0.00263
FC-Z-2	'0-0	9/27/2006	0.000669	0.000329	0.000820	0.000000390 U	0.0000290 U	0.00102	0.00138
MC-W	'0-0	9/26/2006	0.00584	0.00241	0.00217	0.00000879 J	0.000000460 U	0.00821	0.00804
MC-X	'0-0	9/26/2006	0.00448	0.00141	0.00227	0.000000300 U	0.000000390 U	0.00818 E	0.00756
MC-Y	'0-0	9/27/2006	0.00560	0.00175	0.00214	0.000000230 U	0.000000410 U	0.00706	0.00841
MC-Z	'0-0	9/27/2006	0.00365	0.00281	0.00309	0.00000112 U	0.0000309 U	0.0124	0.0102

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',3,6,6'-Pentachlorobiphenyl (PCB 096) mg/kg	2,2',3,6-Tetrachlorobiphenyl (PCB 045:(45+51)) mg/kg	2,2',3,6'-Tetrachlorobiphenyl (PCB 046) mg/kg	2,2',3-Trichlorobiphenyl (PCB 016) mg/kg	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153:(153+168)) mg/kg	2,2',4,4',6,6'-Hexachlorobiphenyl (PCB 155) mg/kg	2,2',4,5',6-Pentachlorobiphenyl (PCB 103) mg/kg
FC-W-1	'0-0	9/26/2006	0.000000180 U	0.0000252 J	0.000000690 U	0.0000469	0.00210	0.00000334 J	0.00000417 U
FC-W-2	'0-0	9/26/2006	0.00000109 U	0.0000731	0.00000652 J	0.0000863	0.00473	0.0000155 J	0.0000116 J
FC-W-2-DUP	'0-0	9/26/2006	0.000000200 U	0.0000700	0.0000102 U	0.000103	0.00681	0.0000151 J	0.0000213 J
FC-X-1	'0-0	9/26/2006	0.000000310 U	0.0000590	0.00000258 U	0.0000721	0.00407	0.0000114 J	0.00000238 U
FC-X-2	'0-0	9/26/2006	0.000000880 U	0.0000635	0.00000751 J	0.0000917	0.00218	0.0000140 J	0.0000239 J
FC-Y-1	'0-0	9/27/2006	0.000000760 U	0.0000462	0.00000176 U	0.0000668	0.00359	0.0000104 J	0.000000780 U
FC-Y-2	'0-0	9/27/2006	0.00000307 J	0.000102	0.00000104 U	0.000109	0.00356	0.0000120 J	0.00000412 U
FC-Z-1	'0-0	9/27/2006	0.00000307 U	0.0000637	0.0000210 U	0.000000740 U	0.00616	0.0000160 J	0.0000175 U
FC-Z-2	'0-0	9/27/2006	0.000000590 U	0.0000919	0.0000120 U	0.00000483 U	0.00424	0.0000271 J	0.0000324 J
MC-W	'0-0	9/26/2006	0.0000149 J	0.000640	0.0000408 J	0.000545	0.0151	0.0000288 J	0.000136
MC-X	'0-0	9/26/2006	0.0000132 J	0.000645	0.000000600 U	0.000281	0.0163	0.000000340 U	0.000000360 U
MC-Y	'0-0	9/27/2006	0.0000183 J	0.000671	0.0000447	0.000486	0.0154	0.0000398 J	0.000000380 U
MC-Z	'0-0	9/27/2006	0.0000206 J	0.000917	0.0000270 U	0.000606	0.0196	0.0000489 J	0.000107 J

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',4,5-Tetrachlorobiphenyl (PCB 048) mg/kg	2,2',4,5'-Tetrachlorobiphenyl (PCB 049:(49+69)) mg/kg	2,2',4,6,6'-Pentachlorobiphenyl (PCB 104) mg/kg	2,2',4,6-Tetrachlorobiphenyl (PCB 050:(50+53)) mg/kg	2,2',4-Trichlorobiphenyl (PCB 017) mg/kg	2,2',5,5'-Tetrachlorobiphenyl (PCB 052:(52+43+73)) mg/kg	2,2',5-Trichlorobiphenyl mg/kg
FC-W-1	'0-0	9/26/2006	0.000000540 U	0.00162	0.000000630 J	0.0000213 J	0.000199	0.000626	0.000104 J
FC-W-2	'0-0	9/26/2006	0.000357 J	0.00220	0.00000180 UJ	0.0000487	0.000416	0.00120	0.000282
FC-W-2-DUP	'0-0	9/26/2006	0.000851 J	0.00296	0.000000380 U	0.0000549	0.000404	0.00150	0.000230
FC-X-1	'0-0	9/26/2006	0.000594	0.00251	0.000000600 U	0.0000467	0.000332	0.00126	0.000171
FC-X-2	'0-0	9/26/2006	0.000520	0.00199	0.00000178 U	0.0000503	0.000269	0.00105	0.000195
FC-Y-1	'0-0	9/27/2006	0.00000138 U	0.00283	0.00000138 U	0.0000332 J	0.000328	0.00132	0.000188
FC-Y-2	'0-0	9/27/2006	0.000432	0.00291	0.000000390 U	0.0000816	0.000440	0.00185	0.000315
FC-Z-1	'0-0	9/27/2006	0.0000165 U	0.00304	0.00000549 U	0.0000191 U	0.000382	0.00182	0.000177
FC-Z-2	'0-0	9/27/2006	0.000927	0.00285	0.000000990 U	0.0000733	0.000465	0.00164	0.000254
MC-W	'0-0	9/26/2006	0.000000960 U	0.00549	0.000000350 U	0.000434	0.000812	0.00833	0.00103
MC-X	'0-0	9/26/2006	0.000000470 U	0.00550	0.00000400 J	0.000466	0.000827	0.00801	0.00107
MC-Y	'0-0	9/27/2006	0.000000720 U	0.00586	0.00000383 J	0.000363	0.000747	0.00771	0.000959
MC-Z	'0-0	9/27/2006	0.0000212 U	0.00729	0.0000112 U	0.000582	0.00104	0.0111	0.00132

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,2',6,6'-Tetrachlorobiphenyl (PCB 054) mg/kg	2,2',6-Trichlorobiphenyl (PCB 019) mg/kg	2,2'-Dichlorobiphenyl (PCB 004) mg/kg	2,3,3',4,4',5,5',6-Octachlorobiphenyl (PCB 205) mg/kg	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189) mg/kg	2,3,3',4,4',5,6-Heptachlorobiphenyl (PCB 190) mg/kg	2,3,3',4,4',5',6-Heptachlorobiphenyl (PCB 191) mg/kg
FC-W-1	'0-0	9/26/2006	0.00000111 U	0.00000181 U	0.00000588 U	0.0000111 U	0.0000180 U	0.0000714 J	0.00000881 U
FC-W-2	'0-0	9/26/2006	0.00000196 U	0.00000882 J	0.0000410 J	0.0000227 J	0.0000596 J	0.000262	0.0000796 J
FC-W-2-DUP	'0-0	9/26/2006	0.00000496 U	0.00000562 J	0.0000330 J	0.0000578 J	0.00000307 U	0.000311	0.00000157 U
FC-X-1	'0-0	9/26/2006	0.00000259 U	0.00000923 J	0.0000297 J	0.00000477 U	0.0000533 J	0.000136	0.00000739 U
FC-X-2	'0-0	9/26/2006	0.00000555 U	0.0000105 J	0.0000301 J	0.00000953 U	0.0000139 J	0.000105 J	0.00000836 U
FC-Y-1	'0-0	9/27/2006	0.00000455 U	0.00000568 UJ	0.0000262 J	0.0000251 U	0.0000126 UJ	0.000143	0.00000522 U
FC-Y-2	'0-0	9/27/2006	0.000000910 U	0.0000103 J	0.0000367 J	0.0000163 J	0.0000427 J	0.000166	0.00000596 U
FC-Z-1	'0-0	9/27/2006	0.000000740 U	0.000000770 U	0.0000261 J	0.0000280 J	0.0000271 J	0.000196	0.00000116 U
FC-Z-2	'0-0	9/27/2006	0.00000465 U	0.00000443 U	0.00000424 U	0.00000670 U	0.0000579 J	0.000157	0.0000122 U
MC-W	'0-0	9/26/2006	0.00000967 J	0.000146	0.000213	0.0000654 J	0.000123	0.000606	0.000000860 U
MC-X	'0-0	9/26/2006	0.00000305 U	0.000142	0.000213 J	0.0000418 UJ	0.00000360 UJ	0.000524	0.00000138 U
MC-Y	'0-0	9/27/2006	0.00000128 U	0.000158	0.000197	0.0000312 U	0.0000432 UJ	0.000597	0.0000214 U
MC-Z	'0-0	9/27/2006	0.0000167 U	0.000200	0.000275	0.0000686 U	0.00000671 U	0.000801	0.00000280 U

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156:(156+157)) mg/kg	2,3,3',4,4',6-Hexachlorobiphenyl (PCB 158) mg/kg	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105) mg/kg	2,3,3',4,5,5',6-Heptachlorobiphenyl (PCB 192) mg/kg	2,3,3',4,5,5'-Hexachlorobiphenyl (PCB 159) mg/kg	2,3,3',4',5,5'-Hexachlorobiphenyl (PCB 162) mg/kg	2,3,3',4,5',6-Hexachlorobiphenyl (PCB 161) mg/kg
FC-W-1	'0-0	9/26/2006	0.000214 J	0.000131	0.000570	0.00000882 U	0.0000200 J	0.0000205 J	0.00000436 U
FC-W-2	'0-0	9/26/2006	0.000331	0.000431	0.000726	0.00000867 U	0.0000652 J	0.0000600 J	0.00000851 U
FC-W-2-DUP	'0-0	9/26/2006	0.000465	0.000365	0.000962	0.00000157 U	0.0000981 J	0.000114 J	0.00000656 U
FC-X-1	'0-0	9/26/2006	0.000421 J	0.000255	0.00103	0.00000740 U	0.0000326 J	0.0000532 J	0.00116
FC-X-2	'0-0	9/26/2006	0.000215	0.000194	0.000569	0.00000837 U	0.0000168 J	0.0000318 J	0.000743
FC-Y-1	'0-0	9/27/2006	0.000377	0.000367	0.000792	0.00000523 U	0.0000352 J	0.0000474 J	0.00000177 U
FC-Y-2	'0-0	9/27/2006	0.000393 J	0.000380	0.00102	0.00000597 U	0.0000457 J	0.0000534 J	0.00000275 U
FC-Z-1	'0-0	9/27/2006	0.000611 J	0.000362	0.00147	0.00000116 U	0.0000661 J	0.0000558 J	0.00000530 U
FC-Z-2	'0-0	9/27/2006	0.000446 J	0.000269	0.00111	0.0000122 U	0.00000466 U	0.00000459 U	0.00000270 U
MC-W	'0-0	9/26/2006	0.00126	0.000838	0.00355	0.000336	0.0000819 J	0.000165 J	0.00000724 U
MC-X	'0-0	9/26/2006	0.00137 J	0.000981	0.00391	0.00000138 U	0.000134 J	0.000117 J	0.00000688 U
MC-Y	'0-0	9/27/2006	0.00127 J	0.000754	0.00350	0.0000214 U	0.0000705 J	0.000113 J	0.0000121 U
MC-Z	'0-0	9/27/2006	0.00143 J	0.0000213 U	0.00488	0.00000280 U	0.00000208 U	0.00000204 U	0.0000400 U

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,3,3',4',5',6-Hexachlorobiphenyl (PCB 164) mg/kg	2,3,3',4,5-Pentachlorobiphenyl (PCB 106) mg/kg	2,3,3',4',5-Pentachlorobiphenyl (PCB 107:(107+124)) mg/kg	2',3,3',4,5-Pentachlorobiphenyl (PCB 122:(122+114)) mg/kg	2,3,3',4,6-Pentachlorobiphenyl (PCB 109) mg/kg	2,3,3',4',6-Pentachlorobiphenyl (PCB 110:(110+115)) mg/kg	2,3,3',4-Tetrachlorobiphenyl (PCB 055) mg/kg
FC-W-1	'0-0	9/26/2006	0.000501	0.000486	0.0000740 J	0.000000990 U	0.000108	0.00233	0.00000175 U
FC-W-2	'0-0	9/26/2006	0.00000638 UJ	0.0000207 UJ	0.0000630 J	0.0000156 J	0.000157	0.00457	0.0000172 J
FC-W-2-DUP	'0-0	9/26/2006	0.00155 J	0.000727 J	0.000111 J	0.0000199 J	0.000196	0.00410	0.00000175 U
FC-X-1	'0-0	9/26/2006	0.000690	0.000556	0.000125 J	0.00000141 U	0.000243	0.00342	0.000000980 U
FC-X-2	'0-0	9/26/2006	0.000596	0.000277	0.0000610 J	0.0000220 J	0.000132	0.00265	0.00000278 U
FC-Y-1	'0-0	9/27/2006	0.000793	0.00000102 U	0.000000650 U	0.000000590 U	0.000119	0.00467	0.00000152 U
FC-Y-2	'0-0	9/27/2006	0.000719	0.000285	0.000101 J	0.0000133 J	0.000229	0.00494	0.00000162 U
FC-Z-1	'0-0	9/27/2006	0.00134	0.000931	0.000130 J	0.0000896 J	0.0000868	0.00572	0.00000162 U
FC-Z-2	'0-0	9/27/2006	0.00000203 U	0.00127	0.0000746 U	0.0000673 U	0.0000414 U	0.00478	0.00000132 U
MC-W	'0-0	9/26/2006	0.00202	0.00181	0.000171 J	0.00000240 U	0.000568	0.0107	0.00000381 U
MC-X	'0-0	9/26/2006	0.000842	0.00217	0.000117 J	0.00000150 U	0.000766	0.00945	0.00000365 U
MC-Y	'0-0	9/27/2006	0.00000906 U	0.000000940 U	0.0000404 J	0.000000550 U	0.000310	0.00908	0.00000269 U
MC-Z	'0-0	9/27/2006	0.0000300 U	0.00000545 U	0.00000351 U	0.00000317 U	0.00117	0.0182	0.00000410 U

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,3,3',4'-Tetrachlorobiphenyl (PCB 056) mg/kg	2,3,3',5,5',6-Hexachlorobiphenyl (PCB 165) mg/kg	2,3,3',5,5'-Pentachlorobiphenyl (PCB 111) mg/kg	2,3,3',5,6-Pentachlorobiphenyl (PCB 112) mg/kg	2,3,3',5-Tetrachlorobiphenyl (PCB 057) mg/kg	2,3,3',5'-Tetrachlorobiphenyl (PCB 058) mg/kg	2,3,3',6-Tetrachlorobiphenyl (PCB 059:(59+62+75)) mg/kg
FC-W-1	'0-0	9/26/2006	0.000438	0.0000120 J	0.00000288 U	0.00000467 U	0.00000170 U	0.00000120 U	0.000000430 U
FC-W-2	'0-0	9/26/2006	0.000612	0.000970 J	0.00000253 J	0.00000153 U	0.00000725 J	0.0000156 J	0.000111
FC-W-2-DUP	'0-0	9/26/2006	0.000831	0.00000388 UJ	0.00000474 U	0.00000767 U	0.00000170 U	0.00000120 U	0.000187
FC-X-1	'0-0	9/26/2006	0.000770	0.0000681 J	0.00000164 U	0.00212	0.000000950 U	0.000000670 U	0.0000823
FC-X-2	'0-0	9/26/2006	0.000639	0.0000330 J	0.00000103 U	0.00139	0.00000270 U	0.0000240 J	0.000167
FC-Y-1	'0-0	9/27/2006	0.000756	0.00000104 U	0.000000540 U	0.000000880 U	0.00000148 U	0.00000104 U	0.000179
FC-Y-2	'0-0	9/27/2006	0.00104	0.00000162 U	0.00000285 U	0.00000462 U	0.0000150 J	0.0000622 J	0.000290
FC-Z-1	'0-0	9/27/2006	0.00109	0.00000313 U	0.0000121 U	0.0000196 U	0.00000158 U	0.00000111 U	0.0000131 U
FC-Z-2	'0-0	9/27/2006	0.00110	0.00000160 U	0.0000184 U	0.0000298 U	0.00000128 U	0.0000908 J	0.000120
MC-W	'0-0	9/26/2006	0.000955	0.00000428 U	0.000000290 U	0.000000470 U	0.00000370 U	0.00000261 U	0.000902
MC-X	'0-0	9/26/2006	0.000829	0.00000406 U	0.000000250 U	0.000000400 U	0.000267	0.00000250 U	0.000638
MC-Y	'0-0	9/27/2006	0.000735	0.00000715 U	0.000000260 U	0.000000420 U	0.00000261 U	0.00000184 U	0.000747
MC-Z	'0-0	9/27/2006	0.000424	0.0000237 U	0.0000196 U	0.0000317 U	0.00000398 U	0.00000281 U	0.000379

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,3,3'-Trichlorobiphenyl (PCB 020:(20+28)) mg/kg	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167) mg/kg	2,3,4,4',5-Pentachlorobiphenyl (PCB 114) mg/kg	2,3',4,4',5-Pentachlorobiphenyl (PCB 118) mg/kg	2',3,4,4',5-Pentachlorobiphenyl (PCB 123) mg/kg	2,3,4,4'-Tetrachlorobiphenyl (PCB 060) mg/kg	2,3',4,4'-Tetrachlorobiphenyl (PCB 066) mg/kg
FC-W-1	'0-0	9/26/2006	0.00113	0.000144	0.00000105 U	0.00160	0.000000960 UJ	0.000143	0.00116
FC-W-2	'0-0	9/26/2006	0.00190	0.000216	0.0000410 J	0.00213	0.0000490 J	0.000287 J	0.00168 J
FC-W-2-DUP	'0-0	9/26/2006	0.00229	0.000295	0.0000317 J	0.00301	0.00000392 UJ	0.00165 J	0.00993 J
FC-X-1	'0-0	9/26/2006	0.00172	0.000249	0.00000152 U	0.00268 J	0.00000137 UJ	0.000348	0.00235
FC-X-2	'0-0	9/26/2006	0.00148	0.000128	0.0000303 J	0.00165	0.00000112 U	0.000200	0.00154
FC-Y-1	'0-0	9/27/2006	0.00195	0.000231	0.000000620 U	0.00245	0.000000600 U	0.000330	0.00225
FC-Y-2	'0-0	9/27/2006	0.00213	0.000243 J	0.0000277 J	0.00290 J	0.000000470 UJ	0.000324	0.00248
FC-Z-1	'0-0	9/27/2006	0.00186	0.000370 J	0.00000142 UJ	0.00443 J	0.000212 J	0.000448	0.00333
FC-Z-2	'0-0	9/27/2006	0.00249	0.000274 J	0.0000798 U	0.00312	0.0000643 UJ	0.000393	0.00235
MC-W	'0-0	9/26/2006	0.00498	0.000683	0.000136	0.00952 E	0.00000235 UJ	0.00159	0.00957
MC-X	'0-0	9/26/2006	0.00651	0.000807 J	0.000227 J	0.0104 E	0.00000151 UJ	0.00158	0.0101
MC-Y	'0-0	9/27/2006	0.00638	0.000731 J	0.000000630 U	0.0111	0.000000560 UJ	0.00144	0.0100
MC-Z	'0-0	9/27/2006	0.00501	0.000723 J	0.000299	0.0127 J	0.00000361 U	0.00258	0.0169

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,3',4,5,5'-Pentachlorobiphenyl (PCB 120) mg/kg	2,3',4,5',6-Pentachlorobiphenyl (PCB 121) mg/kg	2,3,4',5-Tetrachlorobiphenyl (PCB 063) mg/kg	2,3',4,5-Tetrachlorobiphenyl (PCB 067) mg/kg	2,3',4,5'-Tetrachlorobiphenyl (PCB 068) mg/kg	2,3',4',5-Tetrachlorobiphenyl (PCB 070:(70+61+74+76)) mg/kg	2,3,4',6-Tetrachlorobiphenyl (PCB 064) mg/kg
FC-W-1	'0-0	9/26/2006	0.00000288 U	0.00000303 U	0.00000159 U	0.00000209 U	0.00000150 U	0.00297	0.000522
FC-W-2	'0-0	9/26/2006	0.0000148 J	0.00000101 J	0.000147	0.0000640 J	0.0000243 J	0.00294 J	0.00128 J
FC-W-2-DUP	'0-0	9/26/2006	0.00000473 U	0.00000498 U	0.00000158 U	0.000158 J	0.0000732 J	0.0161 J	0.00000989 UJ
FC-X-1	'0-0	9/26/2006	0.00000164 U	0.00000173 U	0.0000900	0.00000116 U	0.0000336 J	0.00522	0.000714
FC-X-2	'0-0	9/26/2006	0.0000128 J	0.00000108 U	0.000115 J	0.0000904 J	0.0000264 J	0.00347	0.000886
FC-Y-1	'0-0	9/27/2006	0.000000540 U	0.000000570 U	0.000107	0.00000181 U	0.00000130 U	0.00442	0.00143
FC-Y-2	'0-0	9/27/2006	0.00000285 U	0.00000300 U	0.000147	0.000108 J	0.0000290 J	0.00552	0.00154
FC-Z-1	'0-0	9/27/2006	0.0000121 U	0.0000127 U	0.00000147 U	0.00000193 U	0.00000139 U	0.00804	0.000962
FC-Z-2	'0-0	9/27/2006	0.0000184 U	0.0000193 U	0.00000120 U	0.00000157 U	0.0000327 J	0.00644	0.000326
MC-W	'0-0	9/26/2006	0.000000290 U	0.000000300 U	0.000320	0.00000453 U	0.0000788 J	0.0141	0.00618
MC-X	'0-0	9/26/2006	0.000000250 U	0.000000260 U	0.00000330 U	0.00000435 U	0.0000778 J	0.0159	0.00490
MC-Y	'0-0	9/27/2006	0.000000260 U	0.000000270 U	0.00000243 U	0.00000320 U	0.00000230 U	0.0165	0.00588
MC-Z	'0-0	9/27/2006	0.0000196 U	0.0000206 U	0.00000370 U	0.00000487 U	0.00000351 U	0.0165	0.00885

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN BIOTA
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,3,4-Trichlorobiphenyl (PCB 021:(21+33)) mg/kg	2,3,4'-Trichlorobiphenyl (PCB 022) mg/kg	2,3',4-Trichlorobiphenyl (PCB 025) mg/kg	2,3',5,5'-Tetrachlorobiphenyl (PCB 072) mg/kg	2,3,5-Trichlorobiphenyl (PCB 023) mg/kg	2,3',5-Trichlorobiphenyl (PCB 026:(26+29)) mg/kg	2',3,5-Trichlorobiphenyl (PCB 034) mg/kg
FC-W-1	'0-0	9/26/2006	0.00000409 U	0.000141	0.00000425 U	0.00000163 U	0.00000458 U	0.00000403 U	0.00000420 U
FC-W-2	'0-0	9/26/2006	0.000171	0.000412	0.000194	0.0000347 J	0.00000863 U	0.000227	0.00000793 U
FC-W-2-DUP	'0-0	9/26/2006	0.0000980	0.000405	0.000133	0.000133 J	0.00000715 U	0.000376	0.00000657 U
FC-X-1	'0-0	9/26/2006	0.000000580 U	0.000368	0.000147	0.0000578 J	0.000000650 U	0.000260	0.000000600 U
FC-X-2	'0-0	9/26/2006	0.0000901	0.000324	0.000132	0.0000525 J	0.00000479 U	0.000260	0.00000440 U
FC-Y-1	'0-0	9/27/2006	0.000103	0.000399	0.000161	0.00000142 U	0.00000510 U	0.000252	0.00000468 U
FC-Y-2	'0-0	9/27/2006	0.000151	0.000479	0.000189	0.0000581 J	0.00000875 U	0.000383	0.00000804 U
FC-Z-1	'0-0	9/27/2006	0.00000630 U	0.000416	0.00102	0.00000151 U	0.00000705 U	0.000403	0.00000648 U
FC-Z-2	'0-0	9/27/2006	0.00000366 U	0.000426	0.00000380 U	0.0000611 J	0.00000409 U	0.000478	0.00000376 U
MC-W	'0-0	9/26/2006	0.000116	0.000688	0.00000733 U	0.000164	0.00000789 U	0.000307	0.00000725 U
MC-X	'0-0	9/26/2006	0.000000360 U	0.000694	0.000000380 U	0.000174	0.000000410 U	0.000358	0.000000370 U
MC-Y	'0-0	9/27/2006	0.00000583 U	0.000560	0.00000606 U	0.00000250 U	0.00000652 U	0.00000574 U	0.00000599 U
MC-Z	'0-0	9/27/2006	0.00000298 U	0.000689	0.00000309 U	0.00000381 U	0.00000333 U	0.000301	0.00000306 U

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN SOILS
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,3',6-Trichlorobiphenyl (PCB 027:(27+24)) mg/kg	2,3-Dichlorobiphenyl (PCB 005) mg/kg	2,3'-Dichlorobiphenyl (PCB 006) mg/kg	2,4',5-Trichlorobiphenyl (PCB 031) mg/kg	2,4',6-Trichlorobiphenyl (PCB 032) mg/kg	2,4-Dichlorobiphenyl (PCB 007) mg/kg
FC-W-1	'0-0	9/26/2006	0.000000970 U	0.00000336 U	0.00000842 J	0.00131	0.0000661	0.0000101 J
FC-W-2	'0-0	9/26/2006	0.0000218 J	0.000000750 U	0.0000134	0.00206	0.000217	0.00000879 J
FC-W-2-DUP	'0-0	9/26/2006	0.00000132 U	0.00000325 U	0.0000122	0.00274	0.000203	0.00000301 U
FC-X-1	'0-0	9/26/2006	0.00000177 U	0.00000179 U	0.0000118	0.00272	0.000173	0.00000785 J
FC-X-2	'0-0	9/26/2006	0.00000115 U	0.00000116 U	0.00000121 U	0.00186	0.000141	0.00000107 U
FC-Y-1	'0-0	9/27/2006	0.00000896 J	0.00000138 U	0.0000114	0.00214	0.000159	0.00000587 J
FC-Y-2	'0-0	9/27/2006	0.0000181 J	0.00000155 U	0.0000132	0.00251	0.000246	0.00000623 J
FC-Z-1	'0-0	9/27/2006	0.000000440 U	0.00000156 U	0.0000109 J	0.00284	0.000234	0.00000716 J
FC-Z-2	'0-0	9/27/2006	0.0000620	0.00000314 U	0.00000328 U	0.00202	0.000304	0.00000291 U
MC-W	'0-0	9/26/2006	0.000000610 U	0.00000386 U	0.0000540	0.00244	0.000913	0.0000168
MC-X	'0-0	9/26/2006	0.000160	0.000120	0.0000374	0.00133	0.000924	0.00000724 U
MC-Y	'0-0	9/27/2006	0.000000710 U	0.00000290 U	0.0000412	0.00000558 U	0.000882	0.0000129
MC-Z	'0-0	9/27/2006	0.00000665 U	0.00000834 U	0.0000445	0.00318	0.000980	0.00000772 U

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN SOILS
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	2,4'-Dichlorobiphenyl (PCB 008) mg/kg	2,5-Dichlorobiphenyl (PCB 009) mg/kg	2,6-Dichlorobiphenyl (PCB 010) mg/kg	2-Chlorobiphenyl (PCB 001) mg/kg	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169) mg/kg	3,3',4,4',5-Pentachlorobiphenyl (PCB 126) mg/kg	3,3',4,4'-Tetrachlorobiphenyl (PCB 077) mg/kg
FC-W-1	'0-0	9/26/2006	0.0000413 J	0.00000353 U	0.00000312 U	0.00000587 J	0.00000141 U	0.0000197 J	0.000101 J
FC-W-2	'0-0	9/26/2006	0.0000778 J	0.00000450 J	0.00000461 J	0.00000765 J	0.00000996 J	0.0000361 J	0.000135
FC-W-2-DUP	'0-0	9/26/2006	0.0000566 J	0.00000342 U	0.00000254 U	0.00000589 J	0.0000160 J	0.0000356 J	0.000149
FC-X-1	'0-0	9/26/2006	0.0000578 J	0.00000188 U	0.00000217 U	0.00000602 J	0.00000883 J	0.0000445 J	0.000190
FC-X-2	'0-0	9/26/2006	0.0000608 J	0.00000122 U	0.00000239 U	0.00000808 J	0.00000159 U	0.0000261 J	0.000105 J
FC-Y-1	'0-0	9/27/2006	0.0000600 J	0.00000246 J	0.00000152 U	0.00000588 UJ	0.00000134 U	0.000000790 UJ	0.000114
FC-Y-2	'0-0	9/27/2006	0.0000646 J	0.00000439 J	0.00000169 U	0.00000563 UJ	0.00000145 U	0.0000345 J	0.000117
FC-Z-1	'0-0	9/27/2006	0.0000555 J	0.00000165 U	0.00000147 U	0.00000574 UJ	0.00000852 J	0.0000582 J	0.000255
FC-Z-2	'0-0	9/27/2006	0.0000438 J	0.00000331 U	0.00000241 U	0.00000664 UJ	0.00000667 U	0.000104 U	0.000226
MC-W	'0-0	9/26/2006	0.000372	0.00000414 J	0.00000386 J	0.0000187 J	0.00000205 U	0.0000848 J	0.000148
MC-X	'0-0	9/26/2006	0.000124	0.00000276 U	0.00000409 J	0.0000172 J	0.00000379 U	0.0000809 J	0.000157
MC-Y	'0-0	9/27/2006	0.000284	0.00000483 J	0.00000226 U	0.0000181 J	0.00000363 U	0.000000790 U	0.00000200 U
MC-Z	'0-0	9/27/2006	0.000288	0.00000877 U	0.00000302 U	0.0000172 J	0.00000441 U	0.000154	0.00000330 U

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN SOILS
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	3,3',4,5,5'-Pentachlorobiphenyl (PCB 127) mg/kg	3,3',4,5-Tetrachlorobiphenyl (PCB 078) mg/kg	3,3',4,5'-Tetrachlorobiphenyl (PCB 079) mg/kg	3,3',4-Trichlorobiphenyl (PCB 035) mg/kg	3,3',5,5'-Tetrachlorobiphenyl (PCB 080) mg/kg	3,3',5-Trichlorobiphenyl (PCB 036) mg/kg
FC-W-1	'0-0	9/26/2006	0.00000111 U	0.00000164 U	0.00000151 U	0.00000357 U	0.00000138 U	0.00000329 U
FC-W-2	'0-0	9/26/2006	0.0000135 U	0.00000889 J	0.0000163 J	0.00000848 J	0.0000115 J	0.0000529
FC-W-2-DUP	'0-0	9/26/2006	0.00000456 U	0.00000164 U	0.00000150 U	0.00000853 J	0.00000138 U	0.00000513 U
FC-X-1	'0-0	9/26/2006	0.00000159 U	0.0000330 J	0.000000840 U	0.000000510 U	0.000000770 U	0.0000185 J
FC-X-2	'0-0	9/26/2006	0.00000381 J	0.00000260 U	0.0000268 J	0.0000192 J	0.00000780 J	0.0000188 J
FC-Y-1	'0-0	9/27/2006	0.000000660 U	0.00000143 U	0.00000131 U	0.00000398 U	0.00000120 U	0.00000366 U
FC-Y-2	'0-0	9/27/2006	0.000000540 U	0.00000152 U	0.00000139 U	0.00000683 U	0.00000128 U	0.00000629 U
FC-Z-1	'0-0	9/27/2006	0.00000143 U	0.00000152 U	0.00000139 U	0.00000550 U	0.00000128 U	0.00000506 U
FC-Z-2	'0-0	9/27/2006	0.0000758 U	0.00000124 U	0.0000300 J	0.00000319 U	0.00000104 U	0.00000294 U
MC-W	'0-0	9/26/2006	0.00000271 U	0.00000357 U	0.0000773 J	0.00000615 U	0.00000300 U	0.00000566 U
MC-X	'0-0	9/26/2006	0.00000169 U	0.00000342 U	0.0000859 J	0.000000320 U	0.00000288 U	0.000000290 U
MC-Y	'0-0	9/27/2006	0.000000620 U	0.00000252 U	0.00000231 U	0.00000509 U	0.00000212 U	0.00000468 U
MC-Z	'0-0	9/27/2006	0.00000356 U	0.00000384 U	0.00000352 U	0.00000260 U	0.00000323 U	0.00000239 U

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN SOILS
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	3,3'-Dichlorobiphenyl (PCB 011) mg/kg	3,4,4',5-Tetrachlorobiphenyl (PCB 081) mg/kg	3,4,4'-Trichlorobiphenyl (PCB 037) mg/kg	3,4,5-Trichlorobiphenyl (PCB 038) mg/kg	3,4',5-Trichlorobiphenyl (PCB 039) mg/kg	3,4-Dichlorobiphenyl (PCB 012:(12+13)) mg/kg
FC-W-1	'0-0	9/26/2006	0.000273	0.00000171 U	0.000116	0.00000342 U	0.00000303 U	0.00000909 J
FC-W-2	'0-0	9/26/2006	0.000447	0.0000284 J	0.000215 J	0.0000173 J	0.00000902 J	0.0000297 J
FC-W-2-DUP	'0-0	9/26/2006	0.000398	0.00000163 U	0.00000521 UJ	0.00000534 U	0.00000473 U	0.0000104 J
FC-X-1	'0-0	9/26/2006	0.000381	0.0000357 J	0.000254	0.0000366	0.0000359	0.00000199 U
FC-X-2	'0-0	9/26/2006	0.000661	0.0000179 J	0.000191	0.0000327 J	0.0000328 J	0.00000129 U
FC-Y-1	'0-0	9/27/2006	0.000409	0.00000134 U	0.000255	0.00000381 U	0.00000337 U	0.0000119 J
FC-Y-2	'0-0	9/27/2006	0.000848	0.00000140 U	0.000288	0.00000655 U	0.00000579 U	0.0000185 J
FC-Z-1	'0-0	9/27/2006	0.000365	0.00000162 U	0.000368	0.00000527 U	0.00000467 U	0.00000174 U
FC-Z-2	'0-0	9/27/2006	0.000606	0.0000521 J	0.000319	0.00000306 U	0.00000271 U	0.00000349 U
MC-W	'0-0	9/26/2006	0.000237	0.00000321 U	0.0000702 J	0.00000590 U	0.00000522 U	0.00000429 U
MC-X	'0-0	9/26/2006	0.000235	0.00000326 U	0.000110	0.000000300 U	0.000000270 U	0.00000870 U
MC-Y	'0-0	9/27/2006	0.000181	0.00000237 U	0.00000441 U	0.00000488 U	0.00000431 U	0.00000322 U
MC-Z	'0-0	9/27/2006	0.0000104 U	0.00000397 U	0.0000895 J	0.00000249 U	0.00000220 U	0.000202

APPENDIX N - ATTACHMENT 2-3b
DETECTED CONSTITUENTS IN SOILS
PCBs
Old Place Creek, Staten Island, New York

Sample ID	Sample Interval	Sample Date	3,5-Dichlorobiphenyl (PCB 014) mg/kg	3-Chlorobiphenyl (PCB 002) mg/kg	4,4'-Dichlorobiphenyl (PCB 015) mg/kg	4-Chlorobiphenyl (PCB 003) mg/kg	Decachlorobiphenyl (PCB 209) mg/kg
FC-W-1	'0-0	9/26/2006	0.00000371 U	0.000000680 U	0.000120	0.00000422 J	0.000342 J
FC-W-2	'0-0	9/26/2006	0.000000820 U	0.00000210 U	0.000146	0.00000183 U	0.000413 J
FC-W-2-DUP	'0-0	9/26/2006	0.00000360 U	0.00000256	0.000184	0.00000550 J	0.000540 J
FC-X-1	'0-0	9/26/2006	0.00000198 U	0.00000175 U	0.000171	0.00000523 J	0.000530
FC-X-2	'0-0	9/26/2006	0.00000128 U	0.00000239 U	0.000141	0.00000716 J	0.000379 J
FC-Y-1	'0-0	9/27/2006	0.00000152 U	0.00000273	0.000179	0.00000497 UJ	0.000587 J
FC-Y-2	'0-0	9/27/2006	0.00000171 U	0.00000329	0.000202	0.00000534 UJ	0.000632 J
FC-Z-1	'0-0	9/27/2006	0.00000173 U	0.00000282	0.000147	0.00000511 UJ	0.000881 J
FC-Z-2	'0-0	9/27/2006	0.00000347 U	0.000000380 U	0.000190	0.000000350 U	0.000778 J
MC-W	'0-0	9/26/2006	0.00000427 U	0.00000319	0.0000586 J	0.00000745 J	0.0211 E
MC-X	'0-0	9/26/2006	0.00000865 U	0.00000379	0.0000464 J	0.00000706 J	0.000686 J
MC-Y	'0-0	9/27/2006	0.00000320 U	0.00000333	0.0000440 J	0.00000591 UJ	0.000575 J
MC-Z	'0-0	9/27/2006	0.00000922 U	0.00000319	0.0000460 J	0.00000579 UJ	0.000789

Appendix N: NJDEP Technical Regulations Checklist

NJDEP SRP CHECKLIST
REMEDIAL INVESTIGATION REPORT

N.J.A.C. 7:26E-	Regulation Requirement	Included: Yes/No/NA	RIR Section No.	Comments
Remedial Investigation Objectives				
4.1(a)1	Has full horizontal and vertical delineation of all contaminants in all media at each AOC been achieved?	Yes	3.1	While the Phase I RI WP was developed with respect to AOCs, the Phase II RI technical objectives, as described in Section 1.4.2 were developed to address specific, site-wide characterization issues, without regard to individual AOCs. This approach was approved by USEPA.
4.1(a)2	Has the RI resulted in a good understanding of surface and subsurface characteristics of the site, including depth to ground water?	Yes	6 and 7	
4.1(a)3	Have all migration pathways and actual or potential receptors through all media or structures been identified?	Yes	6 and 7	
4.1(a)4	Has all data necessary for the evaluation of remedial action alternatives been collected?	Yes	3.1, 3.2, 6.1-6.8	
4.1(a)5	Has all data necessary for the evaluation of the actual and potential ecological impacts and characterization of all natural resource injuries been collected?	Yes	6.5-6.8, 8, and Appendix R	
4.1(a)6	Has all data necessary to develop permit limitations for any discharge that may be required as part of a remedial action under consideration been collected?	N/A		Additional data to develop permit limitations may be collected as part of a Pre-design investigation that would be performed after the Feasibility Study (FS).
4.1(a)7	Have containment and/or stabilization activities to prevent contaminant exposure and migration while alternatives are being evaluated been implemented?	NA		A proposal to perform an interim action on South Branch Creek was submitted to USEPA and was subsequently rejected.
RI of Soil				
4.3(a)	Was an RI conducted of all soil above applicable soil remediation standards?	Yes	3, 6, and Appendix B	
4.3(b)1	Was the remedial investigation of soil conducted in accordance with quality assurance and quality control requirements?	Yes	3.3.1 and 3.6	
4.3(b)2	Were the technical requirements for soil investigation conducted in accordance with 3.6?	Yes	3.3.1	
3.6(a)1	Was an adequate subsurface survey for buried vessels and wastes conducted when required?	Yes	3.2	
3.6(a)2	Was an adequate subsurface profile developed?	Yes	5.1, 5.2, Appendix C	
3.6(a)3	Were initial characterization soil samples properly collected?	Yes	3.3.1 and 3.6	
3.6(a)4	Were soil samples analyzed for volatile organic properly collected?	Yes	3.3.1 and 3.6	
3.6(a)5	Were soil samples properly collected?	Yes	3.3.1 and 3.6	
3.6(a)6	Were at-depth samples collected properly if required?	Yes	3.3.1 and 3.6	

NJDEP SRP CHECKLIST
REMEDIAL INVESTIGATION REPORT

N.J.A.C. 7:26E-	Regulation Requirement	Included: Yes/No/NA	RIR Section No.	Comments
3.6(a)7	Were saturated soil sample collected if required?	Yes	3.3.1 and 3.6	
4.1(b)	Has soil contamination been fully delineated at each AOC?	Yes	6.1	see response to 4.1(a)1. A comprehensive characterization of the horizontal and vertical extent of soil was performed on a site-wide basis.
RI of ground water				
4.4(a)	Has a GW investigation been conducted for each AOC as required?	Yes	6.4	see response to 4.1(a)1. A comprehensive characterization of the horizontal and vertical extent of groundwater was performed on a site-wide basis.
4.4(a)1	Contaminants in ground water above the applicable ground water standard	Yes	3.3.3, 6.4, appendices B and L	Alternative groundwater quality criteria (AGQQC) were developed to address potential impacts to surface water quality and human health in anticipation of NJDEP acceptance of the Class III-B petitions.
4.4(a)2	Contaminants in soil within 2 feet of saturated zone or bedrock above the applicable soil remediation standard	Yes	6.1	
4.4(a)3	Contaminants in soil column above the applicable soil remediation standard and the contaminant will not be actively remediate.	NA		Remedial strategies will not be established until the completion of the FS.
4.4(a)4i	Contaminant with solubility >100 mg/l @ 20-25 degrees C, and intervening soil is <15% silt and clay	Yes	3.3 and 6.4	Groundwater quality samples were collected from an array of monitoring wells that comprehensively covered the entire site and were analyzed for a comprehensive list of parameters.
	OR			
4.4(a)4ii	Contaminant with solubility >100 mg/l @ 20-25 degrees C and AOC is within 2000 ft of public supply well	N/A	2.8	Public water supply wells are not located within 2000 ft of the site.
4.4(c)	Was the GW investigation conducted in accordance with quality assurance and quality control requirements?	Yes	3.3.3 and 3.6	
4.4(d)	Were GW samples collected in accordance with acceptable professional methods?	Yes	3.3.3 and 3.6	
4.4(e)	Were initial GW sampling points properly located?	Yes	3.3.3 and 3.6	
4.4(e)i	Located in the excavation of any source(s) of contamination	NA		
4.4(e)ii	Located downgradient and within 10 feet of the AOC	Yes	6.4	see response to 4.1(a)1. A comprehensive characterization of the horizontal and vertical extent of groundwater was performed on a site-wide basis.
4.4(f)	Were an adequate number of samples collected?	Yes	3.3.3 and 3.6	
4.4(g)	Were all ground water monitoring wells and piezometers properly constructed, permitted, logged, surveyed, developed, marked, secured and decommissioned?	Yes	3.2, Appendices B and C	

NJDEP SRP CHECKLIST
REMEDIAL INVESTIGATION REPORT

N.J.A.C. 7:26E-	Regulation Requirement	Included: Yes/No/NA	RIR Section No.	Comments
4.4(h)3i	Has confirmed GW contamination been delineated at each AOC?	NA	6.4	see response to 4.1(a)1. A comprehensive characterization of the horizontal and vertical extent of groundwater was performed on a site-wide basis.
4.4(h)3ii	Has GW flow direction been confirmed in each affected aquifer?	Yes	5.2.3	
4.4(h)3iii	Have impacted aquifers been adequately characterized?	Yes	5.2 and 6.4	
4.4(h)3iv	Is adequate documentation included to support model use for GW flow?	NA	NA	A groundwater flow model has not been utilized but may as part of the FS and/or the remedial design.
4.4(h)3v	Was a well search conducted/updated?	NA	2.8	Groundwater use in the vicinity of the site is non-potable due to naturally occurring saline conditions. Locations of public water supply wells were located using NJDEP GIS information.
4.4(h)3vi	Were all potentially impacted wells sampled?	NA		No off-site impacted wells are identified.
4.4(h)3vii	Were all surface water bodies potentially impacted evaluated?	Yes	5.3, 6.5	
4.4(h)3viii	Were subsurface utilities & structures evaluated?	Yes		The locations of subsurface utilities were located. Soil samples were collected beneath manufacturing buildings.
4.4(h)3ix	Were current & future 25-year planning ground water uses evaluated?	No	2.8	Groundwater use in the vicinity of the site is non-potable due to naturally occurring saline conditions. Locations of public water supply wells were located using NJDEP GIS information.
4.4(i)	Were soil gas studies conducted if appropriate?	Yes	3.3.2 and 6.3	
RI of Surface water, wetlands and sediment				
4.5(a)	Was an investigation of potentially impacted surface water, wetlands and sediments conducted as part of the remedial investigation?	Yes	3.3.4-3.3.5, and 6.5-6.6	
4.5(b)	Was the investigation of surface water conducted in accordance with the RI requirements and quality assurance and quality control requirements?	Yes	3.3.4-3.3.5, 3.6, and Appendix B	
4.5(d)	Did the investigation of surface water, wetlands and sediments comply with sampling requirements and include a receiving water body analysis?	Yes	3.3.4-3.3.5, and 6.5-6.6	
RI of landfills and historic fill material				
4.6(a)	Was the investigation of landfills properly conducted?	Yes	2.1.1, 3.3.1 and 6.1	
4.6(b)	Was the investigation of historic fill material properly conducted?	Yes	2.1.1, 3.3.1 and 6.1	
RI of ecological receptors				
4.7(a)***	Was the investigation of ecological receptors properly conducted?	Yes	3.3.6, 6.7-6.8, Appendix F.	

NJDEP SRP CHECKLIST
REMEDIAL INVESTIGATION REPORT

N.J.A.C. 7:26E-	Regulation Requirement	Included: Yes/No/NA	RIR Section No.	Comments
RI Report				
4.8(b)1**	Is the required historical information included and adequate?	Yes	1.3	
4.8(b)2**	Is a description of the physical setting included and adequate, including the well search results in the format given in Appendix B?	Yes	2	
4.8(b)3	Is a technical overview included and adequate?	Yes	Sections 3,4,5,6	
4.8(b)4	Are findings and recommendations included and adequate?	Yes	Sections 6,7,8, and 9	
4.8(c)1	Are the results of analyses, data sheets and lab data deliverables included and adequate, including full or reduced deliverables as appropriate?	Yes	Appendices H and J	
4.8(c)2	Is a summary table of analytical methods and QA indicators included and adequate?	Yes	Tables 3-1 through 3-9	
4.8(c)3****	Is a summary table of sampling results and remediation standards included and adequate, and has both a hard copy and an electronic copy (EDSA disc) been submitted?	Yes	Appendices H and J	Appendix H presents the lab deliverables. Appendix J presents a tabular summary of analytical data. EDSA submittal has not been prepared
4.8(c)4	Are stratigraphic logs included and adequate?	Yes	Appendix C	
4.8(c)5	Are stratigraphic cross sections included and adequate?	Yes	Fig 5-6	
4.8(c)6	Is information for borings, piezometers and wells included and adequate?	Yes	Appendix C	
4.8(c)7	Is information for sampled monitoring wells included and adequate?	Yes	6.4	
4.8(c)8	Is GW elevation information included and adequate?	Yes	5.2.3, Tables 5-1, 5-5.	
4.8(c)9	Is inventory control information included and adequate?	NA	NA	Inventory records are not available or applicable given the history and current use of the site.
4.8(c)10	Is information to support bench, pilot or treatability studies included and adequate?	NA	NA	The need for bench, pilot, or treatability studies will not be identified until the FS is completed
4.8(c)11	Is information to develop permit limitations included and adequate?	NA	NA	Additional data to develop permit limitations may be collected as part of a Pre-design investigation that would be performed after the Feasibility Study (FS).
4.8(c)12	Are the results of ecological evaluations and risk assessments included and conducted in accordance with N.J.A.C. 7:26E-4.7(b)?	Yes	Section 8, Appendices K and L	
4.8(c)13	For landfills, is a summary of waste disposal records included and adequate?	NA	NA	
4.8(c)14	For historic fill material, is the required documentation included and adequate?	Yes	2.1.1 and 6.1	
4.8(c)15	Are other relevant data included and adequate?	Yes		
4.8(d)	Does the report include the required maps and diagrams, including the contour Map Reporting Form in Appendix G?	Yes	Sections 1, 2, 3, 5, 6, Appendix O	

NJDEP SRP CHECKLIST
REMEDIAL INVESTIGATION REPORT

N.J.A.C. 7:26E-	Regulation Requirement	Included: Yes/No/NA	RIR Section No.	Comments
Certifications				
Varies (see certification checklist)	Has the required certification been submitted?	NA		The RIR was performed under a Federal Order such that the New Jersey certifications are not applicable.

** Historical and physical setting information is required unless the remediation is directed at a specific discharge event (rather than a particular AOC) or any UST or UST system.
** Historical and physical setting information is required unless the remediation is directed at a specific discharge event (rather than a particular AOC) or any UST or UST system.
****EDSA not req'd for soils-only remediation of AOC that is heating oil UST for on-site consumption in 1-4 family residence.

CONTOUR MAP REPORTING FORM

This reporting form is presented in accordance with N.J.A.C 7:26E-3.13 to accompany the groundwater contour map submitted in Figures 5-6 through 5-13.

1. Did any surveyed well casing elevations change from the previous sampling event? Yes___ No **X**. If yes, attach new "Well Certification - Form B – Location Certification" as found in the "Guide for the Submission of Remedial Action Workplans" (NJDEP, March 1995) and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes_**X**_ No___. If yes, identify these wells. **Any of the "S" wells could have water levels slightly higher than the screen, dependent on seasonal conditions.**

3. Are there any monitor wells present at the site but omitted from the contour map? Yes___ No_**X**_. Unless the omission of the well(s) has been previously approved by the Department, justify the omissions.

4. Are there any monitor wells containing separate phase product during this measuring event? Yes___ No_**X**_. Were any of the monitor wells with separate phase product included in the ground water contour map? Yes___ No_**X**_. If yes, show the formula used to correct the water table elevation.

5. Has the ground water flow direction changed more than 45 degrees from the previous ground water contour map? Yes_**X**__ No__. If yes, discuss the reasons for the change.
The bedrock groundwater contour map for January 8, 2007 was constructed with data under non-pumping conditions whereas the other bedrock maps are based on pumping conditions of groundwater extraction system at the adjacent ISP-ESI Linden facility. The pumping conditions creates a reversal of groundwater flow directions.

6. Has ground water mounding and/or depressions been identified in the ground water contour map? Yes_**X** __ No_ __. Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence. **Groundwater mounding occurs within the overburden water bearing zone within the center of the site as a result of a discharge areas being located on several sides of the site and an impermeable groundwater barrier being located along the northern property line with the ISP-ESI Linden site.**

7. Are all the wells used in the contour map screened in the same water-bearing zone(s)? **Yes_X_** No___. If no, justify inclusion of those wells.

There are two groups of wells at the site, including those screened in the overburden water bearing zone and those screened in the bedrock. Overburden wells are used for the overburden mapping and bedrock wells are used for the bedrock mapping. Accordingly, wells from the appropriate depths are used for the construction of these maps, without exception.

8. Were the ground water contours computer generated___, computer aided___, or hand-drawn_**X**_? If computer aided or generated, identify the interpolation method(s) used.

Remedial Investigation Report
LCP Chemicals, Inc. Superfund Site
Linden, New Jersey
Volume V of V
Appendices O through P

Prepared for
ISP Environmental Services, Inc.
500 Hercules Road
Wilmington, Delaware 19808-1599

July 2013

Project Number: 137005

Brown AND Caldwell
2 Park Way, Suite 2A
Upper Saddle River, New Jersey 07458

Appendix O: Human Health Risk Assessment

REMEDIAL INVESTIGATION REPORT
LCP CHEMICALS, INC. SUPERFUND SITE
LINDEN, NEW JERSEY

APPENDIX O
Final Human Health Risk Assessment

Prepared for:

ISP Environmental Services Inc.
1361 Alps Road
Wayne, New Jersey 07470

May 2011

Geosyntec consultants

engineers | scientists | innovators

TABLE OF CONTENTS

1. INTRODUCTION 1-1
   1.1 Authority 1-1
   1.2 Baseline Human Health Risk Assessment Purpose and Approach 1-2
   1.3 Report Organization 1-3

2. SITE DESCRIPTION 2-1
   2.1 Location and Setting 2-1
   2.2 Historical Land Use 2-2
      2.2.1 Anthropogenic Fill 2-2
      2.2.2 Historic Site Operations 2-3
      2.2.3 Development of South Branch Creek 2-5
   2.3 Surrounding Land Use 2-6
   2.4 Current and Future Land Use 2-7
   2.5 Groundwater Use 2-8
   2.6 Conceptual Site Model 2-10
      2.6.1 Potential Receptors 2-11
      2.6.2 Exposure Pathways 2-11
      2.6.3 Summary of Complete Exposure Pathways 2-15

3. DATA EVALUATION AND COPC SELECTION 3-1
   3.1 Human Health Risk Assessment Dataset 3-1
   3.2 Screening Process Overview 3-2
      3.2.1 Screening Considerations 3-3
   3.3 Identification of Constituents of Potential Concern 3-7
      3.3.1 Surface Soil 3-7
      3.3.2 Subsurface Soil 3-8
      3.3.3 Groundwater 3-9
      3.3.4 Sediment/Bank Soil 3-9
      3.3.5 Soil Vapor 3-10

4. EXPOSURE ASSESSMENT 4-1
   4.1 Exposure Point Concentrations 4-1
   4.2 Calculation of Receptor Intakes 4-2
      4.2.1 Soil Intake 4-3
      4.2.2 Groundwater Intake 4-4
      4.2.3 Sediment Intake 4-5

TABLE OF CONTENTS (CONTINUED)

4.2.4 Soil Vapor Intake 4-5
4.3 Exposure Parameters....4-6
4.3.1 Future Commercial/Industrial Worker 4-7
4.3.2 Future Commercial/Industrial Worker (Site-Specific)....4-8
4.3.3 Future Construction/Utility Worker 4-8
4.3.4 Current/Future Adolescent Trespasser 4-9
4.4 Vapor Intrusion Model Input Parameters 4-11

5. TOXICITY ASSESSMENT 5-1
5.1 Non-Carcinogenic Chemicals 5-1
5.2 Carcinogenic Chemicals 5-2
5.3 Other Risk Model Input Parameters 5-3
5.3.1 Dermal Pathway: DAF 5-3
5.3.2 Inhalation Pathway: PEF and VF 5-3
5.4 Risk Evaluation for Lead 5-4
5.5 Risk Evaluation for Mercury and Mercury Speciation 5-4
5.5.1 Mercury Speciation Results 5-7
5.5.2 Mercury Speciation Conclusions 5-9
5.5.3 Mercury Toxicity Values 5-10

6. RISK CHARACTERIZATION 6-1
6.1 Calculation of Theoretical Excess Cancer Risks 6-1
6.2 Calculation of Potential Non-Cancer Risks 6-2
6.3 Risk Characterization Results 6-3
6.3.1 Future Commercial/Industrial Workers 6-3
6.3.2 Future Site-Specific Workers 6-4
6.3.3 Future Construction/Utility Worker 6-5
6.3.4 Current/Future Trespassers 6-6
6.4 Evaluation of Lead 6-6

7. UNCERTAINTY ASSESSMENT 7-1

8. RISK ASSESSMENT SUMMARY AND CONCLUSIONS 8-1

9. REFERENCES 9-1

LIST OF TABLES

Table 0: Site Risk Assessment Identification Information

Table 1: Selection of Exposure Pathways

Table 2.1: Occurrence, Distribution, and Selection of Constituents of Potential Concern – Surface Soil (0 to 2 ft bgs)

Table 2.2: Occurrence, Distribution, and Selection of Constituents of Potential Concern – Subsurface Soil (2 to 10 ft bgs)

Table 2.3: Occurrence, Distribution, and Selection of Constituents of Potential Concern – Overburden Groundwater

Table 2.4: Occurrence, Distribution, and Selection of Constituents of Potential Concern – Surficial Sediment/Bank Soil (0 to 0.5 ft bgs)

Table 3.1: Exposure Point Concentration Summary – Surface Soil (0 to 2 ft bgs)

Table 3.2: Exposure Point Concentration Summary – Mixed Soil (0 to 10 ft bgs)

Table 3.3: Exposure Point Concentration Summary – Overburden Groundwater

Table 3.4: Exposure Point Concentration Summary – Sediment/Bank Soil (0 to 0.5 ft bgs)

Table 4.1a: Values Used for Intake Calculations – Future Commercial/Industrial Worker, Surface Soil

Table 4.1b: Values Used for Intake Calculations – Future Commercial/Industrial Worker, Overburden Groundwater

Table 4.2: Values Used for Intake Calculations – Future Site-Specific Worker, Surface Soil

Table 4.3a: Values Used for Intake Calculations – Future Construction/Utility Worker, Mixed Soil

Table 4.3b: Values Used for Intake Calculations – Future Construction/Utility Worker, Shallow (Overburden) Groundwater

Table 4.4: Values Used for Intake Calculations – Current/Future Trespasser, South Branch Creek Surficial Sediment/Bank Soil

Table 5.1: Non-Cancer Toxicity Data – Oral/Dermal

Table 5.2: Non-Cancer Toxicity Data – Inhalation

Table 6.1: Cancer Toxicity Data – Oral Dermal

Table 6.2: Cancer Toxicity Data – Inhalation

Table 7.1: Calculation of Cancer Risks and Non-Cancer Hazards – Future Commercial/ Industrial Worker, Surface Soil and Overburden Groundwater

Table 7.2: Calculation of Cancer Risks and Non-Cancer Hazards – Future Site-Specific Worker, Surface Soil

R2-0005999

LIST OF TABLES (CONTINUED)

Table 7.3: Calculation of Cancer Risks and Non-Cancer Hazards – Future Construction/Utility Worker, Mixed Soil and Shallow (Overburden) Groundwater

Table 7.4: Calculation of Cancer Risks and Non-Cancer Hazards – Current/Future Trespasser, South Branch Creek Surficial Sediment/ Bank Soil

Table 9.1: Summary of Receptor Risks and Hazards for COPCs – Future Commercial/ Industrial Worker, Surface Soil and Overburden Groundwater

Table 9.2: Summary of Receptor Risks and Hazards for COPCs – Future Site-Specific Worker, Surface Soil

Table 9.3: Summary of Receptor Risks and Hazards for COPCs – Future Construction/Utility Worker, Mixed Soil and Shallow (Overburden) Groundwater

Table 9.4: Summary of Receptor Risks and Hazards for COPCs – Current/Future Trespasser, South Branch Creek Surficial Sediment/Bank Soil

Table 10.1: Risk Summary – Future Commercial/ Industrial Worker, Surface Soil and Overburden Groundwater

Table 10.2: Risk Summary – Future Site-Specific Worker, Surface Soil

Table 10.3: Risk Summary – Future Construction/Utility Worker, Mixed Soil and Shallow (Overburden) Groundwater

Table 10.4: Risk Summary – Current/Future Trespasser, South Branch Creek Surficial Sediment/Bank Soil

LIST OF FIGURES

Figure 1: LCP Site Location

Figure 2: Site Features

Figure 3: Land Use within 1 Mile of the Site

Figure 4: LCP Phase I and Phase II Remedial Investigation Sample Locations

Figure 5: Conceptual Site Model

Figure 6: Mercury Speciation Sample Locations

LIST OF ATTACHMENTS

Attachment A: Supplemental Data Tables

Attachment B: ProUCL Statistical Software Output

Attachment C: Adult Lead Model

Attachment D: Toxicity Profiles for Primary COPCs

Attachment E: Vapor Intrusion Assessment

LIST OF ACRONYMS AND ABBREVIATIONS

µg	Microgram
ADD	Average Daily Dose
ADE	Average Daily Exposure
ARAR	Applicable or Relevant and Appropriate Requirements
AF	Adherence Factor
ALM	Adult Lead Model
AT	Averaging Time
ATSDR	Agency for Toxic Substances and Disease Registry
Battelle	Battelle Marine Science Laboratory
bgs	Below Ground Surface
BOD	Biological Oxygen Demand
BW	Body Weight
CalEPA	California Environmental Protection Agency
CERCLA	Comprehensive Environmental Response Compensation Liability Act
CF	Conversion Factor
CH_3OOH	Methyl Peroxide
CH_3Hg	Methyl Mercury
cm	Centimeter
cm^2	Square centimeter
COD	Chemical Oxygen Demand
Conrail	Consolidated Rail Corporation
COPC	Constituent of Potential Concern
CSM	Conceptual Site Model
CTE	Central Tendency Exposure
DAF	Dermal Absorption Factor
ECRA	Environmental Cleanup Responsibility Act
ED	Exposure Duration
EF	Exposure Frequency
ET	Exposure Time
EPC	Exposure Point Concentration
Frontier	Frontier Geosciences, Inc. Laboratory
ft	Feet
FS	Feasibility Study
g	Gram
Geosyntec	Geosyntec Consultants, Inc.
GI_{ABS}	Gastrointestinal Absorption

LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

GIS	Geographic Information System
gpm	Gallons Per Minute
HCl	Hydrochloric Acid
HEAST	Health Effects Assessment Summary Tables
Hg0	Elemental Mercury
HgII	Inorganic Divalent Mercury
Hg_2Cl_2	Dimercury Dichloride
HgCl2	Mercuric Chloride
$Hg(NO_3)_2$	Mercuric Nitrate
HgO	Mercuric Oxide
HgS	Mercuric Sulfide
$HgSO_4$	Mercury Sulfate
HHRA	Human Health Risk Assessment
HQ	Hazard Quotient
HI	Hazard Index
IR_{Soil}	Soil Ingestion Rate
IR_{Sed}	Sediment Ingestion Rate
IR_{GW}	Groundwater Ingestion Rate
IRIS	Integrated Risk Information System
ISRA	Industrial Site Recovery Act
IES	ISP Environmental Services Inc.
J&E Model	Johnson and Ettinger Vapor Intrusion Model
kg	Kilogram
Kp	Dermal Permeability Constant
KOH	Potassium Hydroxide
L	Liter
LADD	Lifetime Average Daily Dose
LADE	Lifetime Average Daily Exposure
LOAEL	Lowest Observable Adverse Effect Level
m^2	Square Meter
m^3	Cubic Meter
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg	Milligram
MRL	Minimal Risk Level
N	Nitrogen

LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

NFA	No Further Action
N.J.A.C.	New Jersey Administrative Code
NJDEP	New Jersey Department of Environmental Protection
NJDOT	New Jersey Department of Transportation
NJRDCSCC	New Jersey Residential Direct Contact Soil Cleanup Criteria
N.J.S.A.	New Jersey Site Remediation Act
NOAEL	No Observable Adverse Effect Level
NWI	National Wetlands Inventory
OEHHA	Office of Environmental Health Hazard Assessment
Order	USEPA Administrative Order No. II CERCLA-02-99-2015
PAH	Polycyclic Aromatic Hydrocarbons
PbB	Prediction of Blood Lead Level
PbB_{fetal}	Prediction of Fetal Blood Lead Level
PCB	Polychlorinated Biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
PEF	Particulate Emission Factor
PPRTV	Provisional Peer Reviewed Toxicity Values
Q/C	Soil Particulate Dispersion Coefficient
RAGS	Risk Assessment Guidance for Superfund
RCRA	Resource Conservation and Recovery Act
RfC	Reference Concentrations
RfD	Reference Dose
RI	Remedial Investigation
RME	Reasonable Maximum Exposed
RSL	USEPA Regional Screening Level
s	Second
SA	Surface Area
SEP	Sequential Extraction Procedure
SF	Slope Factor
SSG	Soil Screening Guidance
SVOC	Semivolatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TDS	Total Dissolved Solids
TEF	Toxic Equivalency Factor
TEQ	Toxic Equivalency Quotient

LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

TOC	Total Organic Carbon
UCC	Union Carbide Corporation
UCL	Upper Confidence Limit
URF	Unit Risk Factor
USGS	United States Geological Survey
USEPA	United States Environmental Protection Agency
VF	Volatilization Factor
VOC	Volatile Organic Compound
WHO	World Health Organization

1. INTRODUCTION

On behalf of ISP Environmental Services Inc. (IES), Geosyntec Consultants, Inc. (Geosyntec) has prepared this Final Baseline Human Health Risk Assessment (HHRA) for the LCP Chemicals, Inc. Superfund Site located in Linden, New Jersey (herein referred to as the LCP Site or the Site). The HHRA is a companion document to the Remedial Investigation (RI) Report prepared and submitted to the United States Environmental Protection Agency (USEPA) by Brown and Caldwell in July 2013. Portions of the RI Report relevant to the evaluation of human health risks are summarized herein; however, the full context of site-specific information requires the HHRA to be evaluated in light of the complete RI Report. Therefore, the reader should refer to the RI Report for a more comprehensive presentation and analysis of the Phase I (2001-2002) and Phase II (2006-2007) RI data.

A Draft HHRA was submitted to the USEPA in September 2008. The USEPA provided comments on the Draft HHRA in a letter dated 31 March 2009. Geosyntec provided responses to the USEPA's comments in a letter dated 30 April 2009. USEPA provided additional comments on 6 April 2010 in the form of informal notes (annotations) on Geosyntec's response to comments letter, and on 10 August 2010 via email from Mr. Jon Gorin of USEPA Region 2. In response, Geosyntec provided USEPA with additional information and clarification on previous comments in response letters dated 22 June and 7 September 2010. USEPA comments regarding the HHRA have been addressed herein where applicable. As indicated in the response letters, several of the USEPA's comments have been addressed in the Uncertainty Assessment (Section 7) as the changes would have little impact to the results of risk assessment or the conclusion that mercury is the primary-risk driver at the Site.

1.1 Authority

As agreed to in a March 2006 meeting with USEPA, IES has conducted a risk assessment for the Site as a component of the RI pursuant to USEPA Administrative Order No. II CERCLA-02-99-2015 (hereinafter referred to as the Order). The stated purpose of the Order was to:

> "(a)… conduct a remedial investigation ("RI") to determine the nature and extent of contamination and any threat to the public health, welfare, or the environment caused by the release or threatened release of hazardous substances, pollutants or contaminants at or from the Site; (b) to determine and evaluate alternatives, through the conduct of a feasibility study ("FS"), to remediate said release or threatened release of hazardous substances, pollutants, or contaminants; (c) to provide for the reimbursement to EPA of response and oversight costs incurred by EPA with respect to the Site; and (d) to provide for reimbursement to EPA of response costs incurred by EPA at the Site prior to the effective date of this Consent Order."

1.2 Baseline Human Health Risk Assessment Purpose and Approach

As a baseline assessment, this report is intended to conservatively characterize risks based on hypothetical human exposures to environmental media at the Site under current conditions (i.e., unremediated conditions). The USEPA has developed and refined a framework for evaluation of potential human health risk from exposure to chemicals in the environment. Risk assessment is a regulatory process that uses information about the toxicity of chemical substances to estimate a theoretical level of risk for people who might be exposed to those substances. It is extremely important to understand the context of the risk assessment process before drawing conclusions from this or any other risk assessment report.

Risk assessment is a regulatory process that is used to determine if levels of environmental constituents pose an unacceptable risk as defined by regulatory standards and requirements. Risk estimates are calculations based on models – they are useful for ranking purposes, but are not necessarily predictive of any actual individual's risk of developing cancer or other adverse health effects. It should be recognized that no substance or activity is without some level of risk. Many of the activities we engage in on a daily basis would appear extremely "risky" or dangerous if viewed through the lens of the regulatory risk assessment process. Many of the exposure and toxicity inputs are selected as conservative estimates in order to err on the side of safety when estimating risks associated with exposure to the Site.

This HHRA evaluates potential exposure of human receptors to constituents detected in soil, groundwater, soil vapor, and sediment at the LCP Site. The objectives of the HHRA were as follows:

- to determine whether site-related constituents detected in the environmental media at the Site pose unacceptable risks to human health; and
- to provide information to support decisions concerning the need for further evaluation or action based upon current and reasonably anticipated future land use.

Consistent with standard risk assessment practice and USEPA guidance, the following elements are included in this HHRA:

- ***Data Evaluation and Selection of Constituents of Potential Concern:*** The analytical data used in the HHRA are presented. Constituents detected in environmental media are discussed and summarized. The range of detected concentrations, frequency of detection, and other summary statistics are presented. Constituents of Potential Concern (COPCs) in environmental media are identified through comparisons to conservative risk-based screening levels.
- ***Exposure Assessment:*** Both current and reasonably foreseeable future scenarios under which exposure to site-related constituents could occur are qualitatively discussed, and a set of hypothetical receptors for the purposes of calculating future

risks is developed to quantitatively evaluate such scenarios. Conservative estimates of the intake of each COPC by each receptor through the selected pathways are calculated.

- ***Toxicity Assessment:*** A characterization of the toxicity and dose-response characteristics of each COPC is provided with regard to potential carcinogenic and non-carcinogenic effects. This provides a quantitative representation of toxicity that can be used in conjunction with the intake information from the Exposure Assessment to characterize potential risks.
- ***Risk Characterization:*** For each scenario, the information provided by the Exposure Assessment and Toxicity Assessment is combined to yield quantitative risk estimates that characterize the relationship between hypothetical exposures and potential toxicity. Estimates for potential theoretical excess cancer risks and non-cancer hazards are provided and discussed, both qualitatively and quantitatively.

Risk management comprises a separate step in the project in which the magnitude of potential risks and the necessity of corrective actions to mitigate them are evaluated. Risk management measures are typically addressed as part of the Feasibility Study.

1.3 Report Organization

The content and organization of this document are described below:

- ***Section 1, Introduction***, presents the project background and scope, and the purpose and approach for conducting the HHRA.
- ***Section 2, Site Description***, describes the physical and environmental characteristics of the Site, historic operations, potential contaminants, and current and future land use; this information is used to develop a conceptual site model for the site which describes potentially complete exposure pathways from site-related constituent exposures to potential human receptors.
- ***Section 3, Data Evaluation and COPC Selection***, describes the analytical data and media being evaluated in the risk assessment and identifies COPCs based on a conservative screening process.
- ***Section 4, Exposure Assessment***, describes potential human receptors and exposure pathways under current and future land use conditions, presents exposure assumptions for estimating COPC intake, and describes the concentration terms used in the risk assessment.
- ***Section 5, Toxicity Assessment***, describes sources of toxicity factors and chemical-specific parameters used in the risk assessment.
- ***Section 6, Risk Characterization***, presents the risk calculation methodology, results, and discussion.

- ***Section 7, Uncertainty Assessment***, discusses the key factors and assumptions that contribute to uncertainty in the risk assessment.
- ***Section 8***, ***Risk Assessment Summary and Conclusions***, summarizes the results of the risk assessment.
- ***Section 9, References***, lists the literature cited in the report.

The exposure pathways and receptors, exposure variables, toxicity values, and risk estimates are presented in tabular form in accordance with the standard tables of Risk Assessment Guidance for Superfund (RAGS) Part D (USEPA, 2001). Supplemental tables are presented in Attachment A. Attachment B presents the ProUCL statistical software output (USEPA, 2009). Attachment C presents the inputs and results of the adult lead model. Attachment D provides toxicological profiles for the primary COPCs at the Site. Attachment E presents the vapor intrusion model spreadsheets including the model inputs, intermediate calculations, and vapor intrusion risk estimates.

2. SITE DESCRIPTION

2.1 Location and Setting

The LCP Site is located in the Tremley Point section of the City of Linden, Union County, New Jersey. The Site is located along the western shore of the Arthur Kill and east of the New Jersey Turnpike as shown on Figure 1. The Site is accessed from the Road to Grasselli which is reached from Linden via South Wood Avenue and Tremley Point Road. The coordinates of the approximate center of the Site are Latitude 40.60832º and Longitude -74.21163º.

The Site was formerly an industrial complex with chemical manufacturing operations. A mercury-cell, chlorine production (chlor-alkali) facility was operated at the Site from 1955 until cessation of manufacturing operations in 1985 and included a mercury-cell chlorine process area, hydrogen gas processing plant, and sodium hypochlorite manufacturing area. The Site was also used as a terminal for products produced at other facilities and various other industrial operations. In addition, a variety of tenants operated on-site until the Site was closed in August 1994.

The Site is bisected by an inactive railroad spur running north and south that is located on an easement and is operated by the Consolidated Rail Corporation (Conrail). The LCP chlor-alkali manufacturing facility was formerly housed in a group of buildings located immediately west of the railroad tracks. The mercury cell buildings (No. 230 and 240) and the liquefaction building (No. 231) are shown on Figure 2.

The current alignment of a man-made ditch, known as South Branch Creek, is located east of the railroad tracks along a narrow portion of the property that connects to the Arthur Kill. Occupying most of the remaining portion of the property east of the railroad tracks is a closed Resource Conservation and Recovery Act (RCRA) unit, a cooling tower, and the pad for a former sludge roaster. The closed RCRA unit is currently maintained by IES.

West of the railroad tracks there are numerous buildings and tanks associated with the LCP Chemicals Inc. facility and its tenants. Several of the buildings also exist on the property that were part of associated processes leased and operated by other companies, including the Linde hydrogen plant predominantly on the western portion of the property, and the Kuehne Chemicals sodium hypochlorite and chlorine packaging facility. Other notable features on the western portion of the Site include an electrical transformer and rectifier yards and an on-site railroad yard. Additionally, engineering and institutional controls consisting of a 0.7-acre asphalt cap and deed restriction were placed on the western portion of the property by former tenant Linde in 1994 pursuant to the New Jersey Department of Environmental Protection (NJDEP) Environmental Cleanup Responsibility Act (ECRA) Site No. 90367.

The area surrounding the LCP Site was historically developed for heavy industrial use, much of which is currently inactive and/or decommissioned. Primary current, active land use in the area is bulk storage and transport of petroleum products and aggregates.

Most of the region is highly industrial and consists of land that has been created through the filling of low-lying areas. The Arthur Kill is a large navigable, tidal straight that is tidally influenced from the New York Harbor and the Atlantic Ocean. Likewise, the Rahway River to the south is a tidally influenced tributary of the Arthur Kill traveling through an industrial area. Background contaminant conditions and contributions to the sediments from many sources are widespread. There are numerous NJDEP-contaminated sites in the region, in addition to the LCP Site, many of which have the highest remedial level designations of "C3" and "D," indicating high levels of multiple contaminants that may be impacting surface water and groundwater. Additionally, there are a number of sites within the Newark Bay complex with extremely high mercury levels that may influence levels in Arthur Kill (NJDEP, 2002). In addition, the New Jersey Turnpike, completed in 1954, crosses Piles Creek west of the GAF site. The Turnpike is a regional source of contaminants typical of road runoff, such as heavy metals (particularly lead), biological oxygen demand (BOD)/chemical oxygen demand (COD), nutrients, oil and grease, polycyclic aromatic hydrocarbons (PAHs), pesticides, herbicides, and polychlorinated biphenyls (PCBs), as well as of contaminants released through spills and accidents on the roadways.

2.2 Historical Land Use

The text in this section has been adapted from the document titled "Work Plan, Remedial Investigation and Feasibility Study" (URS, October 6, 2000), and updated information that has been obtained from other available sources. Much of the historic information presented herein is compiled from documents dating back to 1975 and earlier. Within these documents, there are some contradictions concerning the past operations of the Site. This problem is compounded by the fact that much of LCP Chemicals, Inc.'s records were lost or destroyed sometime in the 1980s (Eder, September 1993). Every attempt has been made to resolve these differences through the acquisition of government agency and other records.

2.2.1 Anthropogenic Fill

The entire area of the LCP Site and most of the area surrounding the Site formerly consisted of low-lying area, as depicted on historic topographic maps in Figures 2-2 through 2-4 of the RI Report. It was necessary to raise the grade prior to the development of these areas for industrial and other uses. This was accomplished through the placement of non-indigenous materials, that is, materials not originally native to the Site, including soil, ash, dredge spoil, demolition debris, and other materials. This material is referred to in this report as "anthropogenic fill," namely, fill material that has been placed by humans. The placement of fill in the Tremley Point area allowed for the industrial development of the peninsula. The anthropogenic fill found on the LCP Site and the Site vicinity meets the definition of "Historic Fill" contained in the New Jersey

"Technical Requirements for Site Remediation" (New Jersey Administrative Code [N.J.A.C.] 7:26E-1.8) and has been mapped as "Historic Fill" by NJDEP.

2.2.2 Historic Site Operations

At the time of LCP Chemicals Inc.'s mercury cell chlorine production, there were three main operating centers at the Site: the mercury cell chlorine process area, the hydrogen gas processing plant, and the sodium hypochlorite manufacturing area. Materials needed for processing were shipped in by barge, rail, or truck. Storage and distribution of chlorine and its related products (including methylene chloride and potassium hydroxide) occurred on this Site throughout its history. The manufacturing operations were subject to periodic shutdowns due to changes in market demands for chlorine production. The processes by which the chlorine and its by-products were created are described in the section below.

Mercury Cell Electrolysis Process

The mercury cell was an industrial system that split common salt molecules (NaCl) to produce chlorine gas. A typical mercury cell process used electrolysis to split the salt solution. An electric current was passed through the salt solution (brine) between a graphite anode and a mercury cathode to produce chlorine gas and sodium. The sodium dissolved into the mercury and the sodium-mercury mixture was made to react with water to produce sodium hydroxide and hydrogen gas. All of the material from this process, including the spent brine, hydrogen gas, and sodium hydroxide, contained residual amounts of mercury. The mercury was separated from the resulting chlorine and hydrogen gas and sodium hydroxide which were packaged for sale for additional processing and/or for distribution.

The raw materials used in the chlorine production process were salt, water, mercury, and electric power. Documentation of LCP Chemicals, Inc.'s procedure for the handling and storage of chemicals is not available. Rock salt or evaporated salt, which was utilized later, was transported to the Site by rail. It was stored in salt silos located by Building 233 and fed to the adjacent saturators to create brine. The brine was treated and filtered in a brine treatment tank in Building 233. To treat the brine, sodium hydroxide, sodium carbonate, and barium chloride were added to precipitate impurities in the solution, such as calcium carbonate, sulfates, and hydroxides. The residual material is known as brine purification mud or "brine sludge." In the mid 1960s, a surface impoundment, the brine sludge lagoon, was constructed and used to dispose the brine sludge and process wastewater. The sludge was mixed with brine and the resulting slurry was pumped to the brine sludge lagoon through overhead pipes. The supernatant, or liquid content of the brine sludge lagoon, was pumped back to the brine purification tank for recycling and for redistribution either to the mercury cells or for the slurry usage. Documentation of the disposal practices for the brine sludge before the construction of the sludge lagoon is not available.

After pre-treatment, the brine was piped to the mercury cells in Building 230 and Building 240 to produce gaseous chlorine and a mercury-sodium mixture through electrolysis. Once the chlorine was cooled, dried (i.e., water vapor removal) with sulfuric acid, and liquefied in Building 233, it was stored in 100-ton vessels. The used brine was recycled to the treatment tank in Building 233 for re-saturation and to repeat the process.

The mercury-sodium mixture was then piped to denuders, or strippers, where it was hydrolyzed to form elemental mercury, a sodium hydroxide solution, and gaseous hydrogen. The recovered mercury was returned to the mercury cells. The sodium-hydroxide solution was filtered and stored in above ground storage tanks at the northeast corner of the facility. The hydrogen gas was also filtered by way of a commercial "Purasiv" unit south of Building 231. From there it was piped to the hydrogen facility where it was packaged and distributed by the Linde Division unit of the Union Carbide Corporation (UCC). Occasionally, the hydrogen gas was mixed with water and chlorine to form hydrochloric acid in both gaseous and liquid form. The hydrochloric acid was then stored in tanks near Building 231. In 1985, LCP Chemicals stopped the mercury cell process; thus, brine sludge production was also stopped.

Between 1985 and 1994, the Site was used as a transfer terminal for products made at other Hanlin Group Facilities. The Hanlin products were shipped to the Site via rail or truck and stored in above ground storage tanks. From there they were repackaged and distributed. The products were potassium hydroxide, sodium hydroxide, hydrochloric acid, and methylene chloride.

Linde Division Hydrogen Plant

The hydrogen plant was operated by the Linde Division unit of UCC, which occupied a 2.1-acre leasehold on the western portion of the Site interconnected to the mercury cell process area. The Linde Division hydrogen plant started operation in 1957 and ceased operation in 1990. Hydrogen was supplied from the mercury cells to the plant via overhead pipes. The gas was purified by UCC to remove additional residual mercury (reportedly, at least five pounds of mercury was removed from the gas stream daily), stored, compressed, and shipped by trailer. UCC, in their 104(e) response claims that one disposal method for the Linde Division waste mercury was to give it to employees for resale. In 1980, the hydrogen plant stopped using the hydrogen from the chlorine plant and began to package liquid cryogenic hydrogen that was shipped in from outside sources.

In 1988, in preparation for a new tenant, UCC had the building interior and the hydrogen compressors decontaminated for mercury (IT, April 22, 1988). IT reportedly recovered 30 pounds of free mercury from one compressor and its associated piping.

In May 1990, the Linde Division plant ceased operations after the UCC lease with LCP expired. This triggered the NJDEP's ECRA (now known as the Industrial Site Recovery Act [ISRA]).

Due to several areas of concern unrelated to the chlorine manufacturing process (i.e. former underground storage tanks, sumps, septic tanks, etc.), ISRA required that a soil and groundwater investigation be conducted within the boundaries of the Site. The required investigation and its cleanup took place in the early 1990s. The NJDEP granted a No Further Action (NFA) declaration for the Linde Division hydrogen facility on June 20, 1995 for soils only. To our knowledge, Praxair (successor to UCC) has had engineering controls on the leasehold.

The Linde Division facility was last used in October 1994 by Liquid Carbonic Corporation. Liquid Carbonic Corporation was later purchased by Praxair, Inc. Liquid Carbonic rented the Linde Division site from LCP Chemicals, Inc., and used it for office space and as a parking area for truck trailers.

Hypochlorite Facility

Kuehne Chemical, Inc., leased Lot Nos. 3.02, 3.03, and the northern part of Lot 3.01 from LCP Chemicals, Inc. and started a sodium hypochlorite manufacturing process. The processing area was located to the north of Building 220 and between Avenue C and D and consisted of above ground storage tanks, loading areas, and support buildings. The manufacturing plant received its raw materials, chlorine, and sodium hydroxide from the LCP chlorine plant via overhead pipes. The raw material utilized by Kuehne to produce sodium hypochlorite (bleach) was produced. Chlorine, sodium hydroxide, hydrochloric acid, and sodium hypochlorite were also stored and distributed by Kuehne. Kuehne Chemical Inc. had vacated the Site by February 1981. It is likely Kuehne mercury waste was disposed of along with the LCP mercury waste.

2.2.3 Development of South Branch Creek

South Branch Creek, the only water body on-site, is a man-made brackish tidal ditch originating in the central portion of the Site and flowing east over 1,200 feet (ft) before discharging into the Arthur Kill. The watercourse is approximately 15 ft wide at the head of the stream and becomes as wide as 30 ft on the eastern end of the Site. It has a large tidal change from low to high tide, in the range of 5 to 5.5 ft, resulting in a total drainage of South Branch Creek during low tide. South Branch Creek does not appear on United States Geological Survey (USGS) topographic mapping and is not mapped by the National Wetland Inventory (NWI) program.

South Branch Creek is known to have had four (4) different alignments, which have been documented on the aforementioned maps and photographs and in the "Historic Drainage Analysis" report (Brown and Caldwell, Revised October 2006). These alignments include:

- ***Original Natural South Branch Creek.*** The original South Branch Creek, prior to 1947, was a natural tidal creek that existed prior to development of the Tremley Point area and placement of anthropogenic fill in the area. This original channel was progressively filled in after it was replaced by the man-made channels that were constructed since 1951.

- ***Western Man-Made Channel – 1947.*** The portion of South Branch Creek located west of the railroad tracks was replaced by a man-made channel that looped to the south around the future LCP Site from 1951 to 1966. The original natural portion of South Branch Creek located west of the railroad tracks was subsequently filled between approximately 1947 and 1952.
- ***Western Man-Made Channel – 1966.*** The man-made channel located west of the tracks was replaced by a covered channel (flume), replacing the southern loop around the LCP Site. This flume was located along the northern edge of the LCP Site property.
- ***Eastern Man-Made Channel – 1971.*** The current man-made channel was constructed around 1971. It discharges to the Arthur Kill approximately 950 ft south of the former "natural" South Branch Creek channel. It is likely that this man-made channel is underlain by the anthropogenic fill into which it was constructed. The natural eastern South Branch Creek channel was subsequently filled.

2.3 Surrounding Land Use

The area surrounding the LCP Site historically was developed for heavy industrial use, much of which is currently inactive. A map depicting land use as of 2002 is presented in Figure 3. The map was developed based on geographic information system (GIS) datalayers obtained from the NJDEP.

The current primary active land use in the area is bulk storage and transport of petroleum products and aggregates. The transport of these materials occurs by ship and barge using dockage along the Arthur Kill as well as by rail, truck, and pipeline. Other active facilities in the area include a municipal wastewater treatment plant, trucking and warehousing, and truck repair. An active, major rail freight line runs parallel to the eastern side of the New Jersey Turnpike, west of the Site. A number of large chemical manufacturing facilities formerly operated within one mile of the Site, most of which are currently inactive and in various stages of demolition and site remediation.

The industrial properties located immediately adjacent to the LCP Site include:

- NuStar Energy-Linden Terminal located north and south of South Branch Creek to the east of the inactive Conrail railroad spur;
- The former GAF site manufacturing facility to the north;
- Citgo Petroleum Corp, Linden Transload Terminal located to the south and southwest; and
- Linden-Roselle Sewerage Authority sludge barge dock located southeast of the Site along the Arthur Kill.

Various undeveloped areas are located within one mile of the Site, many of which are either vacant former chemical manufacturing plants or tidal areas. The former manufacturing areas are

depicted on the Land Use map (Figure 3) either as "Industrial," "Undeveloped/Barren/Field," and/or "Scrubland." Areas of tidal wetlands, some of which are partially filled, are located along the Rahway River to the south and Piles Creek to the north. Pralls Island is located northeast of the Site and across the Arthur Kill in Richmond County, New York and is a wildlife sanctuary consisting of dredge spoil fill placed over former tidal wetlands. The City of New York, Department of Sanitation Fresh Kills Landfill, is located approximately three miles south of the Site.

Most of the currently or formerly developed land in the vicinity is located on what has been mapped by the New Jersey Geologic Survey (2005) as "Historic Fill" in accordance with the New Jersey Site Remediation Act (N.J.S.A.) 58:10B-1 et seq. Additional information regarding anthropogenic fill is presented in Section 1.3.2.

The only area of residential development within one mile of the Site is the Tremley section of Linden which is located west of the New Jersey Turnpike approximately 3,850 ft (¾ mile) from the nearest (western) edge of the LCP Site.

2.4 Current and Future Land Use

The LCP Site is currently unoccupied and not used for any operational purposes. The Site is zoned heavy industrial. Major features of the Site include the man-made ditch known as South Branch Creek which connects to the Arthur Kill, a closed RCRA unit maintained by IES, an inactive rail line, numerous buildings in disrepair, and a paved cap in the area of the former hydrogen processing buildings.

Given the industrial nature of historic operations at the Site, Site zoning, and the current Site setting, future residential use of the Site is extremely unlikely. Future land use at the Site is expected to remain commercial/industrial.

The Tremley Point area of Linden, located east of the New Jersey Turnpike, is anticipated to undergo brownfields redevelopment on the sites of the former manufacturing facilities. A major transportation infrastructure has been in the planning stages to support this redevelopment. Specifically, New Jersey Department of Transportation (NJDOT, 2008) "Tremley Point Access Local Roadway Improvements," Project ID 9324A is anticipated to be funded as part of the FY [Fiscal Year] 2009 Transportation Capital Program that will consist of a four-lane, 1.1 mile long roadway and bridge to connect Tremley Point with Exit 12 of the New Jersey Turnpike in Carteret. This project is specifically intended to address "the increase in truck traffic anticipated by the redevelopment of the Tremley Point brownfields into more than six million square feet of warehouse and distribution space" (NJDOT, 2008).

Potential future land uses of the LCP Site may include power generation, petroleum terminals, warehousing and distribution, and transportation.

2.5 Groundwater Use

Neither overburden nor bedrock groundwater at the Site is currently used for any purposes (e.g., drinking water, irrigation). Tremley Point, on which the LCP Site is located, is nearly surrounded by estuarine surface water bodies, including the Arthur Kill, Piles Creek, the Rahway River, and various tidal ditches including South Branch Creek. Due to the proximity of the Site to the Arthur Kill and other tidal waters, groundwater within this region, including the Passaic bedrock aquifer(s), is typically saline (Anderson, 1968). Since groundwater at the Site exceeds the New Jersey Safe Drinking Standards for naturally occurring salinity, the area is unsuitable for public water supply wells.

Regionally, brackish groundwater concentrations tend to diminish gradually with increasing distance from the source waters. Further inland from the Arthur Kill and within five miles of the Site, the Passaic formation is extensively developed as the primary water supply source. The depths of these wells range from 75 to 570 ft below ground surface (bgs) and yield volumes of water between 100 and 400 gallons per minute (gpm) (see Table 2-9 of the RI Report). Locally occurring unconsolidated aquifers have also been tapped for water supply within this region. Relatively fewer in number, these aquifer(s) serve as the primary public water source for the Rahway area. Also, some shallow supply wells screened in the Quaternary sand and gravel, and yielding up to 300 gpm, are used as a source of industrial waters.

Six public community water supply wells, all upgradient of the Site, are located within a four to five mile radius of the Site. As shown in Table 2-9 of the RI Report, the depths of these wells typically range from 200 to 500 ft bgs. The pumping rates for these wells are not known but the capacity for wells range from 200 to 450 gpm. Each of these wells is owned and operated by New Jersey American Water and located approximately four miles to the northwest and upgradient of the Arthur Kill. New Jersey American Water is the primary supplier of potable water to the Linden, New Jersey area. At the Site, all potable water is provided by New Jersey American Water.

Formal submittals were made to the NJDEP pursuant to N.J.A.C. 7:9C-1.5(f)4 regarding the reclassification of groundwater within the bedrock and overburden water-bearing zones as Class III-B non-potable groundwater (Brown and Caldwell, April 2008 and August 2008, respectively). Class III-B status has been granted by NJDEP for other nearby sites with similar hydrogeologic conditions as the LCP Site (Brown and Caldwell, April 2008 and August 2008). In addition, the Department's Bureau of Water Allocation currently regulates the groundwater at the adjacent GAF site as if it was Class III-B based on the lack of a requirement for a Groundwater Allocation Permit for groundwater withdrawals based on prior demonstration of naturally saline conditions.

As approved in a letter dated 27 February 2009 from Messrs Frank Faranca and Ian R. Curtis of the NJDEP, the bedrock water-bearing zone at the LCP Site has formally been reclassified as

Class III-B non-potable groundwater. The groundwater quality within the bedrock water-bearing zone was characterized through the sampling of monitoring wells installed and located on both the LCP Site and the adjacent GAF site. The water quality data include the results from chloride and total dissolved solids (TDS) analyses in addition to numerous other analytical parameters. Chloride and TDS are the two parameters specified in N.J.A.C. 7:9C as the parameters used to establish Class III-B classification. N.J.A.C. 7:9C states that:

> *"Class III-B ground water consists of all geologic formations or units which contain ground water having natural concentrations or regional concentrations (through the action of salt-water intrusion) exceeding 3,000 mg/L [milligram per liter] Chloride or 5,000 mg/L Total Dissolved Solids, or where the natural quality of ground water is otherwise not suitable for conversion to potable uses."*

The chloride and TDS results for the LCP Site and GAF site exceeded the Class III-B criterion of 3,000 mg/L for chloride and the 5,000 mg/L criterion for TDS for all tested bedrock wells on the LCP Site. These data demonstrated that the groundwater quality conditions in the bedrock water-bearing zone are impacted as a result of naturally-occurring saltwater intrusion from the nearby tidally influenced surface water bodies.

The overburden water-bearing zone at the LCP Site, however, remains classified as Class II-A potable groundwater. Regardless of the regulatory aquifer classification, overburden groundwater at the Site exceeds the New Jersey Safe Drinking Standards for naturally occurring salinity, making it unsuitable for potable purposes. In addition, the following two separate New Jersey regulations prohibit the installation of Category 1 or 2 wells thereby preventing use of groundwater from the overburden water-bearing zone for potable or other purposes.

- ***N.J.A.C. 7:9D*** (Well Construction and Maintenance; Sealing of Abandoned Wells) states that for potable water supplies installed in unconsolidated formations:

  "All well casing shall be no less than four inches in diameter and no less than 50 feet in depth" (N.J.A.C. 7:9D-2.3(a)3i.); and "All wells shall have a minimum length of 50 feet of grout seal extending from the top of the gravel pack or top of the well screen to grade." (N.J.A.C. 7:0D-2.3(a)3iii.)

  By application of this regulatory restriction, a water supply well can never be installed within the overburden water-bearing zone at the Site since it is required to be entirely sealed off by impermeable casing material. Geologic information presented in Section 5 of the RI Report reveals that the depth to the bedrock beneath the Site typically ranges between 35 and 50 ft bgs. This depth is short of the minimum 50 ft of casing and grout required per N.J.A.C. 7:9D such that it would be physically impossible to install a well in the overburden without violating the casing requirement.

- ***N.J.A.C. 7.7E*** (Coastal Zone Management) restricts groundwater use in areas where coastal resources could be negatively impacted by pumping. With regard to groundwater use, this particular regulation states:

  "Coastal development shall demonstrate, to the maximum extent practicable that the anticipated groundwater withdrawal demand of the development, alone and in conjunction with other groundwater diversions proposed or existing in the region, will not cause salinity intrusions into the groundwater of the zone, will not degrade groundwater quality, will not significantly lower the water table or piezometric surface, or significantly decrease the base flow of adjacent water sources." (N.J.A.C. 7.7E-8.6(b))

  It is likely that groundwater withdrawals from the overburden water-bearing zone would cause substantial reduction of the water table surface that would potentially cause saltwater intrusion. Thus, approval for the use of overburden groundwater as a drinking water source would be prohibited under N.J.A.C. 7.7E.

Based on these considerations, overburden groundwater is unlikely to be used for potable or other purpose under future conditions. Note: although this exposure pathway is not reasonably anticipated and is acknowledged as hypothetical, commercial/industrial worker ingestion of groundwater was quantitatively assessed to provide risk managers with information needed to evaluate the impact of any future changes in groundwater use at the Site.

2.6 Conceptual Site Model

This section presents the conceptual site model (CSM) for human receptors at the LCP Site. The CSM identifies potentially complete exposure pathways by which receptors could come in contact with site-related constituents and is used throughout the Site investigation and remediation processes to: (i) provide a framework for addressing potential risks; (ii) evaluate the need for additional data collection activities; and (iii) evaluate health risks and the need for corrective measures.

As defined in the RAGS Part A document (USEPA, 1989), there are four elements necessary to form a complete exposure pathway:

- a source and mechanism of constituent release to the environment;
- an environmental receiving or transport medium;
- a point of potential receptor contact with the medium; and
- a route by which the receptor can receive an effective dose (e.g., ingestion, dermal contact, and/or inhalation).

The first two elements of the CSM were described in the previous sections. More detailed information is provided in the RI Report (Brown and Caldwell, 2013), specifically, Section 6, *Nature and Extent of Contamination*, and Section 7, *Fate and Transport*. Potential receptors and

exposure pathways are described in the following subsections. The CSM is diagrammatically presented in Figure 4.

2.6.1 Potential Receptors

According to USEPA guidance, current and future receptors that are reasonably anticipated to be exposed to site-related constituents are included in a HHRA (USEPA, 1989). Given the current Site setting, condition, and anticipated future land uses at and adjacent to the Site, the following on-site potential human receptors are considered representative of human receptors that may potentially be exposed to environmental media at the Site:

- Future Commercial/Industrial Worker – Based on existing and reasonably foreseeable land and water uses, the future commercial/industrial worker is the most likely human receptor at the Site.
- Future Site-Specific Worker – In addition to the full-time commercial/industrial worker, a reduced-frequency commercial/industrial ("site-specific") worker is also evaluated. This scenario is based on potential redevelopment of the Site as a truck depot (parking lot). Under this scenario, workers are not anticipated to be present at the LCP Site on a full-time basis. Although this scenario is hypothetical, and it is acknowledged that such future land use would require institutional controls, the evaluation of this receptor supports remedial decision-making and the risk management process.
- Future Construction/Utility Worker – The future on-site construction/utility worker is potentially exposed to COPCs in environmental media while performing short-duration construction related to future redevelopment of the Site or maintenance of on-site utilities.
- Current/Future Trespasser - Trespassing, although unlikely due to perimeter fencing, nearby security, and the isolated location of the Site away from residential areas, could potentially occur at the Site.

Future residential use of the Site is extremely unlikely given the Site location and zoning and nature of the surrounding land use. The potential for a residential exposure scenario is considered insignificant for the LCP Site.

2.6.2 Exposure Pathways

This section presents the exposure pathways by which receptors could come into contact with constituents in environmental media. These pathways are considered complete when links exist between impacted media and a potential receptor. Conversely, incomplete exposure pathways are those pathways in which constituent intakes are considered to be nonexistent or insignificant. USEPA guidance defines an insignificant pathway as one that has an exposure estimated to be two or more orders of magnitude less than by other pathways (for the same receptor); a pathway is also considered insignificant if the risks are much less for that pathway, or if the likelihood of exposure by that pathway is very small (USEPA, 1989).

Potential receptor-exposure scenarios for quantitative evaluation were identified based on observations of Site infrastructure, access, physical conditions, available historic reports, conceptual contaminant fate and transport, and the nature and extent of contaminants observed in environmental media at the Site. As described below, several insignificant exposure pathways are qualitatively evaluated in the uncertainty assessment.

Exposure Potential Related to Soil

Presently, the Site is unoccupied and access is restricted by perimeter fencing which surrounds the majority of the former operational areas. Per the Order and RI Work Plan, perimeter fencing and signage are required at the Site through the duration of the RI/FS process. Access to Site soils is further limited as the majority of the Site is covered with buildings, pavement, or gravel. Thus, exposure to soil under current Site conditions is an incomplete exposure pathway. The Site is currently not used for any operational purposes; however, the zoning designation is "heavy industrial" and land use in the vicinity of the Site is also industrial and includes a tank farm and active rail corridor.

Future commercial/industrial workers (default and site-specific) are considered realistic receptors for the Site and may be exposed to COPCs in soil. Future on-site construction/utility workers may also be exposed to COPCs in soil while performing short-duration construction related to future redevelopment of the Site or maintenance of on-site utilities. Future commercial/industrial workers are assumed to be exposed to surface soil while engaged in day-to-day activities whereas future construction/utility workers, who may be involved in intrusive activities, are assumed to be exposed to surface soil and subsurface soil. Potential soil exposure routes for commercial/industrial workers and construction/utility workers include ingestion, dermal contact, and inhalation of vapors and particulates in ambient air. It is acknowledged that current barriers to access (i.e., fencing) may not be present under future land use conditions thereby increasing the likelihood for trespassing. However, remedial actions protective of workers, who are potentially exposed more frequently and over a longer duration, will also be protective of trespassers. Therefore, trespasser exposure to upland soil is not quantitatively evaluated; however, potential risks for this receptor-exposure scenario are discussed qualitatively in the uncertainty assessment.

Exposure to elemental mercury in soils in the area around the cell building, where elemental mercury spheres were observed, is considered a potentially complete exposure pathway for future on-site receptors. However, because it is not possible to analyze these samples with conventional analytical methods, risks could not be quantitatively evaluated. It is assumed that areas with visible elemental mercury pose unacceptable risks to potential on-site receptors.

Exposure Potential Related to Groundwater

Neither overburden nor bedrock groundwater at the Site is currently used for any purposes (e.g., drinking water, irrigation). Due to the proximity of the Site to the Arthur Kill and other tidal waters, groundwater within this region, including the Passaic bedrock aquifer, is typically saline (Anderson, 1968). Since groundwater at the Site exceeds the New Jersey Safe Drinking Water Standards for naturally occurring salinity, the area is unsuitable for public supply wells.

As described in Section 2.5, the bedrock water-bearing zone at the LCP Site has formally been reclassified as Class III-B non-potable groundwater based on the concentrations of chloride and TDS, which result from naturally-occurring, saltwater intrusion from the nearby tidally influenced surface water bodies. Therefore, ingestion of groundwater from the bedrock water-bearing zone by potential Site receptors is considered an incomplete exposure pathway under current and future conditions.

Future use of overburden groundwater for potable purposes is also unlikely given its salinity. In addition, two separate New Jersey regulations prohibit the installation of Category 1 or 2 wells thereby preventing use of groundwater from the overburden water-bearing zone for potable or other purposes. However, the overburden water-bearing zone remains classified as Class II-A potable groundwater. Thus, although this exposure pathway is not reasonably anticipated and is acknowledged as hypothetical, commercial/industrial worker ingestion of groundwater was quantitatively assessed to provide risk managers with information needed to evaluate the impact of any future changes in groundwater use at the Site.

The depth to groundwater at the Site is shallow (typically less than 5 ft bgs). As a result, there is the potential for future construction/utility workers to have infrequent, short duration dermal contact with shallow (overburden) groundwater while conducting intrusive activities. There is also a potential for constituent intake via incidental ingestion of groundwater at the water table; however, this pathway is considered insignificant in comparison to dermal contact. With the exception of elemental mercury, which is assumed to represent unacceptable risk, primary COPCs in groundwater are non-volatile; thus, construction/utility groundwater worker exposure via inhalation is also considered insignificant relative to the dermal pathway. Based on these considerations, construction/utility worker exposure to shallow groundwater via incidental ingestion and inhalation of vapors was qualitatively evaluated in the uncertainty assessment.

Exposure Potential Related to South Branch Creek

Given that South Branch Creek is tidally influenced by the Arthur Kill and in a low-lying area, it is frequently damp and covered by wetland vegetation and, thus, unlikely to be redeveloped. The small width of the South Branch Creek corridor (approximately 75 ft) and the presence of a closed RCRA unit immediately west of the creek further limit redevelopment potential. Therefore, exposure of future commercial/industrial workers and construction/utility workers to

sediment/bank soil and surface water in South Branch Creek is considered an incomplete pathway.

Signage and a lack of attractive nuisances generally preclude access to South Branch Creek by most receptors. Access to the creek via the Site is generally limited by chain-link fencing, which surrounds the majority of the former plant area; however, current/future trespassers may access South Branch Creek via boat from the Arthur Kill. While possible, such an event is likely to occur infrequently as the nearest boat launch is several kilometers away, only low (e.g., canoe-height) crafts can successfully navigate under the tank farm pipe bridge near the mouth of the creek, and the large tidal range results in total drainage of South Branch Creek during low tide. In the event trespassers access the creek, potential exposure routes include ingestion and dermal contact with sediment and surface water; however, trespasser exposure to surface water is likely to be insignificant relative to trespasser exposure to sediment. Moreover, because the primary COPC at the Site is mercury, and mercury is likely to bind to sediment or be present in surface water as suspended solids, a quantitative evaluation of sediment exposure (via ingestion and dermal contact) considers the primary contributor to potential risks associated with South Branch Creek. Given that this area is frequently damp and covered by wetland vegetation, inhalation of volatiles and particulates from sediment/bank soil is not likely to be a significant exposure pathway. Potential risks associated with trespasser exposure to surface water are qualitatively evaluated in the uncertainty assessment.

As discussed in Section 2.1, South Branch Creek is within a heavily industrialized area and as a result has been adversely impacted. The habitat within the creek is generally not suitable for fish species that are used for human consumption. During the Ecological Assessment (TCC, 2007), no game fish were observed. Blue crabs were noted in South Branch Creek. However, given the industrial setting and substantial barriers to access (i.e., small boat via the Arthur Kill and only during high tide), trespassers are unlikely to catch and/or consume fish/shellfish from South Branch Creek. Therefore the fish/shellfish consumption pathway for South Branch Creek is considered incomplete and was not evaluated in this HHRA.

Exposure Potential Related to Indoor Air

Presently the Site is not used for any operational purposes; thus, exposure to indoor air is an incomplete exposure pathway. Should redevelopment occur, future indoor workers may have the potential to inhale subsurface vapors that migrate into indoor air. Vapor intrusion of volatile constituents to indoor air can occur via diffusion through the subsurface, advection through soil and concrete slabs due to pressure differentials between the soil and buildings, or as a result of heating and ventilation systems.

Note that because actions and methods used to address risks associated with indoor air typically differ from those used to address risks associated with other pathways, exposure to indoor air was evaluated independently from the previously discussed potentially complete exposure

pathways. Because elemental mercury (which is expected to be the primary risk driver for indoor air) is not soluble, modeling risks from groundwater to indoor air is inappropriate as it would likely result in a gross underestimation of risks from vapor intrusion. Rather, exposure to indoor air was evaluated using soil vapor data and the Johnson and Ettinger (1991) vapor intrusion model (J&E Model; USEPA, 2004b). The results of this evaluation are discussed herein; however, the model inputs and resultant risks are presented in Attachment E. Uncertainties associated with the vapor intrusion evaluation are discussed in the uncertainty assessment.

2.6.3 Summary of Complete Exposure Pathways

The following exposure pathways were identified as potentially complete exposure pathways for quantitative and qualitative evaluation in the HHRA.

- Surface Soil – Future commercial/industrial workers (default and site-specific) and construction/utility workers are potentially exposed to COPCs present in surface soil via incidental ingestion, dermal contact, and inhalation of vapors and particulates in ambient air. In addition, future trespasser exposure to surface soil is qualitatively evaluated in the uncertainty assessment.
- Subsurface Soil – Future construction/utility workers are potentially exposed to COPCs present in subsurface soil via incidental ingestion, dermal contact, and inhalation of vapors and particulates in ambient air. (Note that construction/utility worker exposure to subsurface soil is addressed as mixed soil. This assumes that when intrusive construction/maintenance activities occur, receptors are exposed to both surface and subsurface soils.)
- Groundwater – Future construction/utility workers are potentially exposed to COPCs present in shallow (overburden) groundwater via dermal contact while conducting infrequent, short-duration construction/maintenance activities at or near the water table. Incidental ingestion of groundwater and inhalation of vapors by construction/utility workers are qualitatively evaluated in the uncertainty assessment. Despite the unlikely use of groundwater for potable or other purposes, it was assumed that future commercial/industrial workers could ingest overburden groundwater at the Site. (Note: this pathway is not reasonably anticipated, but is included to provide risk managers with information needed to evaluate the impact of any future changes in groundwater use at the Site.)
- South Branch Creek – Current/future trespassers are potentially exposed to COPCs present in the sediment/bank soil of South Branch Creek via incidental ingestion and dermal contact. Trespasser exposure to surface water in South Branch Creek is qualitatively evaluated in the uncertainty assessment.
- Indoor Air – Future indoor commercial/industrial workers are potentially exposed to volatile COPCs via the inhalation of vapors in indoor air. Note that indoor air was evaluated independently from the other potentially complete exposure pathways (see Attachment E).

Exposure pathways quantitatively and qualitatively evaluated in the risk assessment are summarized in Table 1 and diagrammatically presented in Figure 4.

3. DATA EVALUATION AND COPC SELECTION

Analytical data collected during the Phase I and Phase II Site investigations were included for evaluation of baseline risks associated with the conditions present at the Site.

3.1 Human Health Risk Assessment Dataset

Analytical data collected during the comprehensive RI between July 2001 and May 2008 were included for evaluation of baseline risks associated with the current (i.e., unremediated conditions) Site conditions. The validated soil, groundwater, and sediment/bank soil data evaluated in the HHRA are presented in Attachment A. Sampling locations are shown on Figure 5. Note: samples with visible elemental mercury were excluded from the dataset used in the quantitative evaluation. However, as noted throughout this document, areas with visible elemental were assumed to present unacceptable risk to on-site receptors.

The following environmental data were used in the risk assessment:

- Soil samples collected from 226 locations were used to evaluate potential risks from constituents in soil at the Site. Soil samples were typically collected from several depths intervals at each boring location. For the purposes of this risk assessment, soil samples were separated into the following two categories: 1) surface soil 0 to 2 ft bgs and 2) subsurface soil 2 to 10 ft bgs. The majority of samples were analyzed for inorganics, metals, PCBs as Aroclors, pesticides, semivolatile organic compounds (SVOCs) (including PAHs), and volatile organic compounds (VOCs); a subset of soil samples was also analyzed for methyl mercury, polychlorinated dibenzodioxins (PCDDs), and polychlorinated dibenzofurans (PCDFs). (See Attachment A, Tables A-1.1 through A-1.7.) As noted previously, it was not possible to analyze soils with visible elemental mercury contamination with conventional analytical methods. Therefore, areas with visible elemental mercury are assumed to present an unacceptable risk to on-site receptors.
- Groundwater samples collected from 20 on-site overburden groundwater monitoring wells between January and February 2007 were used to evaluate potential risks from constituents in overburden groundwater at the Site. The majority of samples were analyzed for total and dissolved metals, inorganics, major cations (such as calcium, manganese, sodium, and iron), pesticides, SVOCs (including PAHs), and VOCs; a subset of groundwater samples was also analyzed for methyl mercury, PCDDs, and PCDFs. (See Attachment A, Tables A-2.1 through A-2.7.)
- Sediment/bank soil samples collected from 74 locations along South Branch Creek were used to evaluate potential risks from constituents in South Branch Creek. Sediment samples were collected from several depth intervals; however, for the purposes of this risk assessment, sediment samples collected from 0 to 0.5 ft bgs were evaluated as this was considered the point-of-contact for likely human receptors (i.e., trespassers). The majority of samples were analyzed for inorganics, metals, PCBs as

Aroclors, pesticides, SVOCs (including PAHs), and VOCs; a subset of sediment/bank soil samples was also analyzed for methyl mercury, PCDDs, and PCDFs. (See Attachment A, Tables A-3.1 through A-3.7.)

- Soil vapor samples were collected from 10 locations at the Site in June 2007. Soil vapor samples were analyzed for VOCs; four of these locations were also analyzed for mercury.

3.2 Screening Process Overview

Consistent with USEPA's approach for selecting chemical constituents for quantitative evaluation, maximum detected concentrations of constituents were compared to conservative screening levels to assess the potential for adverse impacts to human health and to identify COPCs (Tables 2.1 through 2.4).

If the maximum detected constituent concentration was less than the conservative screening criteria, it was eliminated as a COPC for risk assessment because the constituent will not contribute significantly to overall risk (USEPA Region 3, 1993). Exceedances of screening levels do not in themselves indicate an unacceptable risk exists. Rather, the exceedance of a screening level indicates the need for further evaluation in the risk assessment. Constituent concentrations in environmental media at the Site were compared to the following screening values:

- ***Soil*:** USEPA Regions 3, 6, and 9 have jointly developed Regional Screening Levels (RSLs; last updated November 2010) for evaluating chemical contaminants at Superfund Sites. USEPA RSLs for residential soil were used as the primary screening criteria to identify COPCs in surface soil (0 to 2 ft bgs) and subsurface soil (2 to 10 ft bgs) at the Site. The RSLs are based on an excess cancer risk of 1.0×10^{-6} and a non-cancer hazard quotient of 0.1 to account for potential additive effects. Tables 2.1 and 2.2 present the occurrence, distribution, and selection of COPCs in surface soil (0 to 2 ft bgs) and subsurface soil (2 to 10 ft bgs), respectively[1]. The New Jersey Residential Direct Contact Soil Cleanup Criteria (NJRDCSCC; NJDEP, 1999) were used as screening criteria in the absence of RSLs. Because land use at the Site is industrial, these values should not be considered applicable or relevant and appropriate requirements (ARARs) for remediation.
- ***Groundwater*:** USEPA RSLs for tapwater were used as the primary screening criteria to identify COPCs in overburden (shallow) groundwater. Tapwater RSLs are derived assuming long-term, residential-type exposure with the entire daily intake of potable water from a single source, and an excess cancer risk of 1.0×10^{-6} and a non-caner hazard quotient of 0.1 to account for potential additive effects. This is considered a

[1] Construction/utility worker soil exposure was evaluated as "mixed" soil (0 to 10 ft bgs). The mixed soil COPC list is inclusive of both surface and subsurface soil COPCs.

very conservative screening for groundwater, since groundwater at the Site is not used for drinking water and exposure is expected to be limited to short-duration, low-frequency contact during construction/maintenance activities that occur at or near the water table. Federal Maximum Contaminant Levels (MCLs) were used as screening criteria in the absence of tapwater RSLs. Table 2.3 presents the occurrence, distribution, and selection of COPCs in overburden (shallow) groundwater. New Jersey Class II-A Groundwater Quality Criteria are also presented in the Table; however, these values should not be considered as ARARs.

- ***Sediment/Bank Soil***: USEPA RSLs for residential soil were also used as the primary screening criteria to identify COPCs in South Branch Creek sediment/bank soil. This is considered a very conservative screening for sediment, since exposure to sediment would be less intense than the assumptions used in the development of the residential RSLs. Table 2.4 presents the occurrence, distribution, and selection of COPCs in South Branch Creek sediment/bank soil. NJRDCSCC were used as screening criteria in the absence of RSLs.
- ***Soil Vapor:*** As a conservative measure, any constituent (VOC or mercury) that was detected in at least one soil vapor sample was identified as a COPC. Table E-1 of Attachment E presents a summary of the soil vapor analytical results. Uncertainty associated with the use of soil vapor data to evaluate the potential for vapor intrusion is discussed in the uncertainty assessment.

Primary screening criteria were not available for a limited number of constituents detected at the Site. For these COPCs, surrogate screening values were selected based on structural similarities, potential toxicity, and health endpoints. These surrogates are noted in the RAGS Part D Table 2 Series.

3.2.1 Screening Considerations

3.2.1.1 Essential Nutrients

Several constituents lacking screening criteria are classified as essential nutrients. Per USEPA Superfund guidance, calcium, magnesium, potassium, and sodium are classified as essential nutrients and therefore, were eliminated from further quantitative evaluation (USEPA, 1989). Analytical data results that are not chemical-specific (e.g., TOC and pH) were also excluded from quantitative evaluation in the HHRA.

3.2.1.2 Non-Detect Constituents

To ensure that elevated reporting limits did not result in the inappropriate exclusion of non-detect constituents from further evaluation, one-half the maximum method detection limit (MDL) of a constituent not detected in a given medium was compared to the media-specific screening level. These comparisons are presented for surface soil, subsurface soil, groundwater, and sediment in Tables A-4.1 through A-4.4 of Attachment A. As shown in the tables, there are a limited number of non-detect constituents for which one-half the MDL exceeds the respective screening level.

However, for the majority of non-detect constituents, exceedances are infrequent (<5%) and do not appear to be the result of any systematic data quality issues. For other constituents, (e.g., DBCP and n-nitroso-di-n-propylamine), exceedances appear to be a symptom of the fact that the relevant screening criteria for these compounds are low relative to detection limits that can be achieved through standard analytical methods. Therefore, no non-detect constituents were retained as COPCs. Potential impacts to overall risk estimates due to the exclusion of non-detect constituents as COPCs are discussed in the uncertainty assessment.

3.2.1.3 Duplicate Samples

During the RI, field duplicate samples were collected at several of the sample locations evaluated in the HHRA. Prior to conducting data analysis (including screening), duplicate samples were processed as follows:

- if a constituent was detected in both samples and the relative percent difference between the results was less than or equal to 25%, the average concentration was used;
- if a constituent was detected in both samples and the relative percent difference between the results was greater than 25%, the maximum concentration was used;
- if a constituent was detected in one sample, but not the other, the detected concentration was used; or
- if a constituent was not detected in either sample, the average method detection limit was used.

The data summary tables in Attachment A (Tables A-1.1 through A-3.7) include the duplicate and parent analytical results for detected constituents.

3.2.1.4 Total Chromium

As part of the RI, environmental media at the Site were analyzed for total chromium; in addition, a subset of these samples was analyzed for hexavalent chromium – the more toxic of the chromium species. Tables A-5.1 and A-5.2 of Attachment A present the analytical results for total and hexavalent chromium in soil and overburden groundwater at the Site. A review of the speciation ratio suggests that hexavalent chromium is not a significant component of the total chromium detected at the Site. Total chromium was screened using the RSL for trivalent chromium and hexavalent chromium was screened using the RSL for hexavalent chromium.

3.2.1.5 Polychlorinated Biphenyls

Environmental media at the Site were analyzed for PCBs as Aroclors in accordance with the Workplan. For the purposes of the HHRA, Aroclor results were summed and evaluated as Total PCBs using USEPA's "High Risk and Persistence" cancer potency estimates. If an individual Aroclor was never detected in a given media (e.g., soil) it was excluded from the summation;

otherwise, non-detect results were summed using one-half the MDL. Note, that for duplicate Aroclor samples, Total PCBs were first calculated for both the parent and duplicate sample and the resultant totals subsequently processed per to the duplicate handling process described above.

3.2.1.6 Dioxin/Furan Congeners

There is some evidence in the literature that PCDDs and particularly PCDFs may be found in anodes and anode-laden mercury sludge at chlor-alkali sites as a result of the reactions between the chlorine and the graphite in the anodes (Rappe *et al.*, 1990). No samples were found to have elevated levels of dioxin-like compounds such as those previously reported in anode-laden mercury sludge. In addition, no samples taken from the Site were reported to contain carbon black material characteristic of anode-laden mercury sludge. The highest concentration dioxin samples have higher levels of total PCDFs and a higher relative proportion of the tetra-CDFs and penta-CDFs relative to the corresponding PCDDs. However, this pattern was not consistent across the Site. PCDDs and PCDFs may have originated from off-site anthropogenic sources. The distribution of PCDD and PCDF concentrations in most surficial soil samples is very heterogeneous, based both on specific concentrations of the various congeners and on the 2,3,7,8-TCDD toxic equivalence quotients (TEQs; see discussion below). This heterogeneous and widespread distribution at low concentrations across the Site is not consistently related to the former production area and is likely attributed to regional background conditions including the fill material that was used during the initial development of the Site. To investigate the relative levels of PCDDs and PCDFs, these two classes of chemicals were assessed independently. While concentrations of both PCDDs and PCDFs are low, a comparison of the concentrations suggests that furans are elevated relative to dioxins.

PCDDs and PCDFs are typically found in the environment as mixtures of PCDD or PCDF congeners. Because these congeners differ in terms of potency, the toxicity of environmental mixtures involves the use of Toxic Equivalency Factors (TEFs). The USEPA has endorsed the use of TEFs developed by the World Health Organization (WHO; 2005) to evaluate risks posed by PCDD and PCDF compounds to humans.

Within each sample, PCDD and PCDF concentrations were converted to 2,3,7,8-TCDD equivalent concentrations using the TEF multiplier presented in the table below and summed to calculate a dioxin and furan TEQ. If an individual congener was never detected in a given media (e.g., soil), it was excluded from the summation; otherwise, non-detect results were summed using one-half the MDL. For the purposes of the HHRA, dioxin and furan TEQs were evaluated using 2,3,7,8-TCDD screening criteria and toxicity values. Note, that for duplicate dioxin and furan samples, individual dioxin and furan TEQs were first calculated for both the parent and duplicate sample and the resultant dioxin and furan TEQs subsequently processed per to the duplicate handling process described above.

Analytical results and TEQ calculations for PCDDs and PCDFs detected in environmental media at the Site are included in the analytical data summary tables of Attachment A. RAGS Part D Tables 2.1 through 2.4 compare the dioxin and furan 2,3,7,8-TCDD TEQs to the media-specific 2,3,7,8-TCDD screening value using the screening process described above.

Dioxin Congeners	Human TEFs
2,3,7,8-TCDD	1.0
1,2,3,7,8-PentaCDD	1.0
1,2,3,4,7,8-HexaCDD	0.1
1,2,3,6,7,8-HexaCDD	0.1
1,2,3,7,8,9-HexaCDD	0.1
1,2,3,4,6,7,8-HeptaCDD	0.01
OctaCDD	0.0003
Furan Congeners	**Human TEFs**
2,3,7,8-TetraCDF	0.1
1,2,3,7,8-PentaCDF	0.03
2,3,4,7,8-PentaCDF	0.3
1,2,3,4,7,8-HexaCDF	0.1
1,2,3,6,7,8-HexaCDF	0.1
1,2,3,7,8,9-HexaCDF	0.1
2,3,4,6,7,8-HexaCDF	0.1
1,2,3,4,6,7,8-HeptaCDF	0.01
1,2,3,4,7,8,9-HeptaCDF	0.01
OctaCDF	0.0003

3.2.1.7 Carcinogenic PAHs

Carcinogenic PAHs commonly occur as mixtures in environmental media. Given that carcinogenic PAHs have a common toxicity mechanism, but display different toxic potencies, a TEF approach is used to convert individual PAH concentrations to a single concentration of the index chemical, benzo(a)pyrene. The benzo(a)pyrene-equivalent concentrations are then summed to calculate a benzo(a)pyrene TEQ and screened against the benzo(a)pyrene screening criteria. The carcinogenic PAHs and their respective TEFs are summarized in the table below.

Carcinogenic PAHs	TEFs
benzo(a)pyrene	1.0
benzo(a)anthracene	0.1
benzo(b)fluoranthene	0.1
benzo(k)fluoranthene	0.01
chrysene	0.001
dibenz(a,h)anthracene	1.0
indeno(1,2,3-cd)pyrene	0.1

Note that for duplicate carcinogenic PAH samples, individual benzo(a)pyrene TEQs were first calculated for both the parent and duplicate sample and the resultant benzo(a)pyrene TEQs subsequently processed per to the duplicate handling process described above. Because carcinogenic PAHs tend to have varying dermal permeability constants, carcinogenic PAHs detected in groundwater are evaluated as individual compounds rather than as benzo(a)pyrene TEQs.

3.2.1.8 Mercury

Mercury can exist in several forms that vary in terms of toxicological potency and environmental transport. Data for total mercury was collected at most sample locations. In addition, some samples were collected for mercury speciation in an effort to better characterize the proportion of the total mercury that might be in the elemental and methyl mercury form. A detailed evaluation of the mercury speciation data, conclusions, and toxicity values is provided in Section 5.5 and summarized in Tables A-6.1 through A-6.3 of Attachment A.

3.2.1.9 Additional Considerations

The detection frequency, toxicity, and history of detected constituent concentrations were also considered in the identification of COPCs. If a constituent was detected in less than 5 percent of samples, for which the number of samples was sufficiently large (n > 30), it was eliminated as a COPC. However, regardless of detection frequency, detected constituents classified as "known human carcinogens" (USEPA Class A carcinogens) that exceeded screening criteria were retained as COPCs.

3.3 Identification of Constituents of Potential Concern

3.3.1 Surface Soil

Two-hundred and forty four (244) surface soil samples (0 to 2 ft bgs) collected from 208 locations at the Site between July 2001 and May 2008 as part of the RI were evaluated in the HHRA. The majority of samples were analyzed for metals, inorganics, PCBs (as Aroclors), SVOCs (including PAHs), and VOCs; a subset of the samples was also analyzed for methyl mercury and dioxin and furan congeners. Maximum detected concentrations were compared to RSLs (updated November 2010) for residential soil. One-hundred and fifteen (109) constituents were detected in surface soil; of these, 32 were identified as COPCs and retained for further evaluation in the risk assessment, these include:

- 17 metals;
- PCBs as Total Aroclors;
- dioxins as 2,3,7,8-TCDD TEQs;
- furans as 2,3,7,8-TCDD TEQs;

- carcinogenic PAHs as benzo(a)pyrene TEQs;
- 6 SVOCs; and
- 5 VOCs.

Table 2.1 presents the summary statistics for constituents detected in surface soil, applicable screening criteria and their basis, and the rationale for the selection or exclusion of detected constituents as COPCs. Constituents identified as COPCs were retained for further evaluation in the risk assessment.

Note: at several locations, surface soils (0 to 2 ft bgs) were collected from more than one depth interval (e.g., 0 to 0.5 ft bgs and 0.5 to 2 ft bgs). For the purposes of screening, each soil sample was treated as a discrete location. However, prior to calculating risks, samples collected from multiple depths at a single location were averaged (using one-half the MDL for non-detect results) such that each location is represented by a single surface soil (0 to 2 ft bgs) concentration. Unless all sample concentrations at a given location were non-detect, the averaged location concentration was treated as a detected value in the exposure assessment.

3.3.2 Subsurface Soil

Eighty-five (85) subsurface soil samples (2 to 10 ft bgs) collected from 83 locations at the Site between July 2001 and May 2008 as part of the RI were evaluated in the HHRA. The majority of samples were analyzed for metals, inorganics, PCBs (as Aroclors), SVOCs (including PAHs), and VOCs; a subset of the samples was also analyzed for methyl mercury and dioxin and furan congeners. Maximum detected concentrations were compared to RSLs (updated November 2010) for residential soil. Ninety-eight (98) constituents were detected in subsurface soil; of these, 40 were identified as COPCs and retained for further evaluation in the risk assessment, these include:

- 17 metals;
- PCBs as Total Aroclors;
- dioxins as 2,3,7,8-TCDD TEQs;
- furans as 2,3,7,8-TCDD TEQs;
- carcinogenic PAHs as benzo(a)pyrene TEQs;
- 11 SVOCs; and
- 8 VOCs.

Table 2.2 presents the summary statistics for constituents detected in subsurface soil, applicable screening criteria and their sources, and the rationale for the selection or exclusion of detected constituents as COPCs. Constituents identified as COPCs were retained for further evaluation in the risk assessment.

Note: exposure to subsurface soil was considered a potentially complete exposure pathway for future construction/utility workers. Because subsurface soil (2 to 10 ft bgs) exposure cannot occur independently of surface soil (0 to 2 ft bgs) exposure, construction/utility workers were assumed to be exposed to "mixed" soil defined as 0 to 10 ft bgs. The mixed soil COPC list is inclusive of surface and subsurface soil COPCs. Prior to calculating risks, samples collected from multiple depths at a single location were averaged (using one-half the MDL for non-detect results) such that each location is represented by a single mixed soil (0 to 10 ft bgs) concentration. Unless all sample concentrations at a given location were non-detect, the averaged location concentration was treated as a detected value in the exposure assessment.

3.3.3 Groundwater

Groundwater samples collected from 20 on-site overburden wells between January and February 2007 as part of the RI were evaluated in the HHRA. These results represent the most recent monitoring well data and, therefore, reflect the most current conditions at the Site. Target analytes included total and dissolved metals, inorganics, pesticides, SVOCs (including PAHs), and VOCs. A subset of the samples was also analyzed for methyl mercury and dioxin and furan congeners. Maximum detected concentrations were compared to tapwater RSLs (updated November 2010) or, if an RSL was not available, Federal MCLs. Seventy-nine (79) constituents were detected in groundwater; of these, 38 were identified as COPCs and retained for further evaluation in the risk assessment, these include:

- 11 metals (total/unfiltered);
- cyanide (total/unfiltered)
- dioxins as 2,3,7,8-TCDD TEQs;
- furans as 2,3,7,8-TCDD TEQs;
- 14 SVOCs; and
- 10 VOCs.

Table 2.3 presents the summary statistics for constituents detected in groundwater, applicable screening criteria and their sources, and the rationale for the selection or exclusion of detected constituents as COPCs. Constituents identified as COPCs were retained for further evaluation in the risk assessment.

3.3.4 Sediment/Bank Soil

Seventy-four (74) surficial sediment/bank soil samples (0 to 0.5 ft bgs) were collected at the Site in and adjacent to South Branch Creek between July 2001 and June 2008 as part of the RI and analyzed for metals, inorganics, PCBs (as Aroclors), SVOCs (including PAHs), and VOCs. A subset of the samples was also analyzed for methyl mercury and dioxins and furan congeners. Maximum detected concentrations were compared to RSLs (updated November 2010) for

residential soil. Eighty (80) constituents were detected in sediment/bank soil; of these 22 were identified as COPCs and retained for further evaluation in the risk assessment, these include:

- 14 metals;
- PCBs as Total Aroclors;
- dioxins as 2,3,7,8-TCDD TEQs;
- furans as 2,3,7,8-TCDD TEQs;
- carcinogenic PAHs as benzo(a)pyrene TEQs;
- 2 SVOCs; and
- 2 VOCs.

Table 2.4 presents the summary statistics for constituents detected in South Branch Creek sediment/bank soil, applicable screening criteria and their sources, and the rationale for the selection or exclusion of detected constituents as COPCs. Constituents identified as COPCs were retained for further evaluation in the risk assessment.

3.3.5 Soil Vapor

Soil vapor samples were collected from 10 locations at the Site in June 2007 and analyzed for VOCs; in addition, four of these samples were analyzed for mercury. All constituents detected in soil vapor samples were identified as COPCs. A total of 36 VOCs and mercury were detected in soil vapor samples collected from the Site; therefore, these constituents were retained for further evaluation in the risk assessment. Table E-1 of Attachment E presents a summary of the soil vapor analytical results.

4. EXPOSURE ASSESSMENT

Exposure assessment is the process of measuring or estimating the intensity, frequency, and duration of human exposure to constituents in the environment. This section describes current and future land use assumptions, characterizes exposure factors for potential receptors, discusses the mechanisms by which these receptors might potentially come in contact with COPCs in environmental media, and estimates the degree of contact between potential human receptors and these constituents. This information is integrated with estimates of exposure point concentrations (EPCs) and intake assumptions to quantitatively estimate exposure (dose). In accordance with USEPA guidance, an exposure assessment consists of three basic steps (USEPA, 1989):

- characterization of the exposure setting (physical environment and potential receptors),
- identification of exposure pathways (constituent sources, exposure points, and exposure routes), and
- quantification of pathway-specific exposures (exposure point concentrations, calculation of receptor intakes, and exposure assumptions).

The first two components are described in detail in Section 2 and diagrammatically presented in the CSM (Figure 4). The third component is described in the following sections.

4.1 Exposure Point Concentrations

An EPC is an estimate of the concentration of a constituent in a medium within some specified exposure point. The RAGS Part D Table 3 Series presents the EPCs for surface soil (Table 3.1), mixed soil (Table 3.2), overburden groundwater (Table 3.3), and South Branch Creek sediment/bank soil (Table 3.4). Soil vapor EPCs are presented in Table E-1 of Attachment E. Note: EPCs do not account for visible elemental mercury as it was not possible to analyze these samples using conventional methods; however, it is assumed that areas with visible elemental mercury pose unacceptable risks to potential on-site receptors.

Soil and sediment EPCs were calculated as the upper confidence limit on the mean (UCL). Prior to calculating EPCs, soil samples collected from multiple depths at a single location were averaged (using one-half the MDL for non-detect results) such that each location was represented by a single concentration. Unless all sample concentrations at a given location were non-detect, the averaged concentration was treated as a detected value in the EPC calculation. The UCL was calculated using USEPA's (2009) ProUCL statistical software package (version 4.00.04); ProUCL uses an algorithm to select the optimal UCL based on the data distribution, sample size, and skewness. The ProUCL-recommended UCL and the data distribution are indicated in the RAGS Part D Table 3 Series. Attachment B presents the ProUCL outputs.

For groundwater, it was assumed receptors may ingest groundwater from a well installed at a particular location or may have direct contact with groundwater in a construction/utility trench at a particular location; therefore, the maximum detected concentration was conservatively selected as the groundwater EPC. The maximum detected concentration was also selected as the EPC for soil vapor due to the limited number of samples.

4.2 Calculation of Receptor Intakes

For the purpose of quantitative risk assessment, dose is the quantification of exposure to constituents in environmental media. This risk assessment considers two types of dose: administered dose and absorbed (internal) dose. An administered dose is the amount of constituent (concentration) in material that is ingested, applied to the skin, or inhaled and is available for absorption. Internal dose is the amount of constituent actually crossing the absorption barrier (i.e., the amount absorbed). The type of dose estimate used in a risk assessment is dependent on the route of exposure. Typically, the ingestion pathway is evaluated with the administered dose, and exposure is quantified by multiplying exposure concentrations by an intake rate (i.e., ingestion rate). On the other hand, dermal exposure is evaluated not for intake but for absorption of the constituent. For the dermal exposure route with COPCs in soil and sediment, an absorbed dose is calculated from the product of exposure concentration (administered dose), dermal absorption factor, and exposed surface area. In the risk characterization stage, dose estimates are combined with toxicity criteria to estimate potential risk associated with exposure to COPCs.

Estimation of potential risks using the standard USEPA representations of non-cancer (reference doses) and cancer (slope factors) toxicity requires the calculation of a daily dose of each compound received by the receptor. Ingested and dermally absorbed doses are presented in this risk assessment as a daily dose rate per unit body weight (milligram per kilogram body weight per day [mg/kg-day]); "Average Daily Dose" (ADD) and "Lifetime Average Daily Dose" (LADD) are the general parameters used to quantify ingestion and dermal exposure doses. Inhalation concentrations are calculated as the amount of constituent per cubic meter of air (milligrams per cubic meter [mg/m^3] or micrograms per cubic meter [$\mu g/m^3$]); "Average Daily Exposure" (ADE) and "Lifetime Average Daily Exposure" (LADE) are the general parameters used to quantify inhalation exposures. The ADD/ADE is used as a standard measure for characterizing long-term non-carcinogenic effects. The LADD/LADE addresses exposures that may occur over varying duration, which are averaged over a 70-year human lifetime; these are used in estimating potential carcinogenic risks. In the risk characterization stage, does estimates are combined with toxicity criteria to estimate potential risk associated with exposure to COPCs. Note for the inhalation pathway risk evaluation, receptor exposure concentrations are used in conjunction with concentration-based toxicity factors. The calculation of inhalation risks requires the consideration of intake of airborne concentrations of COPCs resulting from

volatilization (vapors) as well as airborne dusts (particulates) derived from contaminated soils. EPCs for the inhalation pathway are estimated based on the EPCs in soil.

The following subsections present the equations for calculating the intake from the exposure pathways evaluated in this risk assessment.

4.2.1 Soil Intake

Estimates of soil intake are described by the following equations:

Ingestion of soil:

$$(L)ADD_{ING} = \frac{C_{SOIL} \times IR_{SOIL} \times EF \times ED \times CF}{BW \times AT};$$

Dermal contact with soil:

$$(L)ADD_{DERM} = \frac{C_{SOIL} \times SA \times AF \times DAF \times EF \times ED \times CF}{BW \times AT}; \text{ and}$$

Inhalation of vapors/particulates from soil:

$$LADE_{CA} = \frac{C_{SOIL} \times \left(\frac{1}{VF} + \frac{1}{PEF}\right) \times EF \times ED \times ET \times CFt \times CFa}{AT_C}$$

$$ADE_{NC} = \frac{C_{SOIL} \times \left(\frac{1}{VF} + \frac{1}{PEF}\right) \times EF \times ED \times ET \times CFt}{AT_{NC}}$$

Where:

$(L)ADD_{ING}$ = (L)ADD via soil ingestion (mg/kg-day)

$(L)ADD_{DERM}$ = (L)ADD via dermal contact with soil (mg/kg-day)

$LADE_{CA}$= LADE to carcinogenic soil COPC vapors/particulates in air (µg/m^3)

ADE_{NC} = ADE to non-carcinogenic soil COPC vapors/particulates in air (mg/m^3)

C_{SOIL} = EPC of COPC in soil (mg/kg)

IR_{SOIL} = Soil ingestion rate (mg/day)

SA	=	Surface area of skin exposed (square centimeters [cm^2])
AF	=	Adherence factor (mg/cm^2-day)
DAF	=	Dermal absorption factor, chemical-specific (unitless)
VF	=	Volatilization factor (kg/m^3)
PEF	=	Particulate emission factor (kg/m^3)
EF	=	Exposure frequency (days/year)
ED	=	Exposure duration (years)
BW	=	Body weight (kg)
AT	=	Averaging time (days)
		AT_C = Carcinogens (70-year lifetime x 365 days)
		AT_N = Non-carcinogens (ED x 365 days)
CF	=	Units conversion factor (1×10^{-6} kg/mg)
CFt	=	Units conversion factor – time (1/24 day/hours)
CFa	=	Units conversion factor – air ($1 \times 10^{+3}$ µg/mg)

4.2.2 Groundwater Intake

Groundwater is currently not used for potable or other purposes at the Site. Due to the proximity of the Site to the Arthur Kill and other tidal waters, groundwater within this region, including the Passaic bedrock aquifer(s), is typically saline (Anderson, 1968). Overburden groundwater at the Site exceeds the New Jersey Safe Drinking Standards for naturally occurring salinity, making it unsuitable for potable purposes. In addition, two separate New Jersey regulations prohibit the installation of Category 1 or 2 wells thereby preventing use of groundwater from the overburden water-bearing zone for potable or other purposes (see Section 2.5).

However, the overburden water-bearing zone is classified as Class II-A potable groundwater. Thus, although this exposure pathway is not reasonably anticipated and is acknowledged as hypothetical, commercial/industrial worker ingestion of groundwater was quantitatively assessed to provide risk managers with information needed to evaluate the impact of any future changes in groundwater use at the Site. Should redevelopment occur at the Site, workers involved in intrusive activities (i.e., construction/utility workers) may potentially be exposed to groundwater at or near the water table via dermal contact. Construction/utility worker exposure to groundwater via ingestion and inhalation is qualitatively evaluated in the uncertainty assessment.

Estimates of groundwater intake via ingestion (commercial/industrial worker scenario) and dermal contact (construction/utility worker scenario) are described by the following equations:

$$(L)ADD_{ING} = \frac{C_{GW} \times IR_{GW} \times EF \times ED \times CF_W}{BW \times AT}$$

$$(L)ADD_{DERM} = \frac{C_{GW} \times SA \times K_P \times EF \times ED \times ET \times CF_W \times CF_V}{BW \times AT}$$

Where:

$(L)ADD_{ING}$	=	(L)ADD via ingestion of potable water (mg/kg-day)
$(L)ADD_{DERM}$	=	(L)ADD via dermal contact (mg/kg-day)
C_{GW}	=	EPC of COPC in groundwater (µg/L)
IR_{GW}	=	Groundwater ingestion rate (L/day)
SA	=	Surface area of skin exposed to soil (cm^2)
K_P	=	Dermal permeability constant (chemical-specific – cm/hr)
EF	=	Exposure frequency (days/year)
ED	=	Exposure duration (years)
ET	=	Exposure time (hours)
BW	=	Body weight (kg)
AT	=	Averaging time (days)
		AT_C = Carcinogens (70-year lifetime x 365 days)
		AT_N = Non-carcinogens (ED x 365 days)
CF_V	=	Units conversion factor – volume (1×10^{-3} L/cm^3)
CF_W	=	Units conversion factor – water (1×10^{-3} mg/µg)

4.2.3 Sediment Intake

The (L)ADDs for ingestion of and dermal contact with sediment/bank soil in South Branch Creek were calculated using the soil intake equations presented above. The volatilization of constituents from sediment/bank soil into the breathing zone is not considered a significant pathway due to its damp nature and vegetative cover and, therefore, was excluded from quantitative evaluation.

4.2.4 Soil Vapor Intake

The (L)ADEs for indoor air inhalation of soil vapors were calculated for a commercial/industrial worker. For this soil vapor to indoor air pathway, model-predicted indoor air concentrations (C_{ia}) from soil vapor were used in the following intake equation:

$$(L)ADE_{CA} = \frac{(C_{ia}) \times EF \times ED \times ET \times CFt \times CFa}{AT_C}$$

$$(L)ADE_{NC} = \frac{(C_{ia}) \times INH \times EF \times ED \times ET \times CFt}{AT_N}$$

Where:

C_{ia}	=	Indoor air COPC concentration from soil vapor (mg/m^3)
EF	=	Exposure frequency (days/year)
ED	=	Exposure duration (years)
ET	=	Exposure time (hours per day)
BW	=	Body weight (kg)
AT	=	Averaging time (days)
		AT_C = Carcinogens (70-year lifetime x 365 days)
		AT_N = Non-carcinogens (ED x 365 days)
CFt	=	Units conversion factor – time (1/24 day/hours)
CFa	=	Units conversion factor – air ($1 \times 10^{+3}$ µg/mg)

4.3 Exposure Parameters

Central tendency exposure (CTE) and upper-bound exposure (reasonable maximum exposure or RME) estimates were selected to quantify COPC intake for Site receptors. CTE exposure estimates are intended to represent average, or typical concentrations in environmental media, whereas RME exposure estimates represent concentrations that are greater than average, but still within a realistic range of Site concentrations.

The quantitative estimation of constituent intake involves the incorporation of numeric assumptions for a variety of exposure parameters. Exposure parameters were based primarily on default factors recommended by USEPA (1989) and provided in the Exposure Factors Handbook, Vols. I-III (USEPA, 1997) and RAGS Part E (USEPA, 2004). When default values were not available, best professional judgment was used to select inputs that characterize potential receptor exposure. Parameters to evaluate constituent intake/exposure are presented in the RAGS Part D Table 4 Series and described in the following subsections. CTE and RME exposure assumptions were developed for each receptor.

4.3.1 Future Commercial/Industrial Worker

Commercial/industrial redevelopment was considered realistic for the Site under future land use conditions. Therefore, future on-site commercial/industrial workers are potential receptors. This receptor is potentially exposed to COPCs in surface soil at the Site via ingestion, dermal, and inhalation of particulates and vapors. The exposure parameters utilized to estimate commercial/industrial worker exposure to soil COPCs are summarized below and presented in Tables 4.1a.RME and 4.1a.CTE.

- ***IR_{SOIL}:*** For the commercial/industrial exposure scenario, 100 mg/day and 50 mg/day were selected as the RME and CTE soil ingestion rates; these represent the USEPA default soil ingestion rates of outdoor and indoor workers, respectively (USEPA, 2002).
- ***SA:*** Commercial/industrial workers are assumed to be wearing short-sleeved shirts, long pants, and shoes; therefore, exposed skin is assumed to include the face, forearms, and hands. The USEPA default value of 3,300 cm^2 was selected for the RME and CTE exposure scenarios; this value is based on the median surface area occupied by 1/3 of the head (i.e., the face), 1/2 of the arms, and the hands of adults (USEPA, 2004a).
- ***AF:*** A soil-to-skin adherence factor of 0.2 mg/cm^2 was selected for the RME and CTE exposure scenarios for the commercial/industrial worker; this is the USEPA recommend value for outdoor workers (USEPA, 2002).
- ***EF:*** For the commercial/industrial exposure scenario, 250 and 225 days per year were selected as the RME and CTE exposure frequencies; these represent the USEPA default exposure frequency of indoor and outdoor workers, respectively (USEPA, 2002).
- ***ED:*** The USEPA default RME and CTE exposure durations of 25 years and 9 years, respectively, were selected for the commercial/industrial exposure scenario (USEPA, 2004a).
- ***ET:*** RME and CTE exposure time of 8 hours per day based on a 5-day, 40-hour work week (USEPA, 1991).
- ***BW:*** The USEPA (1991) default adult body weight of 70 kg was used to estimate RME and CTE exposures for the commercial/industrial worker scenario.
- ***AT***: Per USEPA Guidance (1989), the RME and CTE averaging time for noncarcinogens is equivalent to the exposure duration; the averaging time for carcinogens is based on a 70-year lifetime.

Groundwater at the Site is currently not used for any purposes (e.g., drinking water, irrigation). Future use of overburden groundwater for potable purposes is also unlikely given its salinity. In addition, two separate New Jersey regulations prohibit the installation of Category 1 or 2 wells thereby preventing use of groundwater from the overburden water-bearing zone for potable or

other purposes. However, the overburden water-bearing zone remains classified as Class II-A potable groundwater. Thus, although this exposure pathway is not reasonably anticipated and is acknowledged as hypothetical, commercial/industrial worker ingestion of groundwater was quantitatively assessed to provide risk managers with information needed to evaluate the impact of any future changes in groundwater use at the Site. The EF, ED, BW, and AT parameters are the same as those used to estimate potential commercial/industrial worker exposure to soil COPCs. The groundwater-specific exposure parameters are summarized below and presented in Tables 4.1b.RME and 4.1b.CTE.

- ***IR_{GW}:*** For the commercial/industrial exposure scenario, 1 L/day was selected as the RME and CTE groundwater ingestion rate; this is the USEPA default groundwater ingestion rate for workers and is based on the assumption that half of an individual's daily water intake occurs at work (USEPA, 1991).

4.3.2 Future Commercial/Industrial Worker (Site-Specific)

As stated in the previous section, commercial/industrial redevelopment is considered realistic for the Site under future land use conditions. In addition to the full-time commercial/industrial worker scenario, a reduced-frequency commercial/industrial ("site-specific") worker scenario is also evaluated. This scenario is based on potential redevelopment of the Site as a truck depot (parking lot). Under this scenario, full-time workers are not anticipated to be present at the LCP Site. Although this scenario is hypothetical, and it is acknowledged that such future land use would require institutional controls, the evaluation of this receptor supports remedial decision-making and risk management processes.

Site-specific workers (lot attendants) would likely be stationed at the adjacent IES property and periodically pick up and drop off trailers from the parking lot. The default exposure frequency used to assess risks to full-time commercial/industrial workers may be overly conservative for assessing risks to these receptors. For this scenario, site-specific workers are assumed to be exposed to COPCs in surface soil for 2 days per week for RME and 1 day per week for CTE, or 100 days per year and 50 days per year, respectively. Other exposure inputs are consistent with those of the default (full-time) commercial/industrial worker scenario. The exposure parameters utilized to estimate site-specific worker exposure to soil COPCs are presented in Tables 4.2.RME and 4.2.CTE.

4.3.3 Future Construction/Utility Worker

While engaged in short-duration construction/maintenance activities, future on-site construction/utility workers are potentially exposed to COPCs in surface soil and subsurface soil (evaluated as mixed soil) via ingestion, dermal contact, and inhalation of particulates and vapors. The exposure parameters utilized to estimate future construction/utility worker exposure to COPCs in mixed soil are summarized below and presented in Tables 4.3a.RME and 4.3a.CTE.

- ***IR_{SOIL}:*** For the construction/utility worker exposure scenario, 330 mg/day was selected as the soil ingestion rate for the RME and CTE scenarios; this value represents the USEPA (2002) default soil ingestion rate for construction workers.
- ***SA:*** Construction/utility workers are assumed to be wearing short-sleeved shirts, long pants, and shoes; therefore, exposed skin is assumed to include the face, forearms, and hands. The USEPA default value of 3,300 cm^2 was selected for the RME and CTE exposure scenarios; this value is based on the median surface area occupied by 1/3 of the head (i.e., the face), 1/2 of the arms, and the hands of adults (USEPA, 2002).
- ***AF:*** A soil-to-skin adherence factor of 0.3 mg/cm^2 was selected for the RME and CTE construction/utility worker exposure scenarios; this is the USEPA recommended value for outdoor workers and represents the 95th percentile weighted soil adherence factor for construction workers (USEPA, 2002).
- ***EF:*** Site-specific RME and CTE exposure frequencies of 130 and 65 days, respectively, were selected for the future construction/utility worker based on best professional judgment and site-specific conditions.
- ***ED:*** Should Site redevelopment occur, projects are expected to be of relatively short duration. One year was selected as the RME and CTE exposure duration for the construction/utility worker exposure scenario.
- ***ET:*** RME and CTE exposure time of 8 hours per day is based on a 5-day, 40-hour work week (USEPA, 1991).
- ***BW:*** The USEPA (1991) default adult body weight of 70 kg was used to estimate RME and CTE construction/utility worker exposure scenarios.
- ***AT***: Per USEPA Guidance (1989), the RME and CTE averaging time for non-carcinogens is equivalent to the exposure duration; the averaging time for carcinogens is based on a 70-year lifetime.

The depth to groundwater at the Site is shallow (typically less than 5 ft bgs). As a result, there is the potential for future construction/utility workers to have infrequent, short duration dermal contact with shallow (overburden) groundwater while conducting intrusive activities. The SA, EF, ED, ET, BW, and AT parameters are the same as those used to estimate potential commercial/industrial worker exposure to soil COPCs. The groundwater-specific dermal exposure parameters are presented in Tables 4.3b.RME and 4.3b.CTE.

4.3.4 Current/Future Adolescent Trespasser

Although access to the majority of the Site is restricted by engineering controls (i.e. fencing), trespassers may periodically gain access to South Branch Creek and its associated overbanks, and potentially be exposed to impacted sediment and soil. The exposure parameters utilized to estimate potential intake of COPCs in sediment via incidental ingestion and dermal contact are summarized below. Volatilization of constituents from sediment into the breathing zone is not

considered a significant pathway and therefore, is not quantitatively evaluated. The exposure parameters utilized to estimate potential COPC intake are presented below. Note: exposure for adult trespassers would likely be less than the adolescent trespassers; therefore, risks calculated for the adolescent trespasser are expected to be protective of an adult trespasser. Tables 4.4.RME and 4.4.CTE present the exposure parameters adopted for the trespasser.

- ***IR_{SED}***: Default sediment ingestion rates have not been determined by USEPA; as such, soil ingestion rates were used to estimate sediment ingestion by adolescent trespassers. The mean soil ingestion rate for children was selected as the RME value and the mean soil ingestion rate for adults was selected as the CTE value; these ingestion rates correspond to 100 mg/day and 50 mg/day, respectively (USEPA, 1997).
- ***SA:*** Adolescent trespassers in South Branch Creek are assumed to be wearing short-sleeve shirts and shorts; therefore, exposed skin is assumed to include the face, forearms, lower legs, hands, and feet. The average skin surface occupied by 1/3 of the head (i.e., the face), 1/2 of the arms and legs, the hands, and the feet, for males and females ages 7 to 16 (USEPA, 1997) was calculated to represent both the RME and CTE SA values; this corresponds to a value of 4,100 cm^2.
- **AF_{SED}:** Default sediment-to-skin adherence factors have not been determined by USEPA; as such, activity-specific soil-to-skin adherence factors were used to estimate dermal exposure to sediment. The median, weighted soil adherence factor for reed-gatherers was selected as the RME and CTE sediment AF for adolescent trespassers and corresponds to a value of 0.3 mg/cm^2 (USEPA, 2004a).
- ***EF:*** Based on current Site conditions, Site location (i.e., relatively distant from residential areas), and engineering controls which limit access by unauthorized personnel, trespassing is considered unlikely. However, there is a potential that trespassers may access South Branch Creek via boat from the Arthur Kill. While possible, such an event is likely to occur infrequently as the nearest boat launch is several kilometers away, only low (e.g., canoe-height) crafts can successfully navigate under the tank farm pipe bridge near the mouth of the creek, and the large tidal range results in total drainage of South Branch Creek during low tide. Therefore the RME exposure scenario assumes a trespasser will visit the Site once a week during the non-winter months (March to October), which corresponds to a value of 32 days per year; the CTE exposure scenario assumes a trespasser will visit the Site once a week during the summer months (June through August) which corresponds to a value of 12 days per year.
- ***ED:*** Adolescent trespassers are assumed to be at the Site for a period of 10 years (ages 7 to 16). This exposure duration is consistent with the time period for an older child/adolescent as presented in the Exposure Factors Handbook (EPA, 1997).
- ***BW:*** An age-adjusted average BW for males and females ages 7 to 16 was used for the adolescent trespasser (USEPA, 1997). This corresponds to a value 43 kg.

- ***AT***: Per USEPA Guidance (1989), the RME and CTE averaging time for non-carcinogens is equivalent to the exposure duration; the averaging time for carcinogens is based on a 70-year lifetime.

4.4 Vapor Intrusion Model Input Parameters

The potential exists for VOCs to volatilize from the subsurface into indoor air. This pathway was evaluated using the J&E (1991) Model (USEPA, 2004b), which estimates the potential migration of subsurface vapors into indoor air for a commercial/industrial worker. The J&E Model computer spreadsheet model is public domain software that is freely available at the USEPA internet website. The model accounts for the diffusion of chemicals through the subsurface, the advection of chemicals through soil and concrete slabs due to pressure differentials between the soil and buildings, and the mixing in indoor air caused by heating and ventilation systems.

The J&E Model may be applied using soil matrix, soil vapor, or groundwater concentration data. Soil vapor data are typically the preferred medium from which to evaluate the vapor intrusion pathway. The model requires the characterization of several building-specific parameters including building size (area and floor height), slab thickness, crack fraction (the ratio of crack area to building area), ventilation rate, and volumetric flow rate of soil vapor into the building.

Inputs for the commercial/industrial worker scenario are those recommended by NJDEP (2005) and generally correspond to the USEPA default values. The USEPA default building dimensions were used (1000 cm × 1000 cm) with a proposed ceiling height of 12 ft (366 cm) for a commercial/industrial building (Table E-2 of Attachment E). An air exchange rate of 1 exchange per hour was used in the model, a value commonly used for commercial/industrial buildings. The USEPA default soil gas entry rate of 5 liters per minute (l/min) per 100 m^2 of floor space was used to represent the flow rate of chemicals from directly below the building foundation into indoor air. Default soil physical parameters (e.g., soil bulk density and total soil porosity) for soil type Sand (S) were used in the J&E Model; a default fraction organic carbon of 0.002 was used in the model (USEPA, 2002a). These default values for Sand soil type are presented in the USEPA version of the J&E Model spreadsheet. The sand soil type was assumed based on the most conservative of the soil types identified in the soil vapor probes. For the soil vapor-to-indoor air pathway, maximum soil vapor EPCs (Table E-1 of Attachment E) and a soil vapor sample depth of 2 ft bgs were used in the model for the commercial/industrial scenario based on the average depth at which the soil vapor probes were screened. For the soil-to-indoor air pathway, the maximum soil EPC for elemental mercury (10% of 7,870 mg/kg = 787 mg/kg) was considered for use in the risk assessment since only four soil vapor samples were analyzed for mercury. However this concentration resulted in a predicted soil vapor concentration far exceeding the maximum possible soil vapor concentration as represented by the vapor pressure. The pure chemical vapor pressure can be used to calculate an upper-bound value for the chemical concentration that may be present in the vapor phase in soil. The soil vapor

concentration overprediction using the maximum soil concentration was due to the equilibrium partitioning equations used in the model where linearity between the soil and vapor phase chemical concentrations are assumed irrespective of physical limitations based on chemical properties such as solubility or vapor pressure. To account for this, mercury indoor air concentrations were estimated by inputting the concentration based on the vapor pressure into the soil vapor model used for the VOC evaluation. The estimated indoor air concentration using this approach represents the maximum concentration possible even if free-phase product or precipitate is present in the soil under the given exposure conditions.

The input parameters used in the J&E Model to evaluate the indoor air pathway are presented in Attachment E. The predicted indoor air concentrations from the model were used as EPCs in the estimation of potential risk and hazard. The J&E Model spreadsheets including the model inputs, intermediate calculations, predicted indoor air concentrations, and risk estimates are presented in Attachment E for soil vapor and soil matrix.

5. TOXICITY ASSESSMENT

The toxicity assessment provides a description of the relationship between a dose of a chemical and the potential likelihood of an adverse health effect. The purpose of the toxicity assessment is to provide a quantitative estimate of the inherent toxicity of COPCs for use in risk characterization. In the context of the regulatory risk assessment process, potential effects of chemicals are separated into two categories: carcinogenic (cancer) and non-carcinogenic (non-cancer) effects. This division relates to current USEPA policy that the mechanisms of action for these endpoints are different. The USEPA generally makes the conservative assumption that carcinogenic chemicals do not exhibit a response threshold[2] (USEPA, 1986; 2005), while non-carcinogenic effects are recognized as threshold phenomena. However, chemicals that are believed to be carcinogenic may also be capable of producing non-cancer health effects. Potential health risks for COPCs are evaluated for both carcinogenic and non-carcinogenic risk.

The risk assessment used the default toxicity values presented in the RSL Tables (updated November 2010), which cites the following hierarchy of primary sources:

- Integrated Risk Information System (IRIS) on-line database;
- Provisional Peer Reviewed Toxicity Values (PPRTVs) derived by USEPA's Superfund Health Risk Technical Support Center (STSC) for the USEPA Superfund program;
- Agency for Toxic Substances and Disease Registry (ATSDR) minimal risk levels (MRLs);
- California Environmental Protection Agency/Office of Environmental Health Hazard Assessment's (CalEPA/OEHHA);
- Screening toxicity values in an appendix to certain PPRTV assessments; and
- USEPA Superfund program's Health Effects Assessment Summary Tables (HEAST).

5.1 Non-Carcinogenic Chemicals

It is well accepted that non-carcinogenic biological effects of chemicals occur only after a threshold dose is exceeded (Klassen, 2001). This concept implies that a range of exposures up to some defined threshold can be tolerated without appreciable risk of harm. Potential effects may be precluded at concentrations below the threshold by pharmacokinetic processes such as decreased absorption, distribution to non-target organs, metabolism to less toxic chemical forms,

[2] A threshold indicates that a minimum amount of drug or chemical agent is required to elicit an effect. For example, certain metals such as iron and selenium are toxic above a threshold dose but safe and, in fact, required dietary components at lower doses. For carcinogens, EPA assumes that no threshold exists and that there is some increased risk at every dose level.

and excretion (USEPA, 2005). Once the threshold dose is reached, one or more of these processes may become compromised, resulting in toxic responses.

Potential non-carcinogenic effects resulting from human exposure to chemicals are generally estimated quantitatively using reference doses (RfDs) and reference concentrations (RfCs). The RfD, expressed in units of daily dose (mg/kg-day), is an estimate of the daily maximum level of exposure to human populations (including sensitive sub-populations) that is likely to be without an appreciable risk of deleterious effects (USEPA, 1989). For inhalation exposures, USEPA has derived RfCs for some chemicals. In concept, an inhalation RfC is similar to an RfD. If the concentration of a chemical in air to which a human is exposed is lower than the RfC, then there is no appreciable risk for non-cancer health effects from that exposure.

The threshold dose (i.e., RfD/RfC) for a compound is usually estimated from the no observed adverse effect level (NOAEL) or the lowest observed adverse effect level (LOAEL), as determined from animal studies or human data. The NOAEL is the highest dose at which no adverse effects are identified, while the LOAEL is the lowest dose at which adverse effects are detectable. Safety factors are applied to either the NOAEL or the LOAEL to estimate an RfD/RfC in order to account for uncertainties such as: the extrapolation from animals to humans, the time period of exposure, and the potential for sensitive individuals within the human population.

Non-carcinogenic toxicity criteria are typically only available for oral (RfD) and inhalation (RfC) exposures. In this risk assessment, dermal RfDs were extrapolated from the oral RfDs using a constituent-specific GI_{ABS} factor. This factor represents the relationship between an administered dose and an absorbed dose for the oral route, essentially estimating the dose that enters a receptor's circulation and elicits a toxic effect. Constituent-specific oral absorption factors were obtained from the RSL Tables.

Tables 5.1 and 5.2 present the oral/dermal RfDs and inhalation RfCs, respectively. The Tables also include their sources, uncertainty/modifying factors, GI_{ABS} factors, and target organs.

5.2 Carcinogenic Chemicals

For regulatory purposes, the USEPA generally makes the conservative assumption that carcinogenic chemicals do not exhibit a response threshold (USEPA, 1986). However, recent scientific evidence clearly indicates that this assumption is an oversimplification of carcinogenic responses. A growing number of chemicals have been shown to elicit carcinogenic effects in experimental animals via mechanisms that are: (a) not relevant to human biological processes; or (b) are not expected to occur in humans at significantly lower, environmentally relevant doses (James and Saranko, 2000). The USEPA has recently revised the Guidelines for Carcinogen Risk Assessment (2005), in which they recognize these issues and provide alternative approaches for addressing them within the regulatory framework for cancer risk assessment.

Potential carcinogenic effects resulting from human exposure to chemicals are estimated quantitatively using cancer slope factors (SFs), which represent the theoretical increased risk per milligram of constituent intake per kilogram body weight per day $(mg/kg\text{-}day)^{-1}$, or unit risk factors (URFs), which are the theoretical increased risk at a defined exposure concentration $(mg/m^3)^{-1}$. SFs or URFs are used to estimate a theoretical upper-bound lifetime probability of an individual developing cancer as a result of exposure to a potential carcinogen.

SFs/URFs are derived by the USEPA from the results of chronic animal bioassays, human epidemiological studies, or both. Animal bioassays are usually conducted at dose levels much higher than those likely to be achieved by human exposure to environmental media. Such high levels are used in order to detect possible adverse effects in the relatively small test populations used in the studies. Therefore, a large degree of conservatism exists in the form of high-dose to low-dose extrapolation. Human epidemiological studies often are based on historical occupational exposures at levels much higher than those currently experienced in environmental settings, requiring quantitative extrapolation to account for the dose differences.

USEPA has developed SFs specific to the oral route of exposure and URFs specific to the inhalation route of exposure. In this risk assessment, dermal SFs were extrapolated from the oral SFs using a GI_{ABS} factor obtained from the RSL Tables.

Tables 6.1 and 6.2 present the oral/dermal SFs and inhalation URFs, respectively. The Tables also include their source, GI_{ABS} values, and IRIS carcinogenic class.

5.3 Other Risk Model Input Parameters

5.3.1 Dermal Pathway: DAF

The cancer and non-cancer risk equations include a dermal absorption factor (DAF) to address intake from dermal contact with chemicals in soil and sediment. This is a unitless value that represents desorption of the chemical from soil and the absorption of the chemical across the skin and into the bloodstream. DAF values are those reported in the RSL Tables. Dermal risks were only calculated if a chemical-specific DAF was available in the RSL Tables. DAFs are included in Tables 5.1 and 6.1.

5.3.2 Inhalation Pathway: PEF and VF

A particulate emission factor (PEF) is used to address intake from inhalation of chemicals on soil-derived particulates. This value is a function both of Site and local climatic conditions. The formula for calculating a PEF value is taken from the USEPA's Soil Screening Guidance (SSG – USEPA, 1996b). In calculating a PEF for the Site, default parameters from the SSG were used except for the soil particulate dispersion coefficient (Q/C) term. The default Q/C value reported in the SSG was replaced with a Q/C value for a 5 acre site in Philadelphia, Pennsylvania which geographically is the closest city with data available in the SSG, and is therefore more

representative of regional conditions. The Q/C value and site-specific PEF are 46.59 g/m^2-s per kg/m^3 and 6.75 x 10^{-8} m^3/kg, respectively.

Calculation of risks via the inhalation pathway requires the inclusion of a volatilization factor (VF) for volatile chemicals defined as chemicals having a molecular weight less than 200 and a Henry's Law Constant greater than 1 x 10^{-5}. VFs are calculated using several chemical- and site-specific parameters and are intended to define the relationship between the concentration of a chemical in soil and the flux of the volatized contaminants to air. Site-specific VFs were calculated using the default equation presented in the SSG (USEPA, 1996b).

Equations and inputs of PEF and VF calculations are presented in Tables A-7.1 through A-7.4 of Attachment A. The chemical-specific VFs are also summarized in Tables 5.2 and 6.2 of the RAGS Part D series.

5.4 Risk Evaluation for Lead

A risk evaluation for lead differs from the evaluations of other chemicals. The USEPA has not developed an RfD for lead because the data suggest that lead is a non-threshold toxicant. Because an RfD would be inappropriate for a non-threshold toxicant, the USEPA has developed alternative methods to understand and evaluate the potential risks associated with exposure to lead-impacted media.

Rather than base human health risk estimates on the calculated intake of a chemical divided by an RfD, potential risks associated with lead are evaluated through the prediction of blood lead (PbB) concentrations. USEPA has developed separate methodologies for estimating risk associated with lead exposure for residents and non-residents. For non-residential exposures, the Adult Lead Model was developed by the USEPA as a method of relating soil lead intake to PbB concentrations in women of childbearing age (USEPA, 1996a).

The potential toxicity and the model to evaluate the effects are discussed in more detail in Attachment C.

5.5 Risk Evaluation for Mercury and Mercury Speciation

Mercury in soil and sediment is the primary environmental contaminant at the Site. Mercury was used at the Site in the production of chlorine and sodium hydroxide via electrolytic decomposition of saturated brine where metallic mercury was used as an electrical cathode. Other lesser sources of mercury on-site include atmospheric deposition, coal combustion (area and regional, and subsequent coal combustion by-products), and the use of miscellaneous gauges, switches, thermometers, etc. at the facility that contained mercury. Soil and sediment samples were analyzed for total mercury across the Site, with concentrations ranging from non-detect to 7,870 mg/kg. Elemental mercury was observed in some shallow soils around the brine

cell buildings with visible spheres ranging in size from small pin-points to marble-sized spheres. The extent of visual mercury is shown in Figure 6. (Note: concentration maps for mercury are presented in the RI Report.)

Exposure to elemental mercury in soils in the area around the cell building, where elemental mercury was observed, is considered a potentially complete exposure pathway for the future on-site receptors. However, because it is not possible to analyze these samples with conventional analytical methods, risks could not be quantitatively evaluated. It is assumed that areas with visible elemental mercury pose unacceptable risks to potential on-site receptors. Potential risks associated with elemental mercury in soil are discussed further in the uncertainty assessment.

In the environment, mercury may be present in many different forms including elemental mercury, inorganic mercury, and methyl mercury. Each of these forms has different physical and chemical properties as well as demonstrated toxicological effects and may undergo a number of chemical or biological transformations influencing both mobility and bioavailability. Methyl mercury is the most toxic of the mercury species and generally occurs in aquatic settings where inorganic mercury is transformed to methyl mercury through a variety of pathways. The methyl mercury may then enter the food chain or be volatilized back into the atmosphere. Generally, higher dissolved organic carbon (DOC) levels will result in decreased mobility of mercury and methyl mercury as mercury is likely to bind to DOC making it less bioavailable. Ultraviolet light has been demonstrated to break down methyl mercury to inorganic divalent mercury (HgII) or elemental mercury (Hg0), allowing the mercury to volatilize back to the atmosphere and removing it from the food chain (USGS, 2000).

An evaluation of the fractions of each mercury species at the Site is essential to understanding the impact of mercury in Site soils on potential human health and ecological risks. Bloom *et al*. (2003) recommend that elemental mercury determinations be performed using a weight of evidence approach that includes visual observations (microscopic and macroscopic), a number of analytical and spectroscopic techniques, and comparison of reported concentrations in soil to solubility limits. Assessment activities at the LCP Site used many of these lines of evidence to develop an understanding of elemental mercury presence and distribution.

Figure 6 shows the estimated extent of visible elemental mercury identified during field investigations. Three samples (230-B-101-0-01, 231-102-0-1, SS-08-05-0.5) that were collected from this area, but did not contain visible elemental mercury were submitted for mercury speciation testing along with several other soil and sediment samples collected outside the footprint from various areas of the Site.

Mercury sequestration and speciation was performed on soil samples using the procedures outlined by Bloom *et al*. (2003). The Bloom sequential extraction procedure (SEP) consists of five extractions, which generally become increasingly aggressive and are used to identify specific mercury binding phases (fractions). After the full sequence, it is possible to estimate the

relative importance of sorption mechanisms by comparing relative recoveries of the five extraction steps. Understanding which of the five possible sorption mechanisms is occurring is important to understanding the bioavailability of mercury and, thus, one can dramatically improve the understanding of the attenuation processes and understand in greater detail the true risks posed by mercury to human and ecological receptors.

The extraction steps are as follows:

- Fraction 1 (F1) – Water soluble mercury: This fraction involves suspension of the sample solids in air-free reagent water and is similar to toxicity characteristic leaching procedure (TCLP) analysis. F1 is a predictor of the potential for mercury to leach from soils during precipitation or groundwater migration. Mercury species that appear during this extraction include the water soluble salts (mercuric chloride [$HgCl_2$], mercuric nitrate [$Hg(NO_3)_2$], Hg-fulvate complexes, etc.). Mercury species associated with this fraction are considered to be more bioavailable than those in the remaining fractions.
- Fraction 2 (F2) – pH 2 soluble mercury: A pH 2 solution of hydrochloric acid (HCl) and methyl peroxide (CH_3OOH) is added to the sample to assess the leachate of mercury under acidic conditions; typical mercury compounds seen in this extractant include $HgCl_2$, mercuric oxide (HgO), and mercuric sulfate ($HgSO_4$). This extraction is intended to mimic extraction of mercury by the human stomach after ingestion, or leachability under conditions similar to acid mine drainage. Samples with high TOC will typically have low results from this extraction due to the readsorption of HgII by humic matter.
- Fraction 3 (F3) – 1N potassium hydroxide (KOH) extractable mercury: In this step, a 1N solution of KOH is added to the sample, and mercury associated with humic organic matter is solubilized without solubilizing mercuric sulfide (HgS). This fraction typically dominates marine and freshwater sediments; mercury species that appear during this extraction include dimercury dichloride (Hg_2Cl_2), methyl mercury (CH_3Hg), and HgK. The concentrations from this fraction have been found to strongly correlate with methyl mercury concentrations, as well as the methylation potential of the sample.
- Fraction 4 (F4) – 12 N HNO_3 soluble mercury: A 12 N HNO_3 solution is added to the sample to leach out the remaining non-HgS species such that the fifth fraction is representative of HgS only. Mercury species that appear during this extraction include silver-mercury amalgam (Ag-Hg), amorphous HgS, and elemental mercury. Mercury species from F4 are considered to be bioavailable, although less so than those detected in F1.
- Fraction 5 (F5) – Aqua Regia soluble mercury: This step involves the addition of aqua regia (3:1 HCl + HNO_3) to the sample to elute out HgS (cinnabar and metacinnabar) from the sample. If present, HgSe and noble metal amalgams of mercury (such as Au-Hg, etc.)

will also be detected in this fraction. Species detected in F5 are not generally considered to be bioavailable.

- SUM – Total mercury by the sum of species: The sum of the fractions may be considered equivalent to the total mercury content of a sample. However, due to the heterogeneity observed in field samples, the fraction sum to total mercury determined using an independent method may not be directly comparable.

Studies have shown that while SEP cannot identify all mercury species present in a given environment, they can provide valuable information on the biogeochemical behavior of various classes or fractions of mercury species under a variety of conditions. These studies have also shown that the percentage of methyl mercury found in select sediments is positively correlated with F3 results and negatively correlated with the results from F4 and F5. In addition, the soluble mercury (defined as the sum of F1 and F2) compares well with both the mercury extracted using the TCLP method and *in vitro* simulated human stomach extraction tests (Bloom *et al.*, 2003).

5.5.1 Mercury Speciation Results

Several locations across the Site were sampled for one or more mercury speciation analyses. These samples included:

- 3 samples obtained at areas near the cell building where the presence of elemental mercury is suspected, but has not been observed;
- 12 samples obtained outside the area where visible elemental mercury was visually observed or is suspected during previous sampling events; and
- 7samples obtained from within South Branch Creek

The locations of all speciated mercury sampling, including those with visual evidence of elemental mercury are noted on Figure 6.

Two laboratories, Battelle Marine Sciences (Battelle) and Frontier Geosciences, Inc. (Frontier), performed SEP and other mercury analysis to assess the presence and/or contribution of elemental to total mercury levels in soil and sediments. As noted above, none of the collected samples (including those in the estimated elemental mercury footprint) had visible evidence of elemental mercury. The results of the mercury speciation analyses are discussed in the following subsections.

5.5.1.1 Sequential Extraction Procedure

Six soil samples, including two collected in the estimated elemental mercury footprint, were submitted to Battelle in December 2006 for SEP analysis. In addition, seven sediment samples collected from South Branch Creek were submitted to Frontier in May 2008 for SEP analysis.

SEP analytical results are summarized in Table A-6.1 of Attachment A. Please note that both dry weight and aqueous mercury concentrations from F1 are provided in Table 1.

Mercury liberated from soil/sediment in F1 may include a number of potential mobile mercury forms including elemental mercury, $HgCl_2$, some organic forms (e.g., CH_3Hg), and mercury oxides (HgO). Bloom *et al*. (2003) note that, "…because [elemental mercury] reaches saturation in water at approximately 50 µg/L, values measured at or near this concentration in F1 suggest that the sample contains free liquid metallic mercury."

As shown in Table A-6.1, two soil samples collected outside the estimated elemental mercury footprint (LP-102-0-1 and BSL-101-0-1) and one soil sample collected within the estimated elemental mercury footprint near the closed RCRA unit (231-102-01) were reported to have F1 concentrations greater than the 50 µg/L (0.05 mg/L) threshold, indicating the potential presence of elemental mercury. None of the samples contained mercury concentrations in F1 greater than the 0.05 mg/L threshold. Thus, these results provide evidence that the mercury present in South Branch Creek sediments does not contain elemental mercury forms at appreciable concentrations.

5.5.1.2 Analysis for SEP Fraction 1 for Elemental Mercury

As noted above, the mercury in F1 may include water soluble mercury forms other than elemental mercury. As such, an aliquot of water from the F1 SEP extraction from the six soil samples collected in the vicinity of the main process areas (December 2006) was analyzed to provide a more quantitative estimate of the elemental mercury concentration in F1 (Table A-6-2 of Attachment A). Results indicate that elemental mercury was present at concentrations ranging from 0.0056 to 12 µg/L. These results suggest that comparing the total mercury from F1 to the saturation concentration (0.50 mg/L) may overestimate elemental mercury. A similar analysis was not conducted for the South Branch Creek sediment samples analyzed by SEP.

5.5.1.3 Headspace Analysis for Volatile Mercury

Eight soil samples collected in May 2008, outside the estimated extent of elemental mercury, were submitted to Frontier for quantification of total and elemental mercury analysis via headspace analysis. The analysis consisted of heating a subsample of soil (5 to 6 grams) to approximately 1400 degrees Celsius (C) and collecting the volatized elemental mercury on a series of two traps. The headspace analysis results are presented in Table A-6.3 of Attachment A. The total elemental mercury collected from the two traps ranged from an estimated value of 0.04 to 264 mg/kg. The percent elemental mercury ranged from 1 to 15% with a mean concentration of 5%. The analyses represent the only direct comparison of the contribution of elemental mercury in the whole sample to the total mercury reported in a straight soil digestion.

It should be noted that the elemental mercury headspace analysis, like the SEP, is operationally-defined and the extraction and analytical process is likely to include other mercury forms (e.g., $HgCl_2$ and Hg bound to organic matter) that result in an overestimation of elemental mercury concentrations. Bloom *et al.* (2003) note that, "…we have also found high rates of volatilization for $HgCl_2$ and Hg bound to organic matter. In every case where we have applied thermal volatilization to environmental samples that contained no detectable [elemental mercury] in either the headspace or F1 extractant, we have detected substantial quantities (5 to 30 %) of the total as volatile mercury. Thus, the thermal volatilization method may substantially overestimate the amount of [elemental mercury] present in natural samples." Consequently, the analytical results provided herein provide a conservative estimate of the elemental concentration of soil and sediment samples.

5.5.2 Mercury Speciation Conclusions

The analytical and investigation data described above provide multiple lines of evidence to identify the contribution of elemental mercury to total mercury in Site soils and sediments. During the two phases of the RI field work performed at the Site, elemental mercury was observed in the areas beneath and around the mercury cell buildings (Buildings 230 and 240) (Figure 6).

Comparison of soil and sediment SEP results for total mercury from F1 (Table A-6.1) indicates the following:

- concentrations of mercury in sediment samples were all below the 0.05 mg/L equilibrium threshold suggesting that elemental mercury is an unsubstantial portion of F1; and
- three of the six soil samples (LP-102-01-, 231-102-0-1, and BLS-101-0-1) collected from areas of elevated mercury concentrations in soil, had concentrations above the 0.05 mg/L equilibrium threshold.

Elemental mercury speciation on the aliquot from SEP F1 indicates low concentrations of elemental mercury (< 0.012 mg/L) in all of the samples, including the samples where total water soluble mercury concentrations were above the 0.05 mg/L equilibrium threshold in F1.

Bloom *et al.* (2003) note that, "…all free [elemental] mercury in a sample will dissolved in the cold 12 M HNO3 (F4) step. Although this measurement is potentially confounded by other compound classes such as HgI, mercury bound up in amorphous organo-sulphur Hg-Ag amalgams, or crystalline Fe/Mn oxide phases, it may be interpreted as an estimate of total elemental mercury in cases where elemental mercury was confirmed by the saturation of the F1 fraction of visual identification." Using this criteria, only the three soil samples (LP-102-01-, 231-102-0-1, and BLS-101-0-1) with water soluble (F1) mercury concentrations greater than 0.05 mg/L would suggest the potential for elemental mercury in F4.

Direct elemental mercury analysis on soil samples via headspace analysis (Table A-6.3) estimates that no more than 15% of the mercury in soil at these locations could be elemental mercury. As noted above, this estimate is biased high due to the presence of other mercury forms that are known to volatize at the temperature used during this analysis.

Based on the evidence presented above, a general Site value of 10% was selected as the proportion of total mercury assumed to be elemental mercury in all surface soil samples from the Site. Total mercury content of each sample was used to derive an elemental mercury value for that same sample. The inferred elemental mercury value was used in subsequent risk calculations at that sample location.

In areas with visual evidence of mercury spheres, risk may be different than those calculated using a default 10% elemental mercury concentration. While it is possible that the proportion of elemental mercury in these samples is higher or lower than 10% of the total mercury, there is no way to directly calculate this given the analytical limitations. As a conservative measure, areas of the Site with visual mercury are considered areas of elevated human health risk through direct contact (i.e., ingestion, dermal contact, inhalation of vapors and particulates in ambient air) and inhalation exposure by the vapor intrusion pathway into indoor air route. It is assumed that remedial actions to limit exposure to elemental mercury in soil will be necessary to address this area of the Site. Therefore, this data was not included in the quantitative risk assessment results presented in Section 6.

Elemental mercury was detected in samples adjacent to and nearby the former cell building. The area with known or suspected elemental mercury contamination is shown as the shaded area on Figure 6.

5.5.3 Mercury Toxicity Values

As described in the previous section, it was assumed that total mercury samples in Site soil and sediment outside the estimated extent of visible elemental mercury consist of 10% elemental mercury and 90% inorganic mercury. These two forms of mercury differ in terms of their primary exposure routes and toxic endpoints. For elemental mercury, exposure primarily occurs via inhalation whereas inorganic mercury compounds are more readily absorbed through the gastrointestinal tract or through the skin (WHO, 2003). Once it is inhaled, elemental mercury primarily affects the neurological and behavioral systems in humans. While similar symptoms have been observed following ingestion or dermal contact with inorganic forms of mercury, the primary long-term effects for these exposure pathways are renal damage resulting from immunological affects. Currently there is no credible evidence that exposure of humans to either elemental mercury or inorganic mercury compounds results in cancer (WHO, 2003). Based on these considerations, it is appropriate to use different toxicity values to evaluate the potential risks associated with exposure to these two forms of mercury.

Currently, oral RfDs and inhalation RfCs are available from USEPA (2010) to evaluate oral and inhalation non-cancer risks from both elemental and inorganic mercury. The RfDo and RfC for inorganic mercury are based on toxicological studies conducted using mercuric chloride. Mercuric chloride is classified as a Class C "possible" human carcinogen; however, neither a slope factor nor unit risk factor has been developed. Cancer toxicity values have not been developed for other forms of mercury either; thus, potential cancer effects from exposure to mercury could not be quantitatively evaluated. USEPA does not currently recommend a DAF for mercury; thus, dermal risks were also not quantitatively evaluated. Uncertainty associated with the mercury toxicity values is discussed further in Section 7.

6. RISK CHARACTERIZATION

The risk characterization integrates the exposure information for current and future receptors with the toxicological data to yield quantitative estimates of theoretical excess lifetime cancer risks and non-cancer hazard indices (HIs) for COPCs. These estimates provide a quantitative representation of the relationship between hypothetical exposures and potential toxic responses.

Risk estimates are calculated for individual COPCs for the potentially complete exposure pathways discussed in Section 2.1.3 and presented in the CSM (Figure 4). Separate estimates are provided for each receptor scenario. In accordance with USEPA guidance, risk characterization also includes summing COPC-specific risk estimates across exposure pathways and media to determine the total cancer risk and non-cancer HI for each receptor.

Soils in the area around the cell building, where elemental mercury spheres were observed, were not analyzed for mercury by any method as it is not possible with conventional analytical methods. Therefore, the risk associated with exposure to these soils was not quantitatively evaluated. However, it is reasonable to believe that risks from exposure in areas with visual elemental mercury exceed the site-wide risk calculations for future commercial/industrial, site-specific, and construction/utility workers. Therefore, the elemental mercury "footprint" area shall be considered as having unacceptable levels of risk for each of these scenarios. Remedial actions to limit exposure to elemental mercury in soil will be necessary to address this area of the Site. The area of elemental mercury is located adjacent to the former cell building and delineated by field observation as shown on Figure 6.

6.1 Calculation of Theoretical Excess Cancer Risks

Theoretical excess lifetime cancer risks for receptors are expressed as an estimated upper-bound probability of additional lifetime cancer risk due to exposure to site-related constituents. These estimates do not reflect a receptor's overall risk of cancer (e.g., one-in-three to one-in-five range), but only the highest additional incremental risk that is theoretically expected to result from exposure to Site constituents.

Theoretical excess cancer risks are calculated for each COPC for each complete exposure pathway. The upper-bound estimate of excess risk for each COPC is calculated by multiplying the chronic daily dose estimated for that COPC by its corresponding route-specific cancer SF or URF (USEPA, 1989).

The general equations for estimating chemical-specific cancer risks are as follows:

$$ELCR = LADD \times SF$$

$$ELCR = LADE \times URF$$

Where:

ELCR = theoretical excess lifetime cancer risk (unitless),

LADD = lifetime average daily dose (mg/kg-day)

LADE = lifetime average daily exposure ($\mu g/m^3$)

SF = cancer slope factor (1/mg/kg-day)

URF = unit risk factor ($1/\mu g/m^3$)

Overall, theoretical excess cancer risks for complete pathways and receptors were estimated by summing all COPC-specific risk estimates. This form of summarization incorporates the assumption that carcinogenic risks from multiple constituent exposures are additive. This assumption ensures that excess lifetime cancer risks for each COPC, pathway and receptor are theoretical upper-bound estimates (i.e., the actual risk is very unlikely to be higher, and is expected to be lower). The USEPA (1989) recognizes a generally acceptable cumulative excess cancer risk range between one in one million and one in ten thousand (1×10^{-6} to 1×10^{-4}).

6.2 Calculation of Potential Non-Cancer Risks

Potential non-cancer risks for individual COPCs are expressed as hazard quotients (HQs) (USEPA, 1989). HQs are calculated as the ratio of the estimated daily intake of each COPC to the corresponding route-specific RfD. HQs are calculated using the following general equation:

$$HQ = ADD / RfD$$

$$HQ = ADE / RfC$$

Where:

HQ = hazard quotient (unitless),

ADD = average daily dose (mg/kg-day)

ADE = average daily exposure (mg/m^3)

RfD = reference dose (mg/kg -day)

RfC = reference concentration (mg/m^3)

The potential for non-cancer effects is expressed as a chemical-specific HQ. An HQ of 1 is typically considered a threshold requiring further evaluation since it indicates that exposure could be higher than the "no-effect" dose represented by the RfD/RfC. HQs are not an estimate of the likelihood that an effect will occur, but rather an indication of whether there is a potential for adverse effects. Furthermore, the magnitude of a HQ is not a direct guide to the potential

R2-0006060

severity of effect because there is considerable variability in the derivations of RfDs/RfCs and in the type and severity of critical effect on which the RfDs/RfCs are based.

If multiple chemicals are evaluated, the HQs are summed to yield a multiple-chemical hazard index (HI). The HI serves as a conservative summary of pathway and receptor risks since summing all the individual COPC HQs incorporates the assumption that their risks are all additive, when, in fact, different COPCs are expected to act through different mechanisms and on different target organs. The overall HIs are useful for rapidly excluding pathways or receptors with negligible potential for non-cancer effects (i.e., where all the COPC HQs added together do not exceed an HI of one). USEPA guidance recognizes that non-carcinogenic effects are exhibited in specific target organs and that certain chemicals can act in an additive fashion on the same organ. USEPA requires the summing of non-carcinogenic risks for constituents that affect the same target organs when the HI exceeds 1 (USEPA, 1989). USEPA's acceptable HI is 1 or less for groups of chemicals that affect the same target organ (USEPA, 1989).

6.3 Risk Characterization Results

The following subsections discuss the risk characterization results for each receptor-exposure scenario evaluated. The risk characterization was performed to quantify the potential human health risks associated with potential current and future receptors exposed to COPCs in environmental media at the Site. This HHRA quantitatively evaluated default commercial/industrial worker exposure to surface soil (0 to 2 ft bgs) and overburden groundwater (ingestion only); site-specific worker exposure to surface soil (0 to 2 ft bgs); construction/utility worker exposure to mixed soil (0 to 10 ft bgs) and shallow groundwater (dermal contact only); and trespasser exposure to surficial sediment/bank soil (0 to 0.5 ft bgs) in and along South Branch Creek. The calculated risks and hazards are presented by exposure route in Tables 7.1 through 7.4 and summarized by exposure media in Tables 9.1 through 9.4. Potential risks associated with pathways identified for qualitative evaluation in the HHRA are discussed in the uncertainty assessment.

The USEPA recognizes a generally acceptable cumulative excess lifetime cancer risk range between one in one million and one in ten thousand (1×10^{-6} to 1×10^{-4}) and an acceptable HI of 1 or less for groups of chemicals that affect the same target organ (USEPA, 1989). Constituents with cancer risks greater than 1×10^{-6} or no-cancer HQs greater than 0.1 are summarized in Tables 10.1 through 10.4.

6.3.1 Future Commercial/Industrial Workers

The cumulative RME and CTE cancer risks calculated for future commercial/industrial workers exposed to surface soil (0 to 2 ft bgs) and overburden groundwater (as potable water) exceeded USEPA's acceptable risk range; the cumulative excess cancer risks were 5.1×10^{-3} for RME and 1.6×10^{-3} for CTE. Consumption of groundwater made the most significant contribution to

overall risks. The majority of overburden groundwater COPCs had cancer risks exceeding 1.0×10^{-6} for both RME and CTE scenarios; however, only arsenic and benzene (RME only) had individual cancer risks exceeding 1.0×10^{-4}. Currently groundwater is not used for potable purposes; if groundwater ingestion remains an incomplete exposure pathway, no unacceptable CTE cancer risks would be identified for future commercial/industrial workers at the Site (cumulative CTE soil risks are within the acceptable risk range). Barring groundwater exposure, the calculated excess cancer risks (i.e., from surface soil exposure) were 1.2×10^{-4} for RME and 2.6×10^{-5} for CTE. Arsenic, PCBs, furans, carcinogenic PAHs, and hexachlorobenzene in soil had individual cancer risks greater than 1.0×10^{-6}.

The cumulative RME and CTE non-cancer HIs calculated for future commercial/industrial workers exposed to surface soil and overburden groundwater exceeded the benchmark value of 1 indicating the potential for non-carcinogenic effects; the cumulative HIs were 190 for RME and 170 for CTE. Consumption of groundwater made the most significant contribution to overall hazards. In groundwater, arsenic, cobalt, iron, manganese, mercury, methyl mercury, vanadium, furans, p-chloroaniline, benzene, and chlorobenzene had individual RME and CTE cancer risks exceeding 1. Barring groundwater exposure, the calculated HIs (i.e., from surface soil exposure) were 11 for RME and 6.9 for CTE. Exposure to elemental mercury via the inhalation pathway and exposure to inorganic mercury via the ingestion pathway made the most significant contribution to total surface soil HI; no other COPCs resulted in an individual RME or CTE HQs greater than 1.

Results of the soil vapor-to-indoor air risk characterization are presented in Table E-3 of Attachment E. Potential carcinogenic risks calculated for future commercial/industrial workers exposed to soil vapors in indoor air at the Site were determined to be within the USEPA acceptable risk range. The calculated cumulative theoretical excess cancer risk was 4.1×10^{-6}. Chloroform and hexachlorobutadiene had individual cancer risks greater than 1.0×10^{-6}; no individual risks exceeded 1.0×10^{-6}. The non-cancer HI calculated for future commercial/industrial workers exposed to soil vapors in indoor air was 4.8, which exceeds the benchmark value of 1. Non-cancer risks were driven by elemental mercury; no other individual HQs exceeded 1.

As noted previously, soils in the area around the cell building, where elemental mercury spheres were observed, could not be quantitatively evaluated in the risk assessment. Areas with visible elemental mercury assumed to pose unacceptable risks to future commercial/industrial workers based on direct contact soil exposure (i.e., ingestion, dermal contact, and inhalation of particulates and vapors) and via inhalation of vapors in indoor air.

6.3.2 Future Site-Specific Workers

The cumulative RME and CTE cancer risks calculated for future site-specific workers exposed to surface soil (0 to 2 ft bgs) were determined to be within the USEPA acceptable risk range; the

cumulative excess cancer risks were 4.7×10^{-5} for RME and 5.7×10^{-6} for CTE. Arsenic (RME only), PCBs (RME only), furans, carcinogenic PAHs, and hexachlorobenzene had individual cancer risks greater than 1×10^{-6}.

The cumulative RME and CTE non-cancer HIs calculated for future site-specific workers exposed to surface soil exceeded the benchmark value of 1, indicating the potential for non-carcinogenic effects; the cumulative HIs were 4.4 for RME and 1.5 for CTE. Exposure to elemental mercury via inhalation and exposure to inorganic mercury via ingestion made the most significant contribution to total HI. Elemental mercury and inorganic mercury had individual HQs greater than 1 (RME only); no other COPCs resulted in an individual HQ greater than 1.

As noted previously, soils in the area around the cell building, where elemental mercury spheres were observed, could not be quantitatively evaluated in the risk assessment. Areas with visible elemental mercury assumed to pose unacceptable risks to future site-specific workers based on direct contact soil exposure (i.e., ingestion, dermal contact, and inhalation of particulates and vapors).

6.3.3 Future Construction/Utility Worker

The cumulative RME and CTE cancer risks calculated for future construction/utility workers exposed to mixed soil (0 to 10 ft bgs) and shallow (overburden) groundwater (at the water table) were determined to be within the USEPA acceptable risk range; the cumulative excess cancer risks were 5.1×10^{-5} for RME and 2.6×10^{-5} for CTE. In mixed soil, arsenic (RME only), furans, and hexachlorobenzene (RME only) had individual cancer risks greater than 1×10^{-6}. In groundwater, dioxins, furans, p-chloroaniline, 1,2,4-trichlorobenzene (RME only), and benzene (RME only) had individual cancer risks greater than 1×10^{-6}.

The cumulative RME and CTE non-cancer HIs calculated for future construction/utility workers exposed to mixed soil and shallow groundwater exceeded the benchmark value of 1 indicating the potential for non-carcinogenic effects; the cumulative HIs were 78 for RME and 39 for CTE. Dermal contact with groundwater made the greatest contribution to overall risk; individual groundwater COPC HQs for manganese, mercury (RME only), vanadium, dioxins, furans, and chlorobenzene exceeded 1. In soil, individual HQs exceeded 1 for elemental mercury, inorganic mercury, vanadium (RME only), and furans (RME only).

As noted previously, soils in the area around the cell building, where elemental mercury spheres were observed, could not be quantitatively evaluated in the risk assessment. Areas with visible elemental mercury assumed to pose unacceptable risks to future construction/utility workers based on direct contact soil exposure (i.e., ingestion, dermal contact, and inhalation of particulates and vapors).

6.3.4 Current/Future Trespassers

The cumulative RME and CTE cancer risks calculated for current/future adolescent trespassers exposed to sediment/bank soil associated with South Branch Creek were determined to be within the USEPA acceptable risk range. The cumulative theoretical excess cancer risks calculated were 2.5×10^{-5} for RME and 5.9×10^{-6} for CTE. Arsenic was the most significant contribution to the total risk; no other COPCs resulted in an individual RME or CTE excess cancer risk greater than 1×10^{-6}.

The cumulative RME and CTE non-cancer HIs calculated for current/future adolescent trespassers exposed to sediment/bank soil associated with South Branch Creek were 1.4 for RME and 0.28 for CTE. Thus, the CTE HI is below the benchmark value of 1 indicating a limited potential for non-cancer effects. The total RME HI slightly exceeds 1; however, because no target organ HIs exceed 1, no COCs are identified for this receptor-exposure pathway based on non-carcinogenic risks.

6.4 Evaluation of Lead

Rather than base human health risk estimates on the calculated intake of a chemical divided by an RfD, potential risks associated with lead are regulated through the prediction of PbB (blood lead) concentrations. USEPA has developed the Adult Lead Model (ALM) for estimating risk associated with lead exposure for non-residents. Results of the ALM provided in Attachment C and discussed below.

The estimated PbB and fetal PbB (PbB_{fetal}) concentrations based on average lead concentrations in surface soil at the Site for the future commercial/industrial worker were 3.0 and 8.3 μg/dL, respectively. The probability that the PbB_{fetal} concentration will exceed 10 μg/dL is 2.8%. The estimated PbB and PbB_{fetal} concentrations indicate that exposure to lead at the Site is not expected to cause adverse health effects from commercial/industrial worker exposure to surface soils.

The estimated PbB and PbB_{fetal} concentrations based on average lead concentrations in surface soil at the Site for the future site-specific workers were 2.4 and 6.7 μg/dL, respectively. The probability that the PbB_{fetal} concentration will exceed 10 μg/dL is 1.3%. The estimated PbB and PbB_{fetal} concentrations indicate that exposure to lead at the Site is not expected to cause adverse health effects from site-specific worker exposure to surface soils.

The estimated PbB and PbB_{fetal} concentrations based on average lead concentrations in mixed soil at the Site for the future construction/utility worker were 3.5 and 9.8 μg/dL, respectively. The probability that the PbB_{fetal} concentration will exceed 10 μg/dL is 4.8%. The estimated PbB and PbB_{fetal} concentrations indicate that exposure to lead at the Site is not expected to cause

adverse health effects from construction/utility worker exposure to a mix of surface and subsurface soils.

The estimated PbB and PbB_{fetal} concentrations based on average lead concentrations in sediment/bank soil at the Site for the future trespassers were 2.2 and 6.1 μg/dL, respectively. The probability that the PbB_{fetal} concentration will exceed 10 μg/dL is 0.90%. The estimated PbB and PbB_{fetal} concentrations indicate that exposure to lead at the Site is not expected to cause adverse health effects from trespassers exposure to South Branch Creek sediment/bank soil.

7. UNCERTAINTY ASSESSMENT

Uncertainties are inherent in the process of quantitative risk assessment due to the use of environmental sampling results, assumptions regarding exposure, and the quantitative representation of chemical toxicity. Analysis of the critical areas of uncertainty in risk assessment provides a better understanding of the quantitative results through the identification of the uncertainties that most significantly affect the results.

USEPA guidance stresses the importance of providing an in-depth analysis of uncertainties so that risk managers are better informed when evaluating risk assessment conclusions (USEPA, 1989). The following significant sources of uncertainty have been identified for this assessment.

- ***Data Collection:*** The dataset used in the HHRA included soil samples collected during multiple field analytical phases between 2001 and 2008. Most of these samples reflect recent field efforts and therefore, most likely provide an accurate estimate of current constituent concentrations at the Site. However, the age of some data contributes to uncertainty in the risk assessment. Since industrial operations had stopped substantially before this time and some degree of degradation has likely occurred, the concentrations in the included samples are expected to be conservative representations of current conditions.
- ***Natural Degradation***: It was assumed that chemical concentrations remain constant over the duration of exposure (i.e., 25 years for a commercial/industrial worker). No abiotic or biotic degradation mechanisms, which reduce the concentrations of COPCs over time, are assumed to occur. This general assumption of steady-state conditions also applies to sources and chemical release mechanisms and may result in a conservative estimation of long-term exposure concentrations.
- ***Focused Sampling***: Because the objective of the investigation process is to define the nature and extent of contamination, samples are not all collected from random locations. In fact, monitoring wells and soil borings tend to be collected in areas of suspected impact. Such directed sampling tends to overestimate constituent concentrations to which receptors may be exposed.
- ***Constituent Identification:*** Uncertainty associated with the identification of constituents in environmental samples is relatively low. The sampling protocol was targeted to appropriate analytes based on historical information, extensive prior investigation, and regulatory guidance. However, a lack of dissolved groundwater data for insoluble organic compounds is a source of uncertainty and may result in an overestimate of risks from exposure to groundwater.
- ***Mercury Speciation:*** The speciation of mercury is subject to some uncertainty. Based on the mercury speciation results, total mercury concentrations in soil (outside the elemental mercury footprint) were assumed to be comprised of 10% elemental mercury. This assumption is slightly more than double the average proportion of elemental mercury from the speciation data. Because risks from elemental mercury

tend to be higher than those from mercury compounds, the risk for mercury across the Site may be biased high. However, in areas near the cell building where visible mercury was observed, the proportion of elemental mercury to total mercury may exceed 10%. Risks from soils in this area may be underestimated; however, all risks in this area are assumed to be unacceptable.

- ***Conceptual Site Model:*** Generally, this risk assessment focused on reasonably foreseeable future land use scenarios and receptors (i.e., residential was not considered); however, the hypothetical future use of overburden groundwater was also evaluated. Currently, overburden groundwater is not used for potable or other purposes on-site. Due to the proximity of the Site to the Arthur Kill and other tidal waters, groundwater within this region, including the Passaic bedrock aquifer(s), is typically saline (Anderson, 1968). Site groundwater exceeds the New Jersey Safe Drinking Standards for naturally occurring salinity, making it unsuitable for potable purposes. In addition, two separate New Jersey regulations prohibit the installation of Category 1 or 2 wells thereby preventing use of groundwater from the overburden water-bearing zone for potable or other purposes (see Section 2.5). However, because the overburden water-bearing zone is classified as Class II-A potable groundwater, hypothetical future commercial/industrial worker ingestion of overburden groundwater was quantitatively assessed to provide risk managers with information needed to evaluate the impact of any future changes in groundwater use at the Site. Inclusion of this exposure pathway significantly overestimated potential site-wide risks to commercial/industrial workers.

  Several potentially complete exposure pathways identified in the CSM were excluded from quantitative evaluation in the HHRA on the basis that these pathways were insignificant relative to other exposure pathways. The potential impacts to the risk estimates are qualitatively discussed below by receptor:

  - Construction Worker: Construction/utility worker exposure to mixed soil and overburden groundwater (via dermal contact only) were quantitatively evaluated in the risk assessment. Construction/utility workers also have the potential to incidentally ingest groundwater or inhale groundwater vapors while conducting intrusive activities at or near the water table. Exclusion of these pathways may have potentially underestimated risks; however, the magnitude of effect is likely to be minimal given that construction/utility activities are unlikely to occur in areas with substantial amounts of groundwater readily available ingestion and that, with the exception of elemental mercury which could not be quantitatively analyzed and/or evaluated, the Site risk-drivers are non-volatile. It should also be noted that several conservative assumptions were included in the dermal risk estimates, which likely overestimated risks. It was assumed that construction/utility workers have dermal contact with groundwater during the entire project (8 hours per day, 130 days per year), which is unlikely. In addition, the dermal permeability (Kp) values are based on submerged conditions with dissolved phase constituents whereas dermal contact is likely to

be with saturated soil and, thus, constituents in forms less readily absorbed through the skin.

The current construction/utility worker groundwater risk estimates indicate cancer risks are within the acceptable risk range; however, non-cancer risks exceed the benchmark value of 1, indicating the potential for non-cancer risk. Thus, inclusion of the likely insignificant groundwater ingestion and inhalation pathways would not impact the conclusions, that there are unacceptable risks associated with construction worker exposure to overburden groundwater. These risks will be addressed as a component of the remedy, likely through institutional controls.

- Trespasser Exposure: Adolescent trespasser exposure to sediment in South Brach Creek was quantitatively evaluated in the HHRA. Given that the primary COPCs in South Branch Creek are metals, which tend to bind to sediment, this is considered the most significant exposure pathway for South Branch Creek. However, a trespasser could also potentially be exposed to surface water. Calculated trespasser-sediment risk estimates indicate cancer risks are within the acceptable risk range. Calculated trespasser-sediment non-cancer risk estimates slightly exceed the benchmark value of 1 (driven by mercury); however, all target organ HIs are less than 1 indicating a limited potential for non-cancer health effects. Although COPC concentrations in surface water tended to be low/non-detect, the inclusion of this pathway in the quantitative evaluation could potentially result in unacceptable non-cancer risks to trespassers. However, it is anticipated that as a component of the risk management strategy for the Site, all exposure pathways related to South Branch Creek will be eliminated. Thus, exclusion of the surface water exposure pathway does not affect the remedy.

  Currently trespasser access to the upland portions (i.e., soils) of the Site is restricted by perimeter fencing that surrounds the majority of the former operational areas. Per the Order and RI Work Plan, perimeter fencing and signage are required at the Site through the duration of the RI/FS process. Access to Site soils is further limited as the majority of the Site is covered with buildings, pavement, or gravel. Thus, exposure to soil under current Site conditions is an incomplete exposure pathway for trespassers and was not quantitatively evaluated in the HHRA. It is acknowledged that the current barriers to access may not be present under future land use conditions thereby increasing the likelihood for trespassing. Under baseline (i.e., unremediated conditions) it is assumed that areas of visible elemental mercury would pose unacceptable risks to adolescent trespassers. Relative to commercial/industrial workers, adolescent trespassers' exposure frequency and exposure duration would be lower, resulting in reduced risk estimates (approximately 1/8th the risk); however, trespassers also have greater sensitivity to mutagens (i.e., hexavalent chromium and benzo(a)pyrene equivalent), higher soil ingestion rates, and lower body weights, which increases potential risks. Calculated RME risks for commercial/industrial workers exposed to soil were 1.2×10^{-4} for cancer

R2-0006068

and 11 for non-cancer. Based on the differences in exposure and chemical-sensitivity, trespasser exposure to soil would likely result in borderline acceptable cancer and non-cancer risks, driven by arsenic and benzo(a)pyrene (cancer) and mercury (non-cancer). Importantly, IES has indicated its willingness to maintain the current barriers to access throughout the FS. Moreover, remedial actions to address commercial/industrial workers will also be protective of trespassers.

- ***COPC Selection:*** Constituents with maximum detected concentrations exceeding residential, risk-based screening criteria were identified as COPCs for further quantitative evaluation in the HHRA. Given that future land use is anticipated to be commercial/industrial and future use of groundwater is unlikely, the use of residential screening levels reduces the uncertainty associated with the screening process. In addition, screening levels for non-carcinogens were adjusted 10-fold to account for potential additive effects. Tables A-4.1 through A-4.4 of Attachment A provide summary statistics for constituents that were not detected in a given media and compares these concentrations to the same conservative screening criteria used for detected constituents. As indicated in the tables, a limited number of constituents had maximum MDLs that exceeded these criteria; however, these constituents were not further evaluated. Exclusion of these constituents as COPCs potentially underestimated overall risks; however, the magnitude is unlikely to be significant. Given the number of samples collected at the Site, if a constituent were present to any significant extent, it would likely have been detected. Moreover, inclusion of these constituents would not affect the conclusion that mercury is the primary risk driver nor would it affect the remedy.
- ***Exposure Point Concentrations:*** In the derivation of EPCs, the inclusion of the MDL as a proxy concentration for chemicals below the MDL (non-detects) could overestimate risks for chemicals with a low frequency of detection. Alternatively, it could underestimate risks by lowering the mean for a constituent that is present. Likewise, the use of a UCL as the exposure point concentration could underestimate or overestimate risks. Assumptions about the distribution of the data must be made in the calculation of a UCL and, therefore, contribute to uncertainty in the calculation. In several cases, a 97.5% or 99% UCL was recommended, which reduces the likelihood of underestimating risks. In surface soil, ProUCL recommended a 99% UCL for total mercury, which corresponds to a concentration of 1,226 mg/kg. As shown in Table A-1.1, over 90% of samples collected had concentrations below this value; however, a limited number of samples collected near the “footprint” resulted in high variability and a higher recommended UCL. By comparison, the 95% UCL for the recommended method was 796 mg/kg. In groundwater, maximum detected concentrations were utilized as the EPC based on the assumption that receptors may ingest groundwater from a well installed at a particular location or may have direct contact with groundwater in a construction/utility trench at a particular location. The use of a maximum detected concentration as the EPC likely over-estimates risk.

- ***Fraction Contaminated:*** Exposure parameters used in this evaluation assume the receptors spend the entire exposure day at the Site. While this assumption is reasonable for construction/utility or industrial scenarios, trespassers or site-specific workers are unlikely to spend the entire day within the LCP property. Therefore, the intake parameters based on inhalation and ingestion of soils are likely biased high relative to the actual exposure resulting in overly conservative estimates of risk.
- ***Use of Default Exposure Factors:*** In general, USEPA default exposure factors (e.g., ingestion rates, dermal absorption factors) were used in this assessment. These recommended defaults are based on limited data and are chosen to represent a reasonably maximally exposed individual. The exposure assumptions used for the RME approach are considered conservative and likely lead to overstating the most probable estimate of potential risk. For example, the RME exposure scenario assumes a hypothetical commercial worker will work at the Site for 25 years and be exposed to an upper bound estimate of uncovered skin surface area (e.g., 3,300 cm^2 of exposed skin) every day, regardless of the weather conditions. Use of USEPA default values increases the overall uncertainty associated with estimates of constituent intake. The intentional conservatism makes it unlikely that exposures are underestimated.
- ***Exposure Intervals:*** Default commercial/industrial workers and site-specific workers are assumed to be exposed to soil in the interval 0 to 2 ft bgs; construction/utility workers are assumed to be exposed to soil in the interval 0 to 10 ft bgs. Because concentrations of several constituents tend to attenuate with depth, this may under estimate exposure concentrations if the majority of contact is expected to be with the top layer of soil. However, because the majority of soil samples were collected from the uppermost soil layer, this effect is not likely to be significant. In addition, should redevelopment occur at the Site, this characterization is likely more representative as construction activities are likely to result in bringing soils that are presently at depth to the surface.
- ***Use of Default Soil Physical Properties***: Default soil physical parameters for soil type 'Sand' were used in the vapor intrusion model. Lack of site-specific values may introduce some uncertainty into the vapor modeling and may result in an over-prediction or under-prediction of vapor inhalation exposures from beneath the surface.
- ***Fate and Transport Modeling***: Soil vapor data were used as inputs into the vapor intrusion model for VOCs. Due to site conditions there is a thin vadose zone layer in portions of the Site. This resulted in soil vapor samples collected at depths of less than 5 ft bgs. At these depths, there is uncertainty in the results due to the potential for ambient air contributions resulting in either lower vapor concentrations or the detection of chemicals that are in ambient air that are not representative of subsurface soil vapor. In addition, for mercury, only four samples were collected so the more robust soil dataset was evaluated. A review of the soil matrix data indicated that mercury was detected at the Site at concentrations that resulted in modeled soil vapor concentrations that exceeded the vapor pressure, indicating that even if free phase

chemical is present in soil or groundwater, estimated risks would not exceed the risk levels presented the HHRA. The use of soil vapor data was also considered preferable to modeling indoor air concentrations primarily because elemental mercury (which is the primary risk driver) is not soluble and would likely result in a gross underestimation of indoor air risks.

- ***Toxicity Factors (General):*** Uncertainty is inherent in the toxicity values utilized in evaluating the carcinogenic and non-carcinogenic risks. Most of the toxicity values (i.e., RfDs and SFs) used in this risk assessment were developed by the USEPA for regulatory purposes and are intended to represent upper-bound estimates of potential toxicity. For example, most of the RfDs incorporate large uncertainty factors and probably lie well below the true threshold for toxicity in humans. While this helps ensure the protectiveness of decisions based on the RfD, it should be recognized that a dosage exceeding the RfD (i.e., the HQ is greater than one) does not necessarily indicate the likelihood for toxicity. Similarly, the SFs developed by the USEPA incorporate a number of conservative choices in risk extrapolation. These include the assumption of a linear, non-threshold dose-response relationship for cancer, interpretation of animal carcinogenicity data, and dose-metrics for extrapolation of results from rodents to humans. As a result, cancer risk estimates using these values reflect upper-bound estimates of risk associated with specific exposures. Toxicity information was generally not available for dermal exposure; hence, several assumptions were made in order to calculate dermal-adjusted SFs and RfDs. These assumptions may overestimate or underestimate risk.
- ***Surrogates:*** Toxicity values were not identified for a limited number of constituents detected at the Site. In this instance, surrogate screening values were selected in order to identify COPCs. For several chemicals where structural similarity was readily apparent, surrogates were selected on that basis. For example, endosulfan (a mixture) was used to represent endosulfan sulfate, endosulfan I, and endosulfan II. Likewise, endrin was used to represent endrin aldehyde and endrin ketone. For other chemicals considered in this analysis without USEPA toxicity values (or RSLs) conservative and therefore health-protective toxicity/screening values were selected.

  There is uncertainty in the use of surrogates; however, it is unlikely that these constituents contribute to overall risks in light of the relatively clear risk driver (i.e., mercury) and corresponding risk estimates.
- ***Mutagenicity:*** The USEPA has indicated that risks from carcinogenic chemicals with a mutagenic mode of action may be as much as 3-times greater for children ages 6 to 16 (e.g., the adolescent trespasser). Mutagenic COPCs at the Site are limited to hexavalent chromium and carcinogenic PAHs (evaluated as benzo(a)pyrene TEQ). Thus, potential carcinogenic risks to adolescent trespassers may have been underestimated. Calculated trespasser-sediment cancer risks are within the risk range (driven by arsenic) and neither the risks from hexavalent chromium nor benzo(a)pyrene TEQ exceed the lower end of USEPA's acceptable risk range (1.0×10^{-6}). Quantitative evaluation of the potential mutagenic effects would increase the overall cancer risk estimates for adolescent trespassers; however, individual risk

from both mutagenic COPCs at the Site would remain less than 1.0×10^{-6}. Thus, neither the overall outcome of the risk assessment nor the selected remedy would be affected.

- ***Mercury Toxicity Values:*** Non-cancer toxicity values used to evaluate risks from inorganic and elemental mercury were obtained from the USEPA RSL Tables (updated November 2010). Oral RfDs and inhalation RfCs were available for both inorganic and elemental mercury; however, dermal non-cancer risks could not be quantitatively evaluated, as a chemical-specific DAF is not available for mercury from the RSL Tables. Because the primary exposure route for elemental mercury is via inhalation and the primary exposure route for inorganic mercury is via ingestion, exclusion of the dermal pathway is not likely to have a significant impact on the outcome of the risk assessment. Furthermore, with the exception of the areas of the Site were elemental mercury is visible, the assumption that mercury samples are composed of 10% elemental mercury is considered highly conservative. USEPA has not developed cancer toxicity values for any mercury compounds, including mercuric chloride, which USEPA classifies as a Class C "possible" human carcinogen; thus, the potential for cancer risks could not be quantitatively evaluated. Overall cancer risks may be underestimated; however, because mercury is a more potent non-carcinogen (systemic toxicant) than carcinogen, remedial actions will be driven by potential non-cancer risk estimates. Thus, the exclusion of the cancer endpoint will not affect the remedy.

- ***Risks Relative to Source of Chemicals:*** The risk characterization identified mercury and several other chemicals that have the potential to result in adverse effects. The presence of mercury at the Site can largely be attributed to historic operations conducted at the Site. However, concentrations of several of the other chemicals detected in environmental media at the Site are commonly associated with naturally occurring inorganics, anthropogenic sources, and contamination associated with the historical fill. Thus, the concentrations at the Site may not be entirely attributable to site operations or release.

  Metals including lead and several other compounds occur naturally in soils and groundwater at varying concentrations. Over time, the concentration of naturally occurring metals in soil and groundwater will be influenced by geomorphologic processes such as erosion, weathering, and dissolution of mineral deposits. For example, arsenic background values reported by the USGS for Union County (USGS, 2008) range to 20 mg/kg; 80% of surface soil concentrations detected at the Site are below this value.

  Human activities, particularly in urban environments, may also result in anthropogenic "background" concentrations of chemicals in environmental media. Common anthropogenic background sources include lead from automobile emissions, arsenic from use of defoliants, petroleum compounds from automobile and equipment leaks, pesticides/herbicides from agricultural practices, and polynuclear aromatic hydrocarbons from combustion of hydrocarbons. Widespread, ambient anthropogenic impacts as a result of historic activities are typical of industrial settings

such as that of the Site. Ambient background concentrations were documented by the NJDEP in the Urban Piedmont area of New Jersey (NJDEP, 2003). Investigations conducted in the vicinity of the LCP Site have indicated that historic activities conducted at neighboring properties (e.g., duPont, GAF, NOPCO) included the use of arsenic and chlorobenzenes. In addition, the New Jersey Turnpike, completed in 1954, crosses Piles Creek west of the GAF site. The Turnpike is a regional source of contaminants typical of road runoff, such as heavy metals (particularly lead), BOD/COD, nutrients, oil and grease, PAHs, pesticides, herbicides, and PCBs, as well as of contaminants released through spills and accidents on the roadways. Several contaminants, including dioxins are found in regional sources and can be transported via air and sediment deposition.

Attributing elevated chemical concentrations at the Site is further complicated by the fact that the LCP facility, along with most of the industrial property on Tremley Point, is constructed on former lowlands brought up to grade by the placement of fill material. The fill material used on the LCP Site included soil, ash, dredge spoil, demolition debris, and other waste materials and meets the legal definition of "Historic Fill" contained in the New Jersey "Technical Requirements for Site Remediation" [N.J.A.C. 7:26E]. Contaminants that are ubiquitous in fill materials include metals (e.g., lead, chromium, and arsenic) and PAHs as a result of the use of combustion residue (e.g., coal ash and slag) as fill.

There is uncertainty associated with determining whether the concentrations of some chemicals detected at the Site and the resultant risks are Site-related or are attributable to the industrial nature of the area or naturally-occurring background. Risks from metals (e.g., arsenic, chromium, lead) and organics (PAHs and dioxins) are likely increased due to the presence of these chemicals in Site media from non-Site-related sources. Risk management for the Site should consider the potential role of naturally occurring inorganics, anthropogenic sources, and contamination associated with the historical fill when considering remedial options.

8. RISK ASSESSMENT SUMMARY AND CONCLUSIONS

This HHRA evaluated the potential exposure of human receptors to constituents detected in environmental media at the LCP Superfund Site. The objectives of the HHRA were to determine whether COPCs present in environmental media as a result of historic releases at the Site pose unacceptable risks to human health under site-specific exposure conditions; and, to provide information to support decisions concerning the need for further evaluation or action at the Site, based upon current and reasonably anticipated future land use.

The risk assessment supports the following conclusions:

- Areas of visible elemental mercury contamination could not be quantitatively evaluated. For the purposes of this baseline risk assessment, areas with visible elemental mercury were assumed to present an unacceptable risk for future commercial/industrial, site-specific workers, and construction/utility workers based on potential direct contact and vapor intrusion pathways. Risks attributed to these areas are based on current Site conditions (i.e., unremediated conditions).

- For current exposure conditions, the Site is unoccupied and not used for any operational purposes. Moreover, the Site is within the Tremley Point industrial area with a majority of the Site surrounded by perimeter fencing and secured gates. Thus, exposure to soil under current Site conditions is considered an incomplete exposure pathway. Likewise, there are no occupied buildings or complete indoor air exposure pathways on-site. Currently, groundwater at the Site is not used for potable or other purposes.

- Future use potential cumulative cancer risks resulting from exposure to soil via ingestion, dermal contact, and inhalation of vapors and particulates were within USEPA acceptable risk levels for future site-specific workers, construction/utility workers, and future commercial/industrial workers under a CTE exposure scenario; however, future use potential cumulative cancer risks resulting from exposure to soil exceeded USEPA acceptable risk levels for future commercial/industrial workers under an RME exposure scenario. Hexachlorobenzene, carcinogenic PAHs, furans, PCBs, and arsenic made the most significant contribution to overall cancer risk.

- Future use potential non-cancer risk estimates for direct exposure to soil via ingestion, dermal contact, and inhalation of vapors and particulates exceeded the benchmark value of 1 for future commercial/industrial, site-specific, and construction/utility workers under both RME and CTE exposure scenarios. The inhalation of elemental mercury and the ingestion of inorganic mercury made the most significant contributions to overall non-cancer risk.

- Future use of groundwater is unlikely due to the salinity and because two New Jersey regulations prohibit the installation of wells. However, because the overburden water-

bearing zone is classified as Class II-A (potable), commercial/industrial worker ingestion of groundwater was quantitatively assessed to provide risk managers with information needed to evaluate the impact of any future changes in groundwater use at the Site. Cancer risks exceeded USEPA acceptable risk levels and non-cancer risks exceeded the benchmark value of 1 for this hypothetical potable use scenario.

- Future construction/utility worker potential cumulative cancer risks resulting from exposure to groundwater via dermal contact were within USEPA acceptable risk levels; however, cumulative non-cancer risks exceeded the benchmark value of 1 for this receptor-exposure scenario. The groundwater ingestion and inhalation exposure pathways were not quantitative; however, the dermal evaluation is sufficient to conclude that there is a potential for unacceptable risks (primarily non-cancer risks) associated with construction/utility worker exposure to groundwater.
- Based on the Adult Lead Model for future, concentrations of lead in soil are not expected to result in adverse health effects to future commercial/industrial worker or site-specific workers exposed to surface soil, future construction/utility workers exposed to mixed soil, of trespassers exposed to sediment/bank soil in South Branch Creek.
- Soil vapor containing mercury and VOCs may volatize into buildings that may be constructed at the Site in the future. Under future use conditions, indoor air exposure pathways may be present with concentrations of mercury and VOCs that exceed health based criteria for industrial/commercial receptors. Risks are driven by exposure to elemental mercury and to a lesser extent by hexachlorobutadiene and chloroform.
- Although tidal influence and a lack of attractive nuisances generally preclude human exposure to South Branch Creek via Arthur Kill, trespassers may come into contact with COPCs in sediment/bank soils in South Branch Creek. Potential cancer and non-cancer risks estimates for current/future adolescent trespassers exposed to sediment in South Branch Creek were within USEPA acceptable risk levels.

In summary, this risk assessment shows that direct exposure to soil by future commercial/industrial worker, site-specific workers, and construction/utility workers may result in adverse non-cancer effects; exposure to soil by future commercial/industrial workers may also result in adverse cancer effects. Dermal contact with groundwater by construction/utility workers has the potential to result in adverse non-cancer effects. Potential non-cancer hazards in soil and soil vapor were driven by mercury; potential non-cancer hazards in groundwater were driven by furans and manganese. With the exception of future commercial/industrial exposure to soil, estimated excess cancer risks for these scenarios were within the USEPA risk range of 1.0×10^{-6} to 1.0×10^{-4}. No unacceptable cancer or non-cancer risks were identified for current/future trespassers exposed to sediment/bank soil in South Branch Creek. Hypothetical use of groundwater for potable purposes was also evaluated to support remedial decision-making

and risk management; the HHRA indicated future potable use of groundwater by commercial/industrial workers may result in adverse cancer and non-cancer effects.

Several of the chemicals that contributed to the risk estimates are believed to be associated with the fill present at the Site or are found in regional soils. These chemicals include the metals such as arsenic and dioxin/furan compounds. Other chemicals such as hexachlorobutadiene and VOCs are found in elevated concentrations in only a few locations indicating that risks associated with these compounds are localized in nature.

As stated previously, the risks presented herein are considered conservative as they are based on current Site conditions (i.e., unremediated conditions). However, the baseline risks will be considered in the remedial planning for the Site during the feasibility study phase of the project.

9. REFERENCES

Anderson, Henry R., 1968. Geology and Groundwater Resources of the Rahway Area, New Jersey. New Jersey Department of Conservation and Economical Development, Special Report 27.

Bloom, NS, Preus, EM, Katon, J, and Hiltner, M. 2003. Selective Extractions to Assess the Biogeochemically Relevant Fractionation of Inorganic Mercury in Sediments and Soils. *Analytical Chimica Acta*, 479:233-248.

Brown and Caldwell. 2006. Interim Ecological Risk Assessment Problem Formulation. Revised October.

Brown and Caldwell. 2013. Final Remedial Investigation Report. LCP Chemicals, Inc. Superfund Site, Linden, New Jersey. July.

Brown and Caldwell. 2008. Request for Class III-B Aquifer Designation, LCP Chemicals, Inc. Superfund Site and IES Linden Site, Linden, New Jersey. April.

Eder. 1993. Eder Associates Description of Current Conditions. RCRA Facility Investigation Task I, LCP Chemical – New Jersey, Inc., Linden, NJ. September.

IT Corporation. 1988. Letter Report to Union Carbide Corporation, RE: Linden Plant No. 3 Compressor Cleaning. April 22.

James, RC and Saranko, CJ. 2000. Carcinogenesis. In: Principles of Toxicology: Environmental and Industrial Applications, Second Edition. (Williams, P.L., James, R.C. and Roberts, S.M., eds.), New York: John Wiley & Sons.

Johnson, PC and RA Ettinger. 1991. Heuristic model for predicting the intrusion rate of contaminant vapors into buildings. *Environ. Sci. Technology*, 25:1445-1452.

Klassan, CD, ed. 2001. Casarett and Doull's Toxicology – The Basic Science of Poisons, 6th Edition. McGraw-Hill, New York.

NJDEP (New Jersey Department of Environmental Protection). 1999. Soil Cleanup Criteria. Site Remediation Program. Revised May 12.

NJDEP. 2002. Mercury Task Force, Vol II Impact of Mercury in New Jersey. January.

NJDEP. 2003. Ambient Levels of Metals in New Jersey Soils. Division of Science Research & Technology, Paul Sanders. May.

NJDEP. 2005. Vapor Intrusion Guidance. Site Remediation Program. October.

New Jersey Geologic Survey. 2005. Survey of Historic Fill for New Jersey.

NJDOT (New Jersey Department of Transportation). 2008. NJ Transit Proposed Transportation Capital Program Fiscal Year 2009, Section 3. March 31.

Rappe, C, Glas B, Kjeller LO and Kulp SE. 1990. Levels of PCDDs and PCDFs in Products and Effluent from the Swedish Pulp and Paper Industry and Chloralkalai Process. *Chemosphere*, Vol. 20, Nos.10-12, pp 1701-1706.

USEPA (United States Environmental Protection Agency). 1988. Guidelines for Carcinogen Risk Assessment. EPA Risk Assessment Forum, Washington, DC. EPA/630/R-00/004. September.

USEPA. .1989. Risk Assessment Guidance for Superfund (RAGS): Volume 1, Human Health Evaluation Manual (Part A), Interim Final. Office of Emergency and Remedial Response, Washington, DC. EPA/540/1-89/002. December.

USEPA. 1991. RAGS: Volume I, Human Health Evaluation Manual (Supplemental Guidance), Standard Default Exposure Factors – Interim Final, OSWER Directive 9285.6-03. March.

USEPA. 1993. Region 3, Risk Assessment: Technical Guidance Manual – Selecting Exposure Routes and Contaminants of Concern by Risk-Based Screening. January.

USEPA. 1996a. Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil. Washington. DC.

USEPA. 1996b. Soil Screening Guidance: User's Guide. Office of Solid Waste and Emergency Response, Washington, DC. EPA/540/R-95/128. July.

USEPA. 1997. Exposure Factors Handbook: Volumes I-III. Office of Research and Development, National Center for Environmental Assessment, Washington, DC. EPA/600/P-95/002Fa.

USEPA. 2001. RAGS: Volume I, Human Health Evaluation Manual (Part D), Final. Office of Emergency and Remedial Response, Washington, DC. Publication number 9285.7-47. December.

USEPA. 2002 Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Solid Waste and Emergency Response, Washington, DC. OSWER 9355.4-24. December.

USEPA. 2004a. RAGS: Human Health Evaluation Manual (Part E), Supplemental Guidance for Dermal Risk Assessment, Final. EPA/540/R/99/005. July.

USEPA. 2004b. User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings. Office of Emergency and Remedial Response. Revised February 22.

USEPA. 2005. Guidelines for Carcinogen Risk Assessment. EPA Risk Assessment Forum, Washington, DC. EPA/630/P-03/001F. March.

USEPA. 2009. ProUCL Version 4.00.04 User Guide (Draft). Office of Research and Development, Washington, DC. EPA/600/R-07/038. February.

USEPA. 2010. Regions 3, 6, and 9, Regional Screening Levels for Chemical Contaminants at Superfund Sites. November.

USGS (United States Geological Survey). 2000. Mercury in the Environment, Fact Sheet 146-00 (October 2000). Retrieved 18-Feb-2008, from http://www.usgs.gov /themes/factsheet /146-00/index.html.

USGS. 2008. National Geochemical Survey by County. Accessed online, August 25, 2008. http://tin.er.usgs.gov/geochem/doc/averages/countydata.htm.

URS. 2000. Work Plan, Remedial Investigation and Feasibility Study. October 6.

TCC (The Chazen Companies). 2007. Ecological Assessment Report – LCP Chemicals Inc. Superfund Site, City of Linden, Union County, New Jersey. August 23.

WHO (World Health Organization). 2003. Elemental Mercury and Inorganic Mercury Compounds: Human health Aspects. Inter-Organization Programme for the Sound Management of Chemicals, Geneva.

WHO. 2005. Project for the Re-evaluation of Human and Mammalian Toxic Equivalency Factors (TEFs) for Dioxins and Dioxin-Like Compounds. Inter-Organization Programme for the Sound Management of Chemicals, Geneva. May.

TABLES

TABLE OF CONTENTS
FINAL HUMAN HEALTH RISK ASSESSMENT - RAGS PART D TABLES
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Table 0:	Site Risk Assessment Identification Information
Table 1:	Selection of Exposure Pathways
Table 2.1:	Occurrence, Distribution, and Selection of Chemicals of Potential Concern, Surface Soil
Table 2.2:	Occurrence, Distribution, and Selection of Chemicals of Potential Concern, Subsurface Soil
Table 2.3:	Occurrence, Distribution, and Selection of Chemicals of Potential Concern, Overburden Groundwater
Table 2.4:	Occurrence, Distribution, and Selection of Chemicals of Potential Concern, South Branch Creek Sediment/Bank Soil
Table 3.1:	Exposure Point Concentration Summary, Surface Soil
Table 3.2:	Exposure Point Concentration Summary, Subsurface Soil
Table 3.3:	Exposure Point Concentration Summary, Overburden Groundwater
Table 3.4:	Exposure Point Concentration Summary, South Branch Creek Sediment/Bank Soil
Table 4.1a:	Values Used for Daily Intake Calculations, Future Commercial/Industrial Worker - Surface Soil
Table 4.1b:	Values Used for Daily Intake Calculations, Future Commercial/Industrial Worker - Groundwater
Table 4.2:	Values Used for Daily Intake Calculations, Future Site-Specific Worker - Surface Soil
Table 4.3a:	Values Used for Daily Intake Calculations, Future Construction/Utility Worker - Mixed Soil
Table 4.3b:	Values Used for Daily Intake Calculations, Future Construction/Utility Worker - Shallow (Overburden) Groundwater
Table 4.4:	Values Used for Daily Intake Calculations, Current/Future Trespasser - South Branch Creek Sediment/Bank Soil
Table 5.1:	Non-Cancer Toxicity Data - Oral/Dermal
Table 5.2:	Non-Cancer Toxicity Data - Inhalation
Table 6.1:	Cancer Toxicity Data - Oral/Dermal
Table 6.2:	Cancer Toxicity Data - Inhalation
Table 7.1:	Calculation of Chemical Cancer Risks and Non-Cancer Hazards, Future Commercial/Industrial Worker - Surface Soil and Overburden Groundwater
Table 7.2:	Calculation of Chemical Cancer Risks and Non-Cancer Hazards, Future Site-Specific Worker - Surface Soil
Table 7.3:	Calculation of Chemical Cancer Risks and Non-Cancer Hazards, Future Construction/Utility Worker - Mixed Soil and Shallow (Overburden) Groundwater
Table 7.4:	Calculation of Chemical Cancer Risks and Non-Cancer Hazards, Current/Future Trespasser - South Branch Creek Sediment/Bank Soil
Table 9.1:	Summary of Receptor Risks and Hazards for COPCs, Future Commercial/Industrial Worker - Surface Soil and Overburden Groundwater
Table 9.2:	Summary of Receptor Risks and Hazards for COPCs, Future Site-Specific Worker - Surface Soil
Table 9.3:	Summary of Receptor Risks and Hazards for COPCs, Future Construction/Utility Worker - Mixed Soil and Shallow (Overburden) Groundwater
Table 9.4:	Summary of Receptor Risks and Hazards for COCPs, Current/Future Trespasser - South Branch Creek Sediment/Bank Soil
Table 10.1:	Risk Summary, Future Commercial/Industrial Worker - Surface Soil and Overburden Groundwater
Table 10.2:	Risk Summary, Future Site-Specific Worker - Surface Soil
Table 10.3:	Risk Summary, Future Construction/Utility Worker - Mixed Soil and Shallow (Overburden) Groundwater
Table 10.4:	Risk Summary, Current/Future Trespasser - South Branch Creek Sediment/Bank Soil

TABLE 0
SITE RISK ASSESSMENT IDENTIFICATION INFORMATION
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Site Name/OU:	LCP Chemicals, Inc. Superfund Site
Region:	USEPA Region II
EPA ID Number:	NJD079303020
State:	New Jersey
Status:	
Federal Facility (Y/N):	N
EPA Project Manager:	Jonathan Gorin [Gorin.Jonathan@epamail.epa.gov]
EPA Risk Assessor:	Michael Sivak [Sivak.Michael@epamail.epa.gov]
Prepared by (Organization):	Geosyntec Consultants, Inc. [Ktolson@Geosyntec.com or MDeFlaun@Geosyntec.com]
Prepared for (Organization):	ISP Environmental Services, Inc. [dmcnichol@ispcorp.com]
Document Title:	Final Human Health Risk Assessment
Document Date:	20 May 2011
Probabilistic Risk Assessment (Y/N):	No
Comments:	The HHRA is a companion document to the Remedial Investigation (RI) Report prepared and submitted to the U.S. Environmental Protection Agency (USEPA) by Brown and Caldwell. Portions of the RI Report relevant to the evaluation of human health risks are summarized in the HHRA; however, the full context of site-specific information requires the HHRA to be evaluated in light of the complete RI Report. Therefore, the reader should refer to the RI Report for a more comprehensive presentation and analysis of the Phase I (2001-2002) and Phase II (2006-2007) RI data.

TABLE 1
SELECTION OF EXPOSURE PATHWAYS
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe	Medium	Exposure Medium	Exposure Point	Receptor Population	Receptor Age	Exposure Route	Type of Analysis	Rationale for Selection of Exposure Pathway
Future	Surface Soil (1)	Surface Soil	Surface Soil	Commercial/ Industrial Worker	Adult	Ingestion	Quant (2)	Commercial/industrial workers may incidentally ingest surface soil.
						Dermal Contact		Commercial/industrial workers may have exposed skin come into contact with surface soil.
		Outdoor Air	Particulates and Vapors (P&V) in Outdoor Air	Commercial/ Industrial Worker	Adult	Inhalation	Quant (2)	Commercial/industrial workers may inhale particulates in fugitive dust generated from surface soil or inhale vapors that migrate from surface soil to air.
	Surface Soil (1)	Surface Soil	Surface Soil	Site-Specific Worker (3)	Adult	Ingestion	Quant (2)	Site-specific workers may incidentally ingest surface soil.
						Dermal Contact		Site-specific workers may have exposed skin come into contact with surface soil.
		Outdoor Air	P&V in Outdoor Air	Site-Specific Worker (3)	Adult	Inhalation	Quant (2)	Site-specific workers may inhale particulates in fugitive dust generated from surface soil or inhale vapors that migrate from surface soil to air.
	Surface Soil (4)	Surface Soil	Surface Soil	Construction/ Utility Worker	Adult	Ingestion	Quant (2)	Construction/utility workers may incidentally ingest surface soil.
						Dermal Contact		Construction/utility workers may have exposed skin come into contact with surface soil.
		Outdoor Air	P&V in Outdoor Air	Construction/ Utility Worker	Adult	Inhalation	Quant (2)	Construction/utility workers may inhale particulates in fugitive dust generated from surface soil or inhale vapors that migrate from surface soil to air.
	Subsurface Soil (4)	Subsurface Soil	Subsurface Soil	Construction/ Utility Worker	Adult	Ingestion	Quant (2)	Construction/utility workers may incidentally ingest subsurface soil.
						Dermal Contact		Construction/utility workers may have exposed skin come into contact with subsurface soil.
		Outdoor Air	P&V in Outdoor Air	Construction/ Utility Worker	Adult	Inhalation	Quant (2)	Construction/utility workers may inhale particulates in fugitive dust generated from subsurface soil or inhale vapors that migrate from subsurface soil to air.
Future	Groundwater	Overburden Groundwater (5)	Overburden Groundwater	Commercial/ Industrial Worker	Adult	Ingestion	Quant	Future commercial/industrial worker ingestion of groundwater was quantitatively evaluated to support remedial decisions-making and risk management processes.
		Shallow Groundwater (6)	Shallow Groundwater	Construction/ Utility Worker	Adult	Ingestion	Qual	Construction/utility worker incidental ingestion of shallow (overburden) groundwater while conducting construction/excavation activities near the water table is likely to be relatively insignificant in comparison to dermal contact with groundwater; therefore, this pathway is qualitatively evaluated as part of the uncertainty analysis.
		Shallow Groundwater (6)	Shallow Groundwater	Construction/ Utility Worker	Adult	Dermal Contact	Quant	Construction/utility workers may have exposed skin come into contact with shallow (overburden) groundwater while conducting construction/excavation activities near the water table.
		Shallow Groundwater (6)	Vapors in Outdoor Air	Construction/ Utility Worker	Adult	Inhalation	Qual	Construction/utility worker inhalation of vapors from shallow (overburden) groundwater while conducting construction/excavation activities near the water table is likely to be relatively insignificant in comparison to dermal contact with groundwater; therefore this pathway is qualitatively evaluated as part of the uncertainty analysis. Areas of the Site containing visible elemental mercury are assumed to present an unacceptable risk.
Future	Surface Soil (1)	Surface Soil	Surface Soil	Adolescent Trespasser	Adult	Ingestion	Qual	Under future land use conditions, the likelihood for trespassing may increase if current barriers to access (e.g., fencing) are removed. Thus, future trespassers may incidentally ingest, have dermal contact with, or inhale particulates and vapors from soil. However, because exposure is likely to be infrequent and remedial actions protective of worker will also be protective of trespassers, this receptor-exposure scenario is qualitatively evaluated.
						Dermal Contact		
		Outdoor Air	P&V in Outdoor Air	Adolescent Trespasser	Adult	Inhalation	Qual	
Current/Future	Surficial Sediment in/along South	Surficial Sediment in /along SBC	Surficial Sediment in/along SBC	Adolescent Trespasser	Ages 7-16	Ingestion	Quant	Trespassers may incidentally ingest sediment.
						Dermal Contact		Trespassers may have exposed skin come into contact with sediment.
Current/Future	Surface Water in South Branch Creek	Surface Water in SBC	Surface Water in SBC	Adolescent Trespasser	Ages 7-16	Ingestion	Qual	Trespassers may incidentally ingest surface water; however, this pathway is evaluated qualitatively as part of the uncertainty analysis as trespasser exposure to surface water is likely to be insignificant relative to sediment exposure.
						Dermal Contact		Trespassers may have exposed skin come into contact with surface water; however, this pathway is evaluated qualitatively as part of the uncertainty analysis as trespasser exposure to surface water is likely to be insignificant relative to sediment exposure.
Future	Subsurface Soil Vapors (8)	Subsurface Soil Vapors	Vapors in Indoor Air	Indoor Worker	Adult	Inhalation	Quant (2)	Indoor workers may inhale vapors that migrate from the subsurface to indoor air via diffusion, advection, or as a result of heating and ventilation systems.

Notes:

(1) Surface soil includes all soil from the interval 0 to 2 feet below ground surface (ft bgs) not associated with South Branch Creek (SBC).

(2) Areas of visible elemental mercury contamination could not be quantitatively evaluated. For the purposes of this baseline risk assessment, areas with visible elemental mercury were assumed to present an unacceptable risk based on potential direct contact and vapor intrusion pathways. Risks attributed to these areas are based on current (i.e., unremediated) Site conditions.

(3) In addition to the full-time commercial/industrial worker, a reduced-frequency commercial/industrial ("site-specific") worker was also evaluated. Although this scenario is hypothetical, and it is acknowledged that such future land use would require institutional controls, the evaluation of this receptor supports remedial decision–making and risk management process.

(4) Subsurface soil includes all soil from the interval 2 to 10 ft bgs not associated with SBC.

(5) The bedrock water-bearing zone at the Site has formally been reclassified as Class III-B (non-potable). Future use of overburden groundwater for potable purposes is also unlikely given the salinity and New Jersey regulations. However, the overburden water-bearing zone remains classified as Class II-A (potable). Therefore, future commercial/industrial worker ingestion of overburden groundwater was quantitatively evaluated to provide risk managers with information needed to evaluate the impact of any future changes in groundwater use at the Site.

(6) Future construction/utility workers are assumed to be exposed to shallow groundwater while conducting intrusive activities at the Site. For the purposes of the risk assessment, "shallow" groundwater was assumed to include all overburden groundwater.

(7) Sediment includes all solid media (sediment, bank soil, marsh soil) associated with SBC collected from the interval 0 to 0.5 ft bgs.

(8) Because elemental mercury (which is expected to be the primary risk driver for indoor air) is not soluble, modeling risks from groundwater to indoor air is inappropriate as it would likely result in a gross underestimation of risks from vapor intrusion. Rather, exposure to indoor air was evaluated using soil vapor data and the Johnson and Ettinger (J&E; 1991) vapor intrusion model.

(9) With the exception of subsurface soil vapors, risk associated with environmental media at the Site are presented herein in tabular form in accordance with the standard tables of RAGS Part D. Risks associated with exposure to soil vapors are presented in Attachment E.

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SURFACE SOIL (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration [1] (Qualifier)	Maximum Concentration [1] (Qualifier)	Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration [2]	Screening Value (Basis) [3]	Alternate Screening Values [4]	COPC	Rationale [5]
Metal	7429-90-5	Aluminum	1,120	27,700	mg/kg	LHP-128	231 / 231	n/a	27,700	7,700 n	--	Yes	ASL
Metal	7440-36-0	Antimony	1.2 J	212 J	mg/kg	LB-101	45 / 234	0.54 - 5.7	212	3.1 n	14	Yes	ASL
Metal	7440-38-2	Arsenic	1.1	335 J	mg/kg	LHP-105	230 / 235	1.0 - 2.4	335	0.39 c	20	Yes	ASL
Metal	7440-39-3	Barium	26.8	10,500	mg/kg	LP-5	225 / 227	21 - 22	10,500	1,500 n	700	Yes	ASL
Metal	7440-41-7	Beryllium	0.56	53.3 J	mg/kg	LB-101	124 / 235	0.011 - 2.3	53.3	16 n	2.0	Yes	ASL
Metal	7440-43-9	Cadmium	0.58	87.5 J	mg/kg	DC-SED3	158 / 235	0.056 - 14	87.5	7.0 n	39	Yes	ASL
Metal	7440-70-2	Calcium	597 J	105,000	mg/kg	SILO-B2	220 / 228	540 - 620	105,000	NSC	--	No	NUT
Metal	7440-47-3	Chromium [6]	4.7	344 J	mg/kg	DC-SED3	235 / 235	n/a	344	12,000 n	120,000	No	BSL
Metal	18540-29-9	Chromium, Hexavalent	1.3	7.3 J	mg/kg	LHP-108	9 / 24	0.26 - 1.3	7.3	0.29 c	240	Yes	ASL
Metal	7440-48-4	Cobalt	5.6	961	mg/kg	LHP-128	218 / 235	5.4 - 6.1	961	2.3 n	--	Yes	ASL
Metal	7440-50-8	Copper	6.6	18,000	mg/kg	DC-SED2	226 / 226	n/a	18,000	310 n	600	Yes	ASL
Metal	7439-89-6	Iron	2,020	374,000	mg/kg	DC-SS1	235 / 235	n/a	374,000	5,500 n	--	Yes	ASL
Metal	7439-92-1	Lead	3.2	15,450	mg/kg	LHP-128	235 / 235	n/a	15,450	400 ++	400	Yes	ASL
Metal	7439-95-4	Magnesium	692	25,500	mg/kg	230-B10	225 / 231	540 - 580	25,500	NSC	--	No	NUT
Metal	7439-96-5	Manganese	7.1	4,810 J	mg/kg	DC-SED3	235 / 235	n/a	4,810	180 n	--	Yes	ASL
Metal	7439-97-6	Mercury [6]	0.041 J	7,870	mg/kg	SS-08-10	234 / 237	0.032 - 0.035	7,870	0.56 n	14	Yes	ASL
Metal	22967-92-6	Methyl Mercury	0.0000309	0.125	mg/kg	230-B101	11 / 11	n/a	0.125	0.78 n	--	No	BSL
Metal	7440-02-0	Nickel	5.7	1,820	mg/kg	150K-1	232 / 235	4.3 - 4.5	1,820	150 n	250	Yes	ASL
Metal	7440-09-7	Potassium	517	5,900	mg/kg	5K-B1	175 / 227	500 - 1,900	5,900	NSC	--	No	NUT
Metal	7782-49-2	Selenium	1	21.1	mg/kg	LB-101	60 / 235	0.66 - 53	21.1	39 n	63	No	BSL
Metal	7440-22-4	Silver	1.1	53.2 J	mg/kg	DC-SED3	52 / 235	0.079 - 4.6	53.2	39 n	110	Yes	ASL
Metal	7440-23-5	Sodium	561	7,980 J	mg/kg	HB-102A	139 / 226	49 - 26,000	7,980	NSC	--	No	NUT
Metal	7440-62-2	Vanadium	10	249	mg/kg	TLS-6	232 / 235	27 - 140	249	0.55 n	370	Yes	ASL
Metal	7440-66-6	Zinc	6.5	114,000	mg/kg	LHP-127	211 / 211	n/a	114,000	2,300 n	1,500	Yes	ASL
Inorganic	57-12-5	Cyanide	0.26	25.9 J	mg/kg	240-1	9 / 235	0.012 - 4.1	25.9	160 n	1,100	No	BSL
PCB	NA	Total PCBs [7]	0.0115	28.8	mg/kg	230-B4	235 / 235	n/a	28.8	0.24 c	0.49	Yes	ASL
PEST	319-84-6	Alpha-BHC	0.0056 J	0.0148	mg/kg	SPR-4C	2 / 235	0.00025 - 0.20	0.0148	0.077 c	--	No	BSL
PEST	5103-71-9	Alpha-Chlordane [6]	0.0013	0.0232 J	mg/kg	WWT-3	10 / 235	0.00037 - 0.39	0.0232	1.6 c	--	No	BSL
PEST	319-85-7	Beta-BHC	0.0078	0.144 J	mg/kg	DC-SS18	11 / 235	0.00030 - 0.40	0.144	0.27 c	--	No	BSL
PEST	319-86-8	Bhc, Delta Isomer [6]	0.0122	0.0122	mg/kg	SPR-4C	1 / 235	0.00051 - 0.20	0.0122	0.077 c	--	No	BSL
PEST	58-89-9	Bhc, Gamma Isomer	0.0067	0.0207 J	mg/kg	ADS-4	3 / 235	0.00028 - 0.20	0.0207	0.52 c	0.52	No	BSL
PEST	60-57-1	Dieldrin	0.0009	0.0881	mg/kg	SPR-4C	10 / 235	0.00035 - 0.20	0.0881	0.03 c	0.042	No	IFD
PEST	33213-65-9	Endosulfan II [6]	0.0012	0.0023	mg/kg	ADS-1	2 / 234	0.00036 - 0.39	0.0023	37 n	340	No	BSL
PEST	1031-07-8	Endosulfan Sulfate [6]	0.0251 J	0.0251 J	mg/kg	TLS-7	1 / 235	0.00037 - 0.39	0.0251	37 n	340	No	BSL
PEST	53494-70-5	Endrin Ketone [6]	0.128 J	0.128 J	mg/kg	TLS-7	1 / 235	0.00038 - 0.39	0.128	1.8 n	17	No	BSL
PEST	5103-74-2	Gamma-Chlordane [6]	0.00074	0.0193	mg/kg	PCA-3	12 / 235	0.00037 - 0.39	0.0193	1.6 c	--	No	BSL
PEST	1024-57-3	Heptachlor Epoxide	0.0019 J	0.0115 J	mg/kg	TLS-7	2 / 235	0.00038 - 0.20	0.0115	0.053 c	--	No	BSL
PEST	72-43-5	Methoxychlor	0.0108	0.583 J	mg/kg	RR-11	10 / 235	0.00046 - 0.79	0.583	31 n	280	No	BSL
PEST	72-54-8	P,P'-DDD	0.0016 J	0.184 J	mg/kg	SPR-4C	37 / 235	0.00033 - 0.39	0.184	2 c	3.0	No	BSL
PEST	72-55-9	P,P'-DDE	0.0017	0.289 J	mg/kg	231-B3	54 / 235	0.00034 - 0.21	0.289	1.4 c	2.0	No	BSL
PEST	50-29-3	P,P'-DDT	0.0026	1.46 J	mg/kg	231-B9	77 / 235	0.00043 - 0.39	1.46	1.7 c	2.0	No	BSL
Dioxin	NA	Dioxin 2,3,7,8-TCDD TEQ [8]	6.2E-07	2.1E-05	mg/kg	231-B1	14 / 14	n/a	2.1E-05	4.50E-06 c	--	Yes	ASL
Furan	NA	Furan 2,3,7,8-TCDD TEQ [8]	2.0E-07	8.8E-04	mg/kg	LP-16	14 / 14	n/a	8.8E-04	4.50E-06 c	--	Yes	ASL
SVOC	NA	Benzo(a)pyrene TEQ [9]	0.0179	101	mg/kg	SPR-5	235 / 235	n/a	101	0.015 c	0.66	Yes	ASL
SVOC	83-32-9	Acenaphthene	0.0201 J	22.4	mg/kg	DC-SS11	56 / 235	0.017 - 0.78	22.4	340 n	3,400	No	BSL
SVOC	208-96-8	Acenaphthylene [6]	0.0186 J	0.552	mg/kg	DC-SS11	40 / 235	0.014 - 2.1	0.552	340 n	--	No	BSL
SVOC	98-86-2	Acetophenone	0.146 J	0.146 J	mg/kg	TES-3	1 / 45	0.022 - 0.26	0.146	780 n	--	No	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SURFACE SOIL (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration [1] (Qualifier)		Maximum Concentration [1] (Qualifier)		Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration [2]	Screening Value (Basis) [3]		Alternate Screening Values [4]	COPC	Rationale [5]
SVOC	120-12-7	Anthracene	0.0104	J	21.1		mg/kg	SPR-5	140 / 235	0.013 - 0.47	21.1	1,700	n	10,000	No	BSL
SVOC	191-24-2	Benzo(g,h,i)perylene [6]	0.019	J	26.4		mg/kg	SPR-5	117 / 234	0.019 - 0.47	26.4	170	n	--	No	BSL
SVOC	92-52-4	Biphenyl, 1,1'-	0.0301	J	0.0366	J	mg/kg	HB-102B	2 / 45	0.016 - 0.20	0.0366	390	n	--	No	BSL
SVOC	117-81-7	Bis(2-Ethylhexyl) Phthalate	0.0378	J	129	J	mg/kg	DC-SED1	169 / 235	0.044 - 0.52	129	35	c	49	Yes	ASL
SVOC	85-68-7	Butyl Benzyl Phthalate	0.0405	J	3.57		mg/kg	231-B9	21 / 235	0.026 - 2.1	3.57	260	c	1,100	No	BSL
SVOC	86-74-8	Carbazole [10]	0.0158	J	5.62		mg/kg	TLN-3	67 / 235	0.014 - 0.47	5.62	24	c	--	No	BSL
SVOC	106-47-8	Chloroaniline, p-	0.112	J	0.183	J	mg/kg	5K-B5	2 / 235	0.021 - 5.2	0.183	2.4	c	230	No	BSL
SVOC	91-58-7	Chloronaphthalene, 2-	0.0243	J	76.8		mg/kg	5K-B5	47 / 235	0.048 - 2.1	76.8	630	n	--	No	BSL
SVOC	132-64-9	Dibenzofuran	0.018	J	14.2		mg/kg	TLN-3	64 / 235	0.016 - 0.78	14.2	7.8	n	--	Yes	ASL
SVOC	95-50-1	Dichlorobenzene, 1,2-	0.0208	J	2.13		mg/kg	DC-SS11	55 / 235	0.016 - 2.1	2.13	190	n	5,100	No	BSL
SVOC	541-73-1	Dichlorobenzene, 1,3-	0.0227	J	3.27		mg/kg	DC-B12	17 / 235	0.020 - 2.1	3.27	NSC		5,100	No	BSL2
SVOC	106-46-7	Dichlorobenzene, 1,4-	0.0224	J	4.17		mg/kg	DC-SS11	25 / 235	0.015 - 2.1	4.17	2.4	c	570	Yes	ASL
SVOC	84-66-2	Diethyl Phthalate	0.0558	J	0.0558	J	mg/kg	BT-B2	1 / 235	0.015 - 2.1	0.0558	4,900	n	10,000	No	BSL
SVOC	131-11-3	Dimethyl Phthalate	0.043	J	4.34		mg/kg	TES-3	36 / 235	0.015 - 2.1	4.34	NSC		10,000	No	BSL2
SVOC	84-74-2	Di-N-Butyl Phthalate	0.0404	J	23		mg/kg	BT-B2	29 / 235	0.022 - 2.1	23	610	n	5,700	No	BSL
SVOC	121-14-2	Dinitrotoluene, 2,4-	0.0857		0.0857		mg/kg	230-B7	1 / 235	0.040 - 2.1	0.0857	1.6	c	1.0	No	BSL
SVOC	117-84-0	Di-N-Octyl Phthalate	0.041	J	0.041	J	mg/kg	LHP-128	1 / 231	0.029 - 2.1	0.041	NSC		1,100	No	BSL2
SVOC	206-44-0	Fluoranthene	0.0172	J	116		mg/kg	SPR-5	199 / 235	0.012 - 0.46	116	230	n	2,300	No	BSL
SVOC	86-73-7	Fluorene	0.0182	J	17.3		mg/kg	DC-SS11	57 / 235	0.014 - 0.78	17.3	230	n	2,300	No	BSL
SVOC	118-74-1	Hexachlorobenzene	0.0238	J	1,440		mg/kg	231-B13	129 / 235	0.020 - 2.1	1,440	0.3	c	0.66	Yes	ASL
SVOC	87-68-3	Hexachlorobutadiene	0.0256	J	95.9		mg/kg	231-B2	40 / 235	0.022 - 2.1	95.9	6.2	c	1.0	Yes	ASL
SVOC	67-72-1	Hexachloroethane	0.023	J	1.27		mg/kg	ADS-8	46 / 235	0.017 - 5.2	1.27	35	c	6.0	No	BSL
SVOC	91-57-6	Methylnaphthalene, 2-	0.0192	J	23.6		mg/kg	TLN-3	71 / 235	0.022 - 2.1	23.6	31	n	--	No	BSL
SVOC	91-20-3	Naphthalene	0.0181	J	51.2		mg/kg	DC-SS11	105 / 235	0.019 - 2.1	51.2	3.6	c	230	Yes	ASL
SVOC	100-01-6	Nitroaniline, 4-	0.648		0.648		mg/kg	LHP-105	1 / 235	0.024 - 5.2	0.648	24	c	--	No	BSL
SVOC	98-95-3	Nitrobenzene	0.0576	J	0.366		mg/kg	AB-2	3 / 235	0.024 - 2.1	0.366	4.8	c	28	No	BSL
SVOC	86-30-6	N-Nitrosodiphenylamine	0.0489	J	0.34		mg/kg	230-B7	2 / 235	0.014 - 5.2	0.34	99	c	140	No	BSL
SVOC	87-86-5	Pentachlorophenol	0.154	J	2.02	J	mg/kg	DC-SED1	8 / 235	0.038 - 21	2.02	0.89	c	6.0	No	IFD
SVOC	85-01-8	Phenanthrene [6]	0.0184	J	58.2		mg/kg	TLN-3	184 / 235	0.015 - 0.46	58.2	170	n	--	No	BSL
SVOC	129-00-0	Pyrene	0.0151	J	122		mg/kg	SPR-5	201 / 235	0.012 - 0.46	122	170	n	1,700	No	BSL
SVOC	120-82-1	Trichlorobenzene, 1,2,4-	0.0217	J	3.09		mg/kg	230-B5	84 / 235	0.015 - 2.1	3.09	22	c	68	No	BSL
SVOC	95-95-4	Trichlorophenol, 2,4,5-	0.105	J	0.105	J	mg/kg	AB-1	1 / 235	0.051 - 5.2	0.105	610	n	5,600	No	BSL
VOC	71-55-6	Trichloroethane, 1,1,1-	0.0074		1.11		mg/kg	TES-4	2 / 235	0.0034 - 0.64	1.11	870	n	210	No	BSL
VOC	75-34-3	Dichloroethane, 1,1-	0.0048	J	0.164	J	mg/kg	TES-4	5 / 235	0.0034 - 0.64	0.164	3.3	c	570	No	BSL
VOC	75-35-4	Dichloroethene, 1,1-	0.00067	J	0.0186		mg/kg	12K-B1	7 / 235	0.0034 - 0.64	0.0186	24	n	8.0	No	BSL
VOC	78-93-3	Butanone, 2- (MEK)	0.005		0.389	J	mg/kg	DC-SED3	38 / 235	0.0042 - 0.64	0.389	2,800	n	1,000	No	BSL
VOC	591-78-6	Hexanone, 2-	0.0063		0.0244	J	mg/kg	DC-SED3	2 / 235	0.0034 - 0.64	0.0244	21	n	--	No	BSL
VOC	108-10-1	4-Methyl-2-Pentanone (MIBK)	0.101	J	0.101	J	mg/kg	DC-SED3	1 / 235	0.0034 - 0.64	0.101	530	n	1,000	No	BSL
VOC	79-20-9	Acetic Acid, Methyl Ester	0.104	J	0.253	J	mg/kg	TES-2	2 / 45	0.061 - 0.22	0.253	7,800	n	--	No	BSL
VOC	67-64-1	Acetone	0.0194		2.94	J	mg/kg	DC-SED3	136 / 235	0.0034 - 2.6	2.94	6,100	n	1,000	No	BSL
VOC	100-52-7	Benzaldehyde	0.246	J	0.246	J	mg/kg	TES-3	1 / 45	0.037 - 0.45	0.246	780	n	--	No	BSL
VOC	71-43-2	Benzene	0.0009		18.9		mg/kg	SPR-4B	59 / 235	0.00067 - 0.25	18.9	1.1	c	3	Yes	ASL
VOC	75-15-0	Carbon Disulfide	0.0023	J	0.16	J	mg/kg	DC-SED3	35 / 235	0.0042 - 0.64	0.16	82	n	--	No	BSL
VOC	56-23-5	Carbon Tetrachloride	0.0164	J	0.0164	J	mg/kg	231-B7	1 / 235	0.0034 - 0.64	0.0164	0.61	c	2.0	No	BSL
VOC	108-90-7	Chlorobenzene	0.00075	J	0.157	J	mg/kg	LHP-113	21 / 235	0.0034 - 0.64	0.157	29	n	37	No	BSL
VOC	67-66-3	Chloroform	0.00092	J	7.22		mg/kg	HB-102B	61 / 235	0.0034 - 0.52	7.22	0.29	c	19	Yes	ASL
VOC	74-87-3	Chloromethane	0.0023	J	0.0023	J	mg/kg	ADS-12	1 / 235	0.0034 - 0.64	0.0023	12	n	520	No	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SURFACE SOIL (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration (1) (Qualifier)		Maximum Concentration (1) (Qualifier)		Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration (2)	Screening Value (Basis) (3)		Alternate Screening Values (4)	COPC	Rationale (5)
VOC	156-59-2	Cis-1,2-Dichloroethene	0.0012	J	6.54		mg/kg	12K-B1	17 / 235	0.0034 - 0.64	6.54	16	n	79	No	BSL
VOC	100-41-4	Ethylbenzene	0.0012		0.121		mg/kg	LHP-128	16 / 235	0.00067 - 0.64	0.121	5.4	c	1,000	No	BSL
VOC	98-82-8	Isopropylbenzene	0.0247	J	0.0377	J	mg/kg	LHP-121	2 / 45	0.020 - 0.072	0.0377	210	n	--	No	BSL
VOC	108-87-2	Methylcyclohexane (6)	0.0704	J	0.442		mg/kg	LHP-127	8 / 45	0.028 - 0.10	0.442	700	n	--	No	BSL
VOC	75-09-2	Methylene Chloride	0.0064	J	0.201	J	mg/kg	HB-102B	16 / 235	0.0034 - 0.64	0.201	11	c	49	No	BSL
VOC	100-42-5	Styrene	0.0026	J	0.0082		mg/kg	SPR-4B	2 / 235	0.0034 - 0.64	0.0082	630	n	23	No	BSL
VOC	1634-04-4	Tert-Butyl Methyl Ether	0.0705		0.0705		mg/kg	HB-102B	1 / 45	0.024 - 0.087	0.0705	43	c	--	No	BSL
VOC	127-18-4	Tetrachloroethylene (PCE)	0.00079	J	0.763		mg/kg	TLS-7	29 / 235	0.0042 - 0.52	0.763	0.55	c	4.0	Yes	ASL
VOC	108-88-3	Toluene	0.00088	J	0.533		mg/kg	LHP-128	30 / 235	0.00067 - 0.64	0.533	500	n	1,000	No	BSL
VOC	156-60-5	Trans-1,2-Dichloroethene	0.0014	J	0.226		mg/kg	230-B5	7 / 235	0.0034 - 0.64	0.226	15	n	1,000	No	BSL
VOC	79-01-6	Trichloroethylene (TCE)	0.00095	J	124		mg/kg	12K-B2	25 / 234	0.0034 - 0.64	124	2.8	c	23	Yes	ASL
VOC	75-01-4	Vinyl Chloride	0.0036	J	0.154		mg/kg	230-B5	10 / 235	0.0034 - 0.64	0.154	0.06	c	2.0	Yes	ASL
VOC	XYLMP	Xylene, M&P- (sum of isomers) (6)	0.0792	J	0.449		mg/kg	LHP-128	6 / 45	0.038 - 0.14	0.449	340	n	--	No	BSL
VOC	95-47-6	Xylene, O-	0.0398	J	0.186		mg/kg	LHP-121	6 / 45	0.021 - 0.077	0.186	380	n	--	No	BSL
VOC	1330-20-7	Xylenes, Mixed	0.0018	J	0.62		mg/kg	LHP-128	28 / 235	0.00088 - 0.64	0.62	63	n	410	No	BSL

Notes:
(1) Minimum/maximum detected concentration.
(2) Maximum detected concentration used as the screening concentration.
(3) Screening values are USEPA Regional Screening Levels (RSLs) for residential soil (updated November 2010) based on the following endpoints:
- c cancer endpoint and a target cancer risk of 1×10^{-6}
- n non-cancer endpoint and a target hazard quotient of 0.1
- ++ based on USEPA's Integrated Exposure Uptake Biokinetic (IEUBK) model.

(4) Alternate screening values are New Jersey Residential Direct Contact Soil Cleanup Criteria (NJRDCSCC), which are available on-line at http://www.nj.gov/dep/srp/guidance/scc/.
(5) Rationale Codes for selection or exclusion as COPC:

Selection:
- ASL Above screening criteria
- ASL2 Above NJRDCSCC in absence of screening criteria
- NSC No Screening Criteria

Exclusion:
- BSL Below screening criteria
- BSL2 Below NJRDCSCC in absence of screening criteria
- NUT Essential nutrient

(6) The following surrogate values were used for screening:
- total chromium uses chromium III as a surrogate (see Section 3.2 of the risk assessment)
- total mercury uses elemental mercury as a surrogate (see Section 3.2 of the risk assessment)
- alpha-chlordane and gamma-chlordane use chlordane as a surrogate
- delta-BHC uses alpha-BHC as a surrogate
- endosulfan II and endosulfan sulfate use endosulfan as a surrogate
- endrin ketone uses endrin as a surrogate
- acenaphthylene uses acenaphthene as a surrogate
- benzo(g,h,i)perylene and phenanthrene use pyrene as a surrogate
- methylcyclohexane uses cyclohexane as a surrogate
- m,p-xylene (sum of isomers) uses the more stringent of m- and p-xylene as a surrogate

(7) Aroclor results were summed and evaluated as Total PCBs using USEPA's "High Risk and Persistence" cancer potency estimates (see Section 3.2 of the risk assessment).
(8) PCDD or PCDF concentrations were converted to 2,3,7,8-TCDD equivalent concentrations using the WHO 2005 TEF multiplier (see Section 3.2 of the risk assessment).
(9) Carcinogenic PAH concentrations were converted to benzo(a)pyrene equivalent concentrations using USEPA default TEF multipliers (see Section 3.2 of the risk assessment).
(10) Screening value for carbazole obtained from the 2004 USEPA Region 9 Preliminary Remediation Goal (PRG) Tables.

Shading indicates a COPC

Definitions:
- PCB = Polychlorinated biphenyl
- PEST = Pesticide
- SVOC = Semivolatile organic compound
- VOC = Volatile organic compound
- J = Estimated value
- ft bgs = Feet below ground surface
- mg/kg = Milligrams per kilogram
- COPC = Chemical of potential concern

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SUBSURFACE SOIL (2 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration (1) (Qualifier)		Maximum Concentration (1) (Qualifier)		Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration (2)	Screening Value (Basis) (3)		Alternate Screening Values (4)	COPC	Rationale (5)
Metal	7429-90-5	Aluminum	452	J	27,700		mg/kg	TLS-4	75 / 75	n/a	27,700	7,700	n	--	Yes	ASL
Metal	7440-36-0	Antimony	1.5	J	318	J	mg/kg	LHP-104	18 / 83	0.53 - 3.2	318	3.1	n	14	Yes	ASL
Metal	7440-38-2	Arsenic	1.4		775	J	mg/kg	LHP-104	81 / 83	1.2 - 7.8	775	0.39	c	20	Yes	ASL
Metal	7440-39-3	Barium	32.9	J	7,990		mg/kg	DC-B12	80 / 81	26 - 26	7,990	1,500	n	700	Yes	ASL
Metal	7440-41-7	Beryllium	0.59		22.3	J	mg/kg	LHP-126	30 / 83	0.011 - 15	22.3	16	n	2	Yes	ASL
Metal	7440-43-9	Cadmium	0.63		22		mg/kg	230-B1	23 / 83	0.056 - 15	22	7	n	39	Yes	ASL
Metal	7440-70-2	Calcium	563		78,300		mg/kg	ESR-1	78 / 81	600 - 650	78,300	NSC		--	No	NUT
Metal	7440-47-3	Chromium (6)	6.35		7,250		mg/kg	231-B8	83 / 83	n/a	7,250	12,000	n	120,000	No	BSL
Metal	18540-29-9	Chromium, Hexavalent	1.1		1.6		mg/kg	LHP-126	2 / 6	0.26 - 1.4	1.6	0.29	c	240	Yes	ASL
Metal	7440-48-4	Cobalt	6.4		602		mg/kg	LHP-104	61 / 83	5.4 - 9.0	602	2.3	n	--	Yes	ASL
Metal	7440-50-8	Copper	5.6	J	7,300		mg/kg	LHP-104	79 / 79	n/a	7,300	310	n	600	Yes	ASL
Metal	7439-89-6	Iron	3,380		299,000	J	mg/kg	231-B6	83 / 83	n/a	299,000	5,500	n	--	Yes	ASL
Metal	7439-92-1	Lead	4.8		11,300		mg/kg	LHP-104	83 / 83	n/a	11,300	400	++	400	Yes	ASL
Metal	7439-95-4	Magnesium	822	J	10,500	J	mg/kg	5K-B5	76 / 83	550 - 900	10,500	NSC		--	No	NUT
Metal	7439-96-5	Manganese	13.5		2,050		mg/kg	HB-8A	82 / 82	n/a	2,050	180	n	--	Yes	ASL
Metal	7439-97-6	Mercury (6)	0.063		832	J	mg/kg	IB-3	76 / 77	0.036 - 0.036	832	0.56	n	14	Yes	ASL
Metal	22967-92-6	Methyl Mercury	0.000277		0.0697		mg/kg	MW-11D	3 / 3	n/a	0.0697	0.78	n	--	No	BSL
Metal	7440-02-0	Nickel	5		638	J	mg/kg	LHP-104	79 / 83	4.5 - 5.2	638	150	n	250	Yes	ASL
Metal	7440-09-7	Potassium	663	J	5,000	J	mg/kg	DC-B12	62 / 80	540 - 900	5,000	NSC		--	No	NUT
Metal	7782-49-2	Selenium	1.1		16.2		mg/kg	LHP-127	18 / 83	0.66 - 58	16.2	39	n	63	No	BSL
Metal	7440-22-4	Silver	2.2		3.9		mg/kg	231-B6	8 / 83	0.078 - 1.8	3.9	39	n	110	Yes	BSL/ASL*
Metal	7440-23-5	Sodium	628		26,700		mg/kg	HB-1A	52 / 80	49 - 29,000	26,700	NSC		--	No	NUT
Metal	7440-28-0	Thallium	27	J	27	J	mg/kg	LHP-126	1 / 83	0.35 - 31	27	NSC		2.0	No	IFD
Metal	7440-62-2	Vanadium	9.7		71.4		mg/kg	LHP-107	79 / 83	6.0 - 150	71.4	0.55	n	370	Yes	ASL
Metal	7440-66-6	Zinc	12.1		51,800		mg/kg	LHP-126	71 / 71	n/a	51,800	2,300	n	1,500	Yes	ASL
Inorganic	57-12-5	Cyanide	0.38	J	0.38	J	mg/kg	MW-26S	1 / 81	0.013 - 1.8	0.38	160	n	1,100	No	BSL
PCB	NA	Total PCBs (7)	0.0122		43.2		mg/kg	231-B6	83 / 83	n/a	43.2	0.24	c	0.49	Yes	ASL
PEST	5103-71-9	Alpha-Chlordane (6)	0.0553	J	0.0553	J	mg/kg	CF-7	1 / 83	0.00025 - 0.016	0.0553	1.6	c	--	No	BSL
PEST	319-85-7	Beta-BHC	0.0616	J	0.0616	J	mg/kg	IB-3	1 / 83	0.00020 - 0.016	0.0616	0.27	c	--	No	BSL
PEST	58-89-9	Bhc, Gamma Isomer	0.0054		0.0054		mg/kg	IB-3	1 / 83	0.00019 - 0.016	0.0054	0.52	c	0.52	No	BSL
PEST	72-54-8	P,P'-DDD	0.0042		0.032		mg/kg	TLN-3	13 / 83	0.00023 - 0.016	0.032	2	c	3	No	BSL
PEST	72-55-9	P,P'-DDE	0.0016		0.0703		mg/kg	231-B8	18 / 83	0.00023 - 0.012	0.0703	1.4	c	2	No	BSL
PEST	50-29-3	P,P'-DDT	0.0065		0.278		mg/kg	ADS-2	13 / 83	0.00023 - 0.016	0.278	1.7	c	2	No	BSL
PEST	60-57-1	Dieldrin	0.0183	J	0.0183	J	mg/kg	IB-3	1 / 83	0.00024 - 0.016	0.0183	0.03	c	0.042	No	BSL
PEST	33213-65-9	Endosulfan II (6)	0.006		0.006		mg/kg	TLN-3	1 / 83	0.00025 - 0.016	0.006	37	n	340	No	BSL
PEST	72-20-8	Endrin	0.0079		0.0079		mg/kg	IB-3	1 / 83	0.00023 - 0.016	0.0079	1.8	n	17	No	BSL
PEST	5103-74-2	Gamma-Chlordane (6)	0.0582	J	0.0582	J	mg/kg	CF-7	1 / 83	0.00025 - 0.016	0.0582	1.6	c	--	No	BSL
Dioxin	NA	Dioxin 2,3,7,8-TCDD TEQ (8)	4.93E-06		1.54E-05		mg/kg	HB-1A	5 / 5	n/a	1.54E-05	4.50E-06	c	--	Yes	ASL
Furan	NA	Furan 2,3,7,8-TCDD TEQ (8)	1.41E-06		5.43E-05		mg/kg	HB-1A	5 / 5	n/a	5.43E-05	4.50E-06	c	--	Yes	ASL
SVOC	NA	Benzo(a)pyrene TEQ (9)	0.0191		42.7		mg/kg	TLS-6	83 / 83	n/a	42.7	0.015	c	0.66	Yes	ASL
SVOC	83-32-9	Acenaphthene	3.2E-02	J	166		mg/kg	SILO-B1	32 / 83	0.018 - 8.9	166	340	n	3,400	No	BSL
SVOC	208-96-8	Acenaphthylene (6)	0.0337	J	0.193		mg/kg	LHP-102	6 / 83	0.014 - 8.9	0.105	340	n	--	No	BSL
SVOC	120-12-7	Anthracene	0.0108	J	52.4		mg/kg	SILO-B1	43 / 83	0.014 - 8.9	52.4	1,700	n	10,000	No	BSL
SVOC	191-24-2	Benzo(g,h,i)perylene (6)	0.0138	J	0.885		mg/kg	SILO-B1	34 / 83	0.019 - 8.9	0.885	170	n	--	No	BSL
SVOC	92-52-4	Biphenyl, 1,1'-	0.0231	J	0.425		mg/kg	MW-26S	3 / 14	0.017 - 0.063	0.425	390	n	--	No	BSL
SVOC	117-81-7	Bis(2-Ethylhexyl) Phthalate	0.04	J	3.3		mg/kg	231-B6	44 / 83	0.0295 - 8.9	3.3	35	c	49	Yes	BSL/ASL*

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SUBSURFACE SOIL (2 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration [1] (Qualifier)		Maximum Concentration [1] (Qualifier)		Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration [2]	Screening Value (Basis) [3]		Alternate Screening Values [4]	COPC	Rationale [5]
SVOC	85-68-7	Butyl Benzyl Phthalate	0.061	J	0.638		mg/kg	231-B6	2 / 83	0.0175 - 8.9	0.638	260	c	1,100	No	BSL
SVOC	86-74-8	Carbazole	0.0249	J	22.9		mg/kg	SILO-B1	26 / 83	0.0095 - 8.9	22.9	24	c	--	No	BSL
SVOC	106-47-8	Chloroaniline, P-	0.0385	J	3.31		mg/kg	5K-B5	10 / 83	0.022 - 22	3.31	2.4	c	230	Yes	ASL
SVOC	91-58-7	Chloronaphthalene, 2-	0.0222	J	19.2		mg/kg	IB-3	18 / 83	0.0325 - 8.9	19.2	630	n	--	No	BSL
SVOC	MEPH1314	Cresols, M & P	0.0334	J	1.15		mg/kg	HB-3A	8 / 83	0.033 - 22	1.15	340	n	2,800	No	BSL
SVOC	132-64-9	Dibenzofuran	0.0197	J	156		mg/kg	SILO-B1	35 / 83	0.016 - 8.9	156	7.8	n	--	Yes	ASL
SVOC	95-50-1	Dichlorobenzene, 1,2-	0.0263	J	775	J	mg/kg	231-B8	33 / 83	0.025 - 8.9	775	190	n	5,100	Yes	ASL
SVOC	541-73-1	Dichlorobenzene, 1,3-	0.0346	J	63		mg/kg	231-B8	16 / 83	0.026 - 8.9	63	NSC		5,100	No	BSL2
SVOC	106-46-7	Dichlorobenzene, 1,4-	0.0279	J	158		mg/kg	231-B8	21 / 83	0.025 - 8.9	158	2.4	c	570	Yes	ASL
SVOC	120-83-2	Dichlorophenol, 2,4-	0.517		0.517		mg/kg	HB-8C	1 / 83	0.0385 - 22	0.517	18	n	170	No	BSL
SVOC	131-11-3	Dimethyl Phthalate	0.581		0.581		mg/kg	231-B6	1 / 83	0.01 - 8.9	0.581	NSC		10,000	No	BSL2
SVOC	105-67-9	Dimethylphenol, 2,4-	0.0705	J	0.135	J	mg/kg	HB-1A	3 / 83	0.06 - 22	0.135	120	n	1,100	No	BSL
SVOC	84-74-2	Di-N-Butyl Phthalate	0.105		0.125		mg/kg	231-B6	2 / 83	0.0145 - 8.9	0.125	610	n	5,700	No	BSL
SVOC	121-14-2	Dinitrotoluene, 2,4-	256		256		mg/kg	230-B1	1 / 83	0.027 - 8.9	256	1.6	c	1.0	No	IFD
SVOC	606-20-2	Dinitrotoluene, 2,6-	196		196		mg/kg	230-B1	1 / 83	0.0265 - 8.9	196	6.1	n	1.0	No	IFD
SVOC	117-84-0	Di-N-Octyl Phthalate	0.0474	J	0.0474	J	mg/kg	LB-103	1 / 83	0.02 - 8.9	0.0474	NSC		1,100	No	BSL2
SVOC	206-44-0	Fluoranthene	0.0171	J	136		mg/kg	SILO-B1	65 / 83	0.014 - 8.9	136	230	n	2,300	No	BSL
SVOC	86-73-7	Fluorene	0.0299	J	145		mg/kg	SILO-B1	31 / 83	0.014 - 8.9	145	230	n	2,300	No	BSL
SVOC	118-74-1	Hexachlorobenzene	0.0474	J	6.69		mg/kg	231-B6	19 / 83	0.0135 - 8.9	6.69	0.3	c	0.66	Yes	ASL
SVOC	87-68-3	Hexachlorobutadiene	0.0732		233		mg/kg	231-B8	5 / 83	0.0155 - 8.9	233	6.2	c	1	Yes	ASL
SVOC	67-72-1	Hexachloroethane	0.0833	J	1.95		mg/kg	ADS-8	2 / 83	0.0115 - 22	1.95	35	c	6	No	BSL
SVOC	91-57-6	Methylnaphthalene, 2-	2.0E-02	J	172		mg/kg	SILO-B1	40 / 83	0.024 - 8.9	172	31	n	--	Yes	ASL
SVOC	95-48-7	Methylphenol, 2-	0.0432	J	0.113	J	mg/kg	HB-3D	3 / 83	0.0225 - 22	0.113	310	n	2,800	No	BSL
SVOC	91-20-3	Naphthalene	0.0209	J	158		mg/kg	SILO-B1	55 / 83	0.021 - 0.12	158	3.6	c	230	Yes	ASL
SVOC	85-01-8	Phenanthrene [6]	0.0172	J	343		mg/kg	SILO-B1	59 / 83	0.018 - 8.9	343	170	n	--	Yes	ASL
SVOC	108-95-2	Phenol	0.101	J	4.71		mg/kg	HB-1A	8 / 83	0.044 - 22	4.71	1,800	n	10,000	No	BSL
SVOC	129-00-0	Pyrene	0.0161	J	106		mg/kg	SILO-B1	64 / 83	0.014 - 8.9	106	170	n	1,700	No	BSL
SVOC	120-82-1	Trichlorobenzene, 1,2,4-	0.0188	J	4,640	J	mg/kg	231-B8	35 / 83	0.019 - 8.9	4,640	22	c	68	Yes	ASL
SVOC	95-95-4	Trichlorophenol, 2,4,5-	0.268		0.268		mg/kg	HB-8C	1 / 83	0.035 - 22	0.268	610	n	5,600	No	BSL
VOC	67-64-1	Acetone	0.033		3.11		mg/kg	HF-B3	34 / 83	0.0049 - 12	3.11	6,100	n	1,000	No	BSL
VOC	71-43-2	Benzene	0.0011		143		mg/kg	230-B1	47 / 83	0.00081 - 2.3	143	1.1	c	3	Yes	ASL
VOC	78-93-3	Butanone, 2- (MEK)	0.0081	J	1.42		mg/kg	SPR-3	14 / 83	0.0040 - 12	1.42	2,800	n	1,000	No	BSL
VOC	75-15-0	Carbon Disulfide	0.0018	J	5.4		mg/kg	231-B8	29 / 83	0.0044 - 12	5.4	82	n	--	No	BSL
VOC	108-90-7	Chlorobenzene	0.0029	J	74.4		mg/kg	231-B8	25 / 83	0.0040 - 12	74.4	29	n	37	Yes	ASL
VOC	67-66-3	Chloroform	0.0015	J	44.6		mg/kg	231-B8	20 / 83	0.0040 - 12	44.6	0.29	c	19	Yes	ASL
VOC	74-87-3	Chloromethane	0.0034	J	0.0145		mg/kg	CF-1	2 / 83	0.0040 - 12	0.0145	12	n	520	No	BSL
VOC	75-34-3	Dichloroethane, 1,1-	0.00081	J	0.0093		mg/kg	DSP-3	3 / 83	0.0040 - 12	0.0093	3.3	c	570	No	BSL
VOC	107-06-2	Dichloroethane, 1,2-	0.0167		0.0167		mg/kg	CF-1	1 / 83	0.0040 - 12	0.0167	0.43	c	6.0	No	BSL
VOC	156-59-2	Dichloroethene, cis-1,2-	0.0045	J	0.0461		mg/kg	HF-B1	2 / 83	0.0040 - 12	0.0461	16	n	79	No	BSL
VOC	78-87-5	Dichloropropane, 1,2-	0.0199		0.0199		mg/kg	ADN-1	1 / 83	0.0040 - 12	0.0199	0.89	c	10	No	BSL
VOC	100-41-4	Ethylbenzene	0.00078	J	13.3		mg/kg	SPR-4A	26 / 83	0.00081 - 2.3	13.3	5.4	c	1,000	Yes	ASL
VOC	108-87-2	Methylcyclohexane	0.0978	J	0.284	J	mg/kg	LHP-102	4 / 14	0.036 - 0.075	0.284	700	n	--	No	BSL
VOC	75-09-2	Methylene Chloride	0.0046	J	690		mg/kg	231-B13	14 / 83	0.0044 - 1.6	690	11	c	49	Yes	ASL
VOC	100-42-5	Styrene	0.0019	J	5.04		mg/kg	SPR-2A	4 / 83	0.0040 - 12	5.04	630	n	23	No	BSL
VOC	127-18-4	Tetrachloroethylene (PCE)	0.0048	J	6.48		mg/kg	231-B8	3 / 83	0.0040 - 12	6.48	0.55	c	4	Yes	ASL
VOC	108-88-3	Toluene	0.0014		1.57		mg/kg	230-B1	29 / 83	0.00081 - 2.3	1.57	500	n	1,000	No	BSL

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SUBSURFACE SOIL (2 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration (1) (Qualifier)		Maximum Concentration (1) (Qualifier)		Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration (2)	Screening Value (Basis) (3)		Alternate Screening Values (4)	COPC	Rationale (5)
VOC	71-55-6	Trichloroethane, 1,1,1-	0.053	J	0.053	J	mg/kg	LB-103	1 / 83	0.0040 - 12	0.053	870	n	210	No	BSL
VOC	79-01-6	Trichloroethylene (TCE)	0.0028	J	139		mg/kg	230-B1	7 / 83	0.0040 - 12	139	2.8	c	23	Yes	ASL
VOC	75-01-4	Vinyl Chloride	0.0031	J	0.0564		mg/kg	HF-B1	2 / 83	0.0040 - 12	0.0564	0.06	c	2	Yes	BSL/ASL*
VOC	XYLMP	Xylene, M&P- (sum of isomers) (6)	0.0607	J	0.568		mg/kg	LHP-101	6 / 14	0.048 - 0.080	0.568	340	n	--	No	BSL
VOC	95-47-6	Xylene, O-	0.0295	J	0.125		mg/kg	LHP-102	5 / 14	0.027 - 0.048	0.125	380	n	--	No	BSL
VOC	1330-20-7	Xylenes, Mixed	0.002		6.29		mg/kg	231-B8	25 / 83	0.00095 - 4.6	6.29	63	n	410	No	BSL

Notes:

(1) Minimum/maximum detected concentration.

(2) Maximum detected concentration used as the screening concentration.

(3) Screening values are USEPA Regional Screening Levels (RSLs) for residential soil (updated November 2010) based on the following endpoints:

- c cancer endpoint and a target cancer risk of 1×10^{-6}
- n non-cancer endpoint and a target hazard quotient of 0.1
- ++ based on USEPA's Integrated Exposure Uptake Biokinetic (IEUBK) model.

(4) Alternate screening values are New Jersey Residential Direct Contact Soil Cleanup Criteria (NJRDCSCC), which are available on-line at http://www.nj.gov/dep/srp/guidance/scc/.

(5) Rationale Codes for selection or exclusion as COPC:

Selection:		*Exclusion:*
ASL	Above screening criteria	Below screening criteria
ASL2	Above NJRDCSCC in absence of screening criteria	Below NJRDCSCC in absence of screening criteria
NSC	No Screening Criteria	Essential nutrient
ASL*	Constiuent identified as surface soil (0 to 2 ft bgs) and, therefore, retained as mixed soil (0 to 10 ft bgs) COPC	Infrequent detection (<5%)

(6) The following surrogate values were used for screening:

- total chromium uses chromium III as a surrogate (see Section 3.2 of the risk assessment)
- total mercury uses elemental mercury as a surrogate (see Section 3.2 of the risk assessment)
- alpha-chlordane and gamma-chlordane use chlordane as a surrogate
- delta-BHC uses alpha-BHC as a surrogate
- endosulfan II and endosulfan sulfate use endosulfan as a surrogate
- endrin ketone uses endrin as a surrogate
- acenaphthylene uses acenaphthene as a surrogate
- benzo(g,h,i)perylene and phenanthrene use pyrene as a surrogate
- methylcyclohexane uses cyclohexane as a surrogate
- m,p-xylene (sum of isomers) uses the more stringent of m- and p-xylene as a surrogate

(7) Aroclor results were summed and evaluated as Total PCBs using USEPA's "High Risk and Persistence" cancer potency estimates (see Section 3.2 of the risk assessment).

(8) PCDD or PCDF concentrations were converted to 2,3,7,8-TCDD equivalent concentrations using the WHO 2005 TEF multiplier (see Section 3.2 of the risk assessment).

(9) Carcinogenic PAH concentrations were converted to benzo(a)pyrene equivalent concentrations using USEPA default TEF multipliers (see Section 3.2 of the risk assessment).

Shading indicates a COPC

Definitions:

PCB = Polychlorinated biphenyl
PEST = Pesticide
SVOC = Semivolatile organic compound
VOC = Volatile organic compound
J = Estimated value
ft bgs = Feet below ground surface
mg/kg = Milligrams per kilogram
COPC = Chemical of potential concern

Table 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
OVERBURDEN GROUNDWATER
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration [1] (Qualifier)	Maximum Concentration [1] (Qualifier)	Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration [2]	Screening Value (Basis) [3]	Alternate Screening Values [4]	COPC	Rationale [5]
Dissolved (Filtered) Results													
Metal	7429-90-5	Aluminum	201	218	µg/L	MW-24S	2 / 20	200 - 2,000	218	3,700 n	200	No	BSL
Metal	7440-38-2	Arsenic	11.7	588 J	µg/L	MW-12S	14 / 20	8.0 - 80	588	0.045 c	0.02	Yes	ASL
Metal	7440-39-3	Barium	390 J	15,300	µg/L	MW-21S	5 / 20	200 - 2,000	15,300	730 n	6,000	Yes	ASL
Metal	7440-43-9	Cadmium	10.5	10.5	µg/L	MW-15S	1 / 20	4.0 - 40	10.5	1.8 n	4	Yes	ASL
Metal	7440-70-2	Calcium	5,950	1,940,000	µg/L	MW-8S	19 / 20	5,000 - 5,000	1,940,000	NSC	--	No	NUT
Metal	7440-47-3	Chromium [6]	11.8	211 J	µg/L	MW-18S	5 / 20	10 - 100	211	5,500 n	70	No	BSL
Metal	7440-48-4	Cobalt	191	191	µg/L	MW-15S	1 / 20	50 - 500	191	1.1 n	--	Yes	ASL
Metal	7439-89-6	Iron	124	289,000	µg/L	MW-15S	18 / 20	100 - 100	289,000	2,600 n	300	Yes	ASL
Metal	7439-92-1	Lead	4.5 J	4.5 J	µg/L	MW-21S	1 / 20	3.0 - 30	4.5	15 MCL	5	No	BSL
Metal	7439-95-4	Magnesium	7,320	333,000	µg/L	MW-15S	18 / 20	5,000 - 5,000	333,000	NSC	--	No	NUT
Metal	7439-96-5	Manganese	27.3	201,000	µg/L	MW-15S	18 / 20	15 - 15	201,000	88 n	50	Yes	ASL
Metal	7439-97-6	Mercury	0.25 J	164	µg/L	MW-24S	8 / 20	0.20 - 0.20	164	0.057 n	2	Yes	ASL
Metal	7440-02-0	Nickel	62.8	190	µg/L	MW-26S	3 / 20	40 - 400	190	73 n	100	Yes	ASL
Metal	7440-09-7	Potassium	5,240 J	795,000 J	µg/L	MW-12S	19 / 20	5,000 - 5,000	795,000	NSC	--	No	NUT
Metal	7440-23-5	Sodium	20,700	29,600,000 J	µg/L	MW-8S	20 / 20	n/a	29,600,000	NSC	50,000	No	NUT
Metal	7440-62-2	Vanadium	57.9	120 J	µg/L	MW-18S	2 / 20	50 - 500	120	0.26 n	60	Yes	ASL
Metal	7440-66-6	Zinc	42.8	358	µg/L	MW-10S	4 / 20	20 - 200	358	1,100 n	2,000	No	BSL
Total (Unfiltered) Results													
ING	57-12-5	Cyanide	20	77	µg/L	MW-12S	3 / 19	10 - 10	77	73 n	100	Yes	ASL
Metal	7429-90-5	Aluminum	202	2,360	µg/L	MW-14S	7 / 20	200 - 2,000	2,360	3,700 n	200	No	BSL
Metal	7440-36-0	Antimony	6 J	6 J	µg/L	MW-11S	1 / 20	6.0 - 60	6	1.5 n	6.0	Yes	ASL
Metal	7440-38-2	Arsenic	12	275 J	µg/L	MW-18S	14 / 20	8.0 - 80	275	0.045 c	0.02	Yes	ASL
Metal	7440-39-3	Barium	319 J	14,200	µg/L	MW-21S	5 / 20	200 - 2,000	14,200	730 n	6,000	Yes	ASL
Metal	7440-43-9	Cadmium	5.9	22.9	µg/L	MW-7S	3 / 20	4.0 - 40	22.9	1.8 n	4.0	Yes	ASL
Metal	7440-70-2	Calcium	5,550	1,810,000	µg/L	MW-8S	19 / 20	5,000 - 5,000	1,810,000	NSC	--	No	NUT
Metal	7440-47-3	Chromium [6]	11.1	233 J	µg/L	MW-18S	6 / 20	10 - 100	233	5,500 n	70	No	BSL
Metal	7440-48-4	Cobalt	190	190	µg/L	MW-15S	1 / 20	50 - 500	190	1.1 n	--	Yes	ASL
Metal	7440-50-8	Copper	40.3	40.3	µg/L	MW-23S	1 / 20	25 - 250	40.3	150 n	1,300	No	BSL
Metal	7439-89-6	Iron	103	346,000	µg/L	MW-15S	20 / 20	n/a	346,000	2,600 n	300	Yes	ASL
Metal	7439-92-1	Lead	3.1	9.7	µg/L	MW-23S	4 / 20	3.0 - 30	9.7	15 MCL	5.0	No	BSL
Metal	7439-95-4	Magnesium	6,470 J	320,000	µg/L	MW-15S	18 / 20	5,000 - 5,000	320,000	NSC	--	No	NUT
Metal	7439-96-5	Manganese	27.6	219,000	µg/L	MW-15S	18 / 20	15 - 15	219,000	88 n	50	Yes	ASL
Metal	7439-97-6	Mercury	0.2	233	µg/L	MW-24S	13 / 20	0.20 - 0.20	233	0.057 n	2.0	Yes	ASL
Metal	22967-92-6	Methyl Mercury	0.000635	168	µg/L	MW-24S	3 / 3	n/a	168	0.37 n	--	Yes	ASL
Metal	7440-02-0	Nickel	56.6	63.1	µg/L	MW-12S	2 / 20	40 - 400	63.1	73 n	100	No	BSL
Metal	7440-09-7	Potassium	5,060 J	821,000 J	µg/L	MW-12S	18 / 20	5,000 - 50,000	821,000	NSC	--	No	NUT
Metal	7782-49-2	Selenium	10.7	10.7	µg/L	MW-26S	1 / 20	10 - 100	10.7	18 n	40	No	BSL
Metal	7440-23-5	Sodium	23,400	28,600,000 J	µg/L	MW-8S	19 / 19	n/a	28,600,000	NSC	50,000	No	NUT
Metal	7440-62-2	Vanadium	54.6	136 J	µg/L	MW-18S	2 / 20	50 - 500	136	0.26 n	60	Yes	ASL
Metal	7440-66-6	Zinc	44.1 J	1,690	µg/L	MW-7S	7 / 20	20 - 20	1,690	1,100 n	2,000	Yes	ASL
PEST	72-54-8	P,P'-DDD	0.035 J	0.035 J	µg/L	MW-17S	1 / 19	0.0024 - 0.0030	0.035	0.28 c	0.10	No	BSL
Dioxin	NA	Dioxin 2,3,7,8-TCDD TEQ [7]	1.90E-05	1.90E-05	µg/L	MW-24S	1 / 1	n/a	1.90E-05	5.20E-07 c	2.00E-07	Yes	ASL
Furan	NA	Furan 2,3,7,8-TCDD TEQ [7]	1.62E-04	1.62E-04	µg/L	MW-24S	1 / 1	n/a	1.62E-04	5.20E-07 c	2.00E-07	Yes	ASL
SVOC	83-32-9	Acenaphthene	0.311	52.8	µg/L	MW-13S	9 / 19	0.017 - 0.019	52.8	220 n	400	No	BSL
SVOC	208-96-8	Acenaphthylene [6]	0.737	0.737	µg/L	MW-13S	1 / 19	0.0095 - 0.012	0.737	220 n	--	No	BSL
SVOC	120-12-7	Anthracene	0.304	13.5	µg/L	MW-18S	10 / 19	0.021 - 0.023	13.5	1,100 n	2,000	No	BSL

Table 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
OVERBURDEN GROUNDWATER
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration (1) (Qualifier)		Maximum Concentration (1) (Qualifier)		Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration (2)	Screening Value (Basis) (3)		Alternate Screening Values (4)	COPC	Rationale (5)
SVOC	56-55-3	Benz(a)anthracene	0.266		0.775		µg/L	MW-12S	3 / 19	0.0068 - 0.0076	0.775	0.029	c	0.05	Yes	ASL
SVOC	92-52-4	Biphenyl, 1,1-	0.82	J	43.5		µg/L	MW-24S	5 / 19	0.33 - 0.37	43.5	180	n	400	No	BSL
SVOC	117-81-7	Bis(2-Ethylhexyl) Phthalate	1.1	J	1.4	J	µg/L	MW-24S	2 / 19	0.66 - 0.83	1.4	4.8	c	2.0	No	BSL
SVOC	86-74-8	Carbazole (8)	1.4	J	143		µg/L	MW-24S	6 / 19	0.36 - 0.41	143	24	c	--	Yes	ASL
SVOC	106-47-8	Chloroaniline, p-	1.6	J	4,460	J	µg/L	MW-17S	9 / 19	0.40 - 0.45	4,460	0.34	c	30	Yes	ASL
SVOC	91-58-7	Chloronaphthalene, 2-	7.9		44.6		µg/L	MW-18S	2 / 19	0.98 - 1.2	44.6	290	n	600	No	BSL
SVOC	95-57-8	Chlorophenol, 2-	2.7	J	26.1		µg/L	MW-6S	5 / 19	0.95 - 1.1	26.1	18	n	40	Yes	ASL
SVOC	218-01-9	Chrysene	0.213	J	0.469		µg/L	MW-12S	2 / 19	0.017 - 0.019	0.469	2.9	c	5.0	No	BSL
SVOC	132-64-9	Dibenzofuran	2.4	J	16.2		µg/L	MW-13S	4 / 19	0.34 - 0.39	16.2	3.7	n	--	Yes	ASL
SVOC	95-50-1	Dichlorobenzene, 1,2-	0.49	J	4,220		µg/L	MW-24S	11 / 19	0.20 - 0.51	4,220	37	n	600	Yes	ASL
SVOC	541-73-1	Dichlorobenzene, 1,3- (6)	2.5		199		µg/L	MW-21S	8 / 19	0.32 - 0.79	199	37	n	600	Yes	ASL
SVOC	106-46-7	Dichlorobenzene, 1,4-	0.8	J	582		µg/L	MW-24S	9 / 19	0.24 - 0.60	582	0.43	c	75	Yes	ASL
SVOC	120-83-2	Dichlorophenol, 2,4-	5.5		11.7		µg/L	MW-21S	4 / 19	1.6 - 1.8	11.7	11	n	20	Yes	ASL
SVOC	105-67-9	Dimethylphenol, 2,4-	3.2	J	9.6	J	µg/L	MW-17S	3 / 19	1.6 - 1.8	9.6	73	n	100	No	BSL
SVOC	206-44-0	Fluoranthene	0.229		11.1		µg/L	MW-12S	8 / 19	0.0090 - 0.0098	11.1	150	n	300	No	BSL
SVOC	86-73-7	Fluorene	0.274		8.21		µg/L	MW-17S	7 / 19	0.020 - 0.023	8.21	150	n	300	No	BSL
SVOC	118-74-1	Hexachlorobenzene	1		1		µg/L	MW-24S	1 / 19	0.020 - 0.066	1	0.042	c	0.02	Yes	ASL
SVOC	91-57-6	Methylnaphthalene, 2-	0.91	J	0.91	J	µg/L	MW-21S	1 / 19	0.41 - 0.51	0.91	15	n	--	No	BSL
SVOC	95-48-7	Methylphenol, 2-	2.5	J	5.1	J	µg/L	MW-17S	2 / 19	1.4 - 1.5	5.1	180	n	--	No	BSL
SVOC	91-20-3	Naphthalene	1.18		561		µg/L	MW-24S	8 / 19	0.026 - 0.029	561	0.14	c	300	Yes	ASL
SVOC	98-95-3	Nitrobenzene	55	J	55	J	µg/L	MW-17S	1 / 19	0.42 - 0.52	55	0.12	c	4.0	Yes	ASL
SVOC	87-86-5	Pentachlorophenol	1.87		1.87		µg/L	MW-24S	1 / 19	0.30 - 0.43	1.87	0.17	c	0.30	Yes	ASL
SVOC	85-01-8	Phenanthrene (6)	0.422		27		µg/L	MW-12S	7 / 19	0.021 - 0.024	27	110	n	--	No	BSL
SVOC	108-95-2	Phenol	1.1	J	1.1	J	µg/L	MW-6S	1 / 19	0.50 - 0.62	1.1	1,100	n	2,000	No	BSL
SVOC	129-00-0	Pyrene	0.211	J	4.5		µg/L	MW-12S	7 / 19	0.014 - 0.015	4.5	110	n	200	No	BSL
SVOC	120-82-1	Trichlorobenzene, 1,2,4-	0.66	J	285		µg/L	MW-24S	5 / 19	0.16 - 4.0	285	2.3	c	9.0	Yes	ASL
SVOC	95-95-4	Trichlorophenol, 2,4,5-	8.6	J	8.6	J	µg/L	MW-17S	1 / 19	1.9 - 2.4	8.6	370	n	700	No	BSL
SVOC	88-06-2	Trichlorophenol, 2,4,6-	2.2	J	2.2	J	µg/L	MW-17S	1 / 19	1.3 - 1.6	2.2	6.1	c	1.0	No	BSL
VOC	67-64-1	Acetone	22.2		22.2		µg/L	MW-17S	1 / 19	2.4 - 61	22.2	2,200	n	6,000	No	BSL
VOC	71-43-2	Benzene	0.51	J	848		µg/L	MW-21S	14 / 19	0.21 - 0.21	848	0.41	c	0.20	Yes	ASL
VOC	75-15-0	Carbon Disulfide	1.4	J	2.6		µg/L	MW-12S	2 / 19	0.21 - 5.2	2.6	100	n	700	No	BSL
VOC	108-90-7	Chlorobenzene	1.4		16,200		µg/L	MW-6S	11 / 19	0.22 - 0.56	16,200	9.1	n	50	Yes	ASL
VOC	67-66-3	Chloroform	0.92	J	3.5		µg/L	MW-17S	2 / 19	0.22 - 5.4	3.5	0.19	c	70	Yes	ASL
VOC	156-59-2	Cis-1,2-Dichloroethene	0.34	J	3		µg/L	MW-13S	5 / 19	0.18 - 4.5	3	7.3	n	70	No	BSL
VOC	75-34-3	Dichloroethane, 1,1-	0.38	J	2.6		µg/L	MW-23S	2 / 19	0.23 - 5.8	2.6	2.4	c	50	Yes	ASL
VOC	107-06-2	Dichloroethane, 1,2-	1.8		1.8		µg/L	MW-8S	1 / 19	0.29 - 7.3	1.8	0.15	c	0.30	Yes	ASL
VOC	100-41-4	Ethylbenzene	0.9	J	30.4		µg/L	MW-16S	7 / 19	0.20 - 1.0	30.4	1.5	c	700	Yes	ASL
VOC	98-82-8	Isopropylbenzene	0.42	J	1.9	J	µg/L	MW-13S	2 / 19	0.20 - 5.0	1.9	68	n	--	No	BSL
VOC	108-10-1	4-Methyl-2-Pentanone (MIBK)	2.9	J	2.9	J	µg/L	MW-17S	1 / 19	1.1 - 27	2.9	200	n	--	No	BSL
VOC	108-87-2	Methylcyclohexane (6)	0.97	J	0.97	J	µg/L	MW-17S	1 / 19	0.18 - 4.6	0.97	1,300	n	--	No	BSL
VOC	75-09-2	Methylene Chloride	0.57	J	1,960		µg/L	MW-24S	3 / 19	0.27 - 6.6	1,960	4.8	c	3.0	Yes	ASL
VOC	100-42-5	Styrene	4	J	4	J	µg/L	MW-16S	1 / 19	0.16 - 4.0	4	160	n	100	No	BSL
VOC	1634-04-4	Tert-Butyl Methyl Ether	0.45	J	10.5		µg/L	MW-6S	4 / 19	0.31 - 7.6	10.5	12	c	70	No	BSL
VOC	127-18-4	Tetrachloroethylene (PCE)	6.9	J	6.9	J	µg/L	MW-24S	1 / 19	0.28 - 6.9	6.9	0.11	c	0.40	Yes	ASL
VOC	108-88-3	Toluene	0.82	J	137		µg/L	MW-17S	6 / 19	0.20 - 1.0	137	230	n	600	No	BSL
VOC	156-60-5	Trans-1,2-Dichloroethene	0.85	J	0.85	J	µg/L	MW-13S	1 / 19	0.42 - 11	0.85	11	n	100	No	BSL
VOC	79-01-6	Trichloroethylene (TCE)	0.41	J	0.52	J	µg/L	MW-11S	3 / 19	0.29 - 7.2	0.52	2	c	1.0	No	BSL

Table 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
OVERBURDEN GROUNDWATER
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration (1) (Qualifier)		Maximum Concentration (1) (Qualifier)		Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration (2)	Screening Value (Basis) (3)		Alternate Screening Values (4)	COPC	Rationale (5)
VOC	75-01-4	Vinyl Chloride	0.65	J	0.71	J	µg/L	MW-13S	2 / 19	0.29 - 7.2	0.71	0.016	c	0.08	Yes	ASL
VOC	XYLMP	Xylene, M,P- (sum of isomers)	2.2	J	114		µg/L	MW-24S	7 / 19	0.42 - 1.0	114	120	n	--	No	BSL
VOC	95-47-6	Xylene, O-	0.82	J	14.4		µg/L	MW-24S	6 / 19	0.31 - 7.6	14.4	120	n	--	No	BSL
VOC	1330-20-7	Xylenes, Mixed	0.82	J	128		µg/L	MW-24S	8 / 19	0.31 - 0.76	128	20	n	1,000	Yes	ASL

Notes:
(1) Minimum/maximum detected concentration.
(2) Maximum detected concentration used as the screening concentration.
(3) Screening values are USEPA Regional Screening Levels (RSLs) for tapwater (updated November 2010) or, if an RSL was not available, the Federal Maximum Contaminant Level (MCL). The groundwater screening values are based on the following endpoints:
- c Cancer endpoint and a target cancer risk of 1×10^{-6}
- nc Non-cancer endpoint and a target hazard quotient of 0.1
- MCL Federal MCL

(4) Alternate screening values are New Jersey Class II-A Groundwater Quality Criteria (GQC), which are available on-line at http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_1.htm.
(5) Rationale Codes for selection or exclusion as COPC:

Selection:
- ASL Above screening criteria
- ASL2 Above NJRDCSCC in absence of screening criteria
- NSC No Screening Criteria

Exclusion:
- BSL Below screening criteria
- BSL2 Below NJRDCSCC in absence of screening criteria
- NUT Essential nutrient

(6) The following surrogate values were used for screening:
- total chromium uses chromium III as a surrogate (see Section 3.2 of the risk assessment)
- total mercury uses elemental mercury as a surrogate (see Section 3.2 of the risk assessment)
- acenaphthylene uses acenaphthene as a surrogate
- 1,3-Dichlorobenzene uses 1,2-Dichlorobenzene as a surrogate
- phenanthrene uses pyrene as a surrogate
- m,p-xylene (sum of isomers) uses the more stringent of m- and p-xylene as a surrogate

(7) PCDD or PCDF concentrations were converted to 2,3,7,8-TCDD equivalent concentrations using the WHO 2005 TEF multiplier (see Section 3.2 of the risk assessment).
(8) Screening values for carbazole is USEPA Region 9 PRG (October 2004) for tapwater.

Shading indicates a COPC

Definitions:
- PCB = Polychlorinated biphenyl
- PEST = Pesticide
- SVOC = Semivolatile organic compound
- VOC = Volatile organic compound
- J = Estimated value
- µg/L Micrograms per liter
- COPC Chemical of potential concern
- MCL Maximum contaminant level

Table 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SOUTH BRANCH CREEK SEDIMENT/BANK SOIL (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration (1) (Qualifier)	Maximum Concentration (1) (Qualifier)	Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration (2)	Screening Value (Basis) (3)	Alternate Screening Values (4)	COPC	Rationale (5)
Metal	7429-90-5	Aluminum	3,490	29,300 J	mg/kg	SED-D-3	70 / 70	n/a	29,300	7,700 n	--	Yes	ASL
Metal	7440-36-0	Antimony	1.2 J	6	mg/kg	SED-A-2	4 / 70	1.1 - 13	6	3.1 n	14	Yes	ASL
Metal	7440-38-2	Arsenic	1.5	5,460 J	mg/kg	LM-A-1	70 / 70	n/a	5,460	0.39 c	20	Yes	ASL
Metal	7440-39-3	Barium	72.2	18,700	mg/kg	LM-B-3	70 / 70	n/a	18,700	1,500 n	700	Yes	ASL
Metal	7440-41-7	Beryllium	0.55	1.4	mg/kg	EC-4	15 / 70	0.54 - 5.9	1.4	16 n	2.0	No	BSL
Metal	7440-43-9	Cadmium	0.62	240	mg/kg	BSL-8	56 / 70	0.53 - 1.9	240	7 n	39	Yes	ASL
Metal	7440-70-2	Calcium	869	154,000 J	mg/kg	SED-4	67 / 70	540 - 610	154,000	NSC	--	No	NUT
Metal	7440-47-3	Chromium (6)	6.5	2,690	mg/kg	SED-A-2	70 / 70	n/a	2,690	12,000 n	120,000	No	BSL
Metal	18540-29-9	Chromium, Hexavalent	1.9	7.5	mg/kg	SED-A-3	11 / 30	1.3 - 6.4	7.5	0.29 c	240	Yes	ASL
Metal	7440-48-4	Cobalt	6.1	26.1	mg/kg	SED-A-1	32 / 70	5.4 - 32	26.1	2.3 n	--	Yes	ASL
Metal	7440-50-8	Copper	10.3	1,100	mg/kg	SED-A-2	70 / 70	n/a	1,100	310 n	600	Yes	ASL
Metal	7439-89-6	Iron	5,650 J	247,000	mg/kg	SED-A-1	70 / 70	n/a	247,000	5,500 n	--	Yes	ASL
Metal	7439-92-1	Lead	9.2	3,950	mg/kg	SED-A-2	70 / 70	n/a	3,950	40 ++	400	Yes	ASL
Metal	7439-95-4	Magnesium	762 J	21,400 J	mg/kg	SED-C-2, SED-4	58 / 60	540 - 610	21,400	NSC	--	No	NUT
Metal	7439-96-5	Manganese	38.7	1,300	mg/kg	SED-A-1	70 / 70	n/a	1,300	180 n	--	Yes	ASL
Metal	7439-97-6	Mercury (6)	0.38	3,050	mg/kg	LM-C-4	74 / 74	n/a	3,050	0.56 n	14	Yes	ASL
Metal	22967-92-6	Methyl Mercury	0.0008	0.106	mg/kg	SED-A-1	42 / 42	n/a	0.106	0.78 n	--	No	BSL
Metal	7440-02-0	Nickel	6.4 J	114	mg/kg	LM-E-1	69 / 70	4.9 - 4.9	114	150 n	250	No	BSL
Metal	7440-09-7	Potassium	558	6,910 J	mg/kg	SED-D-3	56 / 70	540 - 1,400	6,910	NSC	--	No	NUT
Metal	7782-49-2	Selenium	1.3	29.3	mg/kg	LM-D-4	14 / 70	1.1 - 13	29.3	39 n	63	No	BSL
Metal	7440-22-4	Silver	1.1	8.1 J	mg/kg	SED-D-3, BSL-8	30 / 70	1.1 - 6.4	8.1	39 n	110	No	NUT
Metal	7440-23-5	Sodium	657	31,500	mg/kg	LM-D-2	56 / 70	530 - 2,900	31,500	NSC	--	No	BSL2
Metal	7440-28-0	Thallium	1.2	1.2	mg/kg	EC-9	1 / 70	0.86 - 12	1.2	NSC 0	2	No	BSL2
Metal	7440-62-2	Vanadium	10.6	129	mg/kg	SED-A-1	70 / 70	n/a	129	0.55 n	370	Yes	ASL
Metal	7440-66-6	Zinc	27.3	8,020	mg/kg	BSL-8	70 / 70	n/a	8,020	2,300 n	1,500	Yes	ASL
Inorganic	57-12-5	Cyanide	0.27	12	mg/kg	BSL-10	9 / 70	0.27 - 3.5	12	160 n	1,100	No	BSL
PCB	NA	Total PCBs (7)	0.0144	2.74	mg/kg	SED-8	70 / 70	n/a	2.74	0.24 c	0.49	Yes	ASL
PEST	319-84-6	Alpha-BHC	0.028	0.028	mg/kg	SED-A-1	1 / 70	0.00032 - 0.025	0.028	0.077 c	--	No	BSL
PEST	72-54-8	P,P'-DDD	0.003	2.13	mg/kg	SED-A-2	38 / 70	0.00045 - 0.025	2.13	2 c	3.0	No	IFE
PEST	72-55-9	P,P'-DDE	0.0012	0.463 J	mg/kg	LM-E-4	26 / 70	0.00043 - 0.025	0.463	1.4 c	2.0	No	BSL
PEST	50-29-3	P,P'-DDT	0.0017	0.126 J	mg/kg	SED-E-3	30 / 70	0.00053 - 0.025	0.126	1.7 c	2.0	No	BSL
PEST	60-57-1	Dieldrin	0.0016	0.0212	mg/kg	EC-9	7 / 70	0.00043 - 0.025	0.0212	0.03 c	0.042	No	BSL
PEST	72-43-5	Methoxychlor	0.0205	0.0224	mg/kg	BSL-10	2 / 70	0.00057 - 0.064	0.0224	31 n	280	No	BSL
Dioxin	NA	Dioxin 2,3,7,8-TCDD TEQ (8)	1.1E-06	9.5E-05	mg/kg	LM-E-3	18 / 18	n/a	9.5E-05	4.5E-06 c	--	Yes	ASL
Furan	NA	Furan 2,3,7,8-TCDD TEQ (8)	2.2E-06	2.0E-04	mg/kg	LM-C-2	18 / 18	n/a	2.0E-04	4.5E-06 c	--	Yes	ASL
SVOC	NA	Benzo(a)pyrene TEQ (9)	0.025	4.46	mg/kg	SED-A-2	70 / 70	n/a	4.46	0.015 c	0.66	Yes	ASL
SVOC	83-32-9	Acenaphthene	0.0184 J	0.58 J	mg/kg	SED-A-2	9 / 70	0.022 - 0.51	0.58	340 n	3,400	No	BSL
SVOC	208-96-8	Acenaphthylene (6)	0.027 J	0.645	mg/kg	SED-2	18 / 70	0.018 - 0.41	0.645	340 n	--	No	BSL
SVOC	120-12-7	Anthracene	0.0222 J	1.75	mg/kg	SED-2	38 / 70	0.017 - 0.39	1.75	1,700 n	10,000	No	BSL
SVOC	191-24-2	Benzo(g,h,i)perylene (6)	0.0194 J	1.67	mg/kg	SED-A-2	42 / 70	0.024 - 0.55	1.67	170 n	--	No	BSL
SVOC	117-81-7	Bis(2-Ethylhexyl) Phthalate	0.0409 J	26.5	mg/kg	SED-A-1	53 / 70	0.056 - 2.8	26.5	35 c	49	No	BSL
SVOC	85-68-7	Butyl Benzyl Phthalate	0.124	0.568	mg/kg	SC-1	3 / 70	0.033 - 0.76	0.568	260 c	1,100	No	BSL
SVOC	86-74-8	Carbazole (10)	0.0208 J	0.767	mg/kg	SED-A-2	15 / 70	0.017 - 0.41	0.767	24 c	--	No	BSL
SVOC	91-58-7	Chloronaphthalene, 2-	0.0545 J	0.0545 J	mg/kg	SED-1	1 / 70	0.061 - 1.4	0.0545	630 n	--	No	BSL
SVOC	132-64-9	Dibenzofuran	0.0391 J	0.337 J	mg/kg	SED-A-2	6 / 70	0.020 - 0.47	0.337	7.8 n	--	No	BSL
SVOC	95-50-1	Dichlorobenzene, 1,2-	0.00074 J	7.12	mg/kg	SED-A-2	20 / 70	0.00080 - 0.36	7.12	190 n	5,100	No	BSL
SVOC	541-73-1	Dichlorobenzene, 1,3-	0.00087 J	2.34	mg/kg	LM-C-4	10 / 70	0.00085 - 0.38	2.34	NSC	5,100	No	BSL2

Table 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SOUTH BRANCH CREEK SEDIMENT/BANK SOIL (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration (1) (Qualifier)		Maximum Concentration (1) (Qualifier)		Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration (2)	Screening Value (Basis) (3)		Alternate Screening Values (4)	COPC	Rationale (5)
SVOC	106-46-7	Dichlorobenzene, 1,4-	0.0031	J	15.1		mg/kg	SED-A-2	21 / 70	0.00081 - 0.36	15.1	2.4	c	570	Yes	ASL
SVOC	84-66-2	Diethyl Phthalate	0.0198	J	0.0198	J	mg/kg	CF-3	1 / 70	0.019 - 0.43	0.0198	4,900	n	10,000	No	BSL
SVOC	131-11-3	Dimethyl Phthalate	0.126		0.652		mg/kg	SED-7	2 / 70	0.019 - 0.43	0.652	NSC		10,000	No	BSL2
SVOC	84-74-2	Di-N-Butyl Phthalate	0.0414	J	7.3		mg/kg	SED-A-2	4 / 70	0.028 - 0.64	7.3	610	n	5,700	No	BSL
SVOC	117-84-0	Di-N-Octyl Phthalate	0.125	J	0.498	J	mg/kg	LM-A-2	3 / 70	0.037 - 0.86	0.498	NSC		1,100	No	BSL2
SVOC	206-44-0	Fluoranthene	0.0254	J	33.6		mg/kg	SED-2	61 / 70	0.039 - 0.24	33.6	230	n	2,300	No	BSL
SVOC	86-73-7	Fluorene	0.0207	J	0.555		mg/kg	SED-B-1	11 / 70	0.017 - 0.40	0.555	230	n	2,300	No	BSL
SVOC	118-74-1	Hexachlorobenzene	0.0433	J	0.547		mg/kg	SC-1	7 / 70	0.025 - 0.58	0.547	0.3	c	0.66	Yes	ASL
SVOC	87-68-3	Hexachlorobutadiene	0.0678	J	0.875		mg/kg	CF-2	3 / 70	0.029 - 0.66	0.875	6.2	c	1	No	BSL
SVOC	67-72-1	Hexachloroethane	0.053	J	0.0856	J	mg/kg	LM-C-2	4 / 70	0.022 - 0.59	0.0856	35	c	6	No	BSL
SVOC	91-57-6	Methylnaphthalene, 2-	0.0254	J	0.0254	J	mg/kg	EC-9	1 / 70	0.028 - 0.65	0.0254	31	n	--	No	BSL
SVOC	91-20-3	Naphthalene	0.0459	J	0.254		mg/kg	SED-2	5 / 70	0.024 - 0.56	0.254	3.6	c	230	No	BSL
SVOC	85-01-8	Phenanthrene (6)	0.0315	J	5.84		mg/kg	SED-A-2	47 / 70	0.019 - 0.44	5.84	170	n	--	No	BSL
SVOC	129-00-0	Pyrene	0.0215	J	16.3		mg/kg	SED-2	64 / 70	0.071 - 0.24	16.3	170	n	1,700	No	BSL
SVOC	120-82-1	Trichlorobenzene, 1,2,4-	0.0018	J	11.8		mg/kg	SED-A-2	18 / 70	0.00061 - 0.28	11.8	22	c	68	No	BSL
VOC	79-20-9	Acetic Acid, Methyl Ester	0.656	J	30.9	J	mg/kg	LM-E-4	18 / 38	0.0019 - 1.1	30.9	7,800	n	--	No	BSL
VOC	67-64-1	Acetone	0.0172		0.636	J	mg/kg	SED-5	29 / 70	0.0038 - 2.3	1.52	6,100	n	1,000	No	BSL
VOC	100-52-7	Benzaldehyde	0.305	J	0.305	J	mg/kg	SED-7	1 / 38	0.048 - 1.1	0.305	780	n	--	No	BSL
VOC	71-43-2	Benzene	0.0044	J	0.135	J	mg/kg	LM-B-1	3 / 70	0.00064 - 0.38	0.135	1.1	c	3	No	BSL
VOC	78-93-3	Butanone, 2- (MEK)	0.0106		1.76	J	mg/kg	LM-E-4	10 / 70	0.0036 - 2.1	1.76	2,800	n	1,000	No	BSL
VOC	75-15-0	Carbon Disulfide	0.0013	J	0.819	J	mg/kg	LM-D-3	28 / 70	0.00073 - 0.43	0.819	82	n	--	No	BSL
VOC	108-90-7	Chlorobenzene	0.0142	J	120		mg/kg	LM-C-4	9 / 70	0.00058 - 0.34	120	29	n	37	Yes	ASL
VOC	67-66-3	Chloroform	0.0012	J	0.978	J	mg/kg	LM-A-4	4 / 70	0.00077 - 0.46	0.978	0.29	c	19	Yes	ASL
VOC	107-06-2	Dichloroethane, 1,2-	0.332		0.449	J	mg/kg	LM-A-3	2 / 70	0.00072 - 0.43	0.449	0.43	c	6	No	IFD
VOC	75-35-4	Dichloroethene, 1,1-	0.00089	J	0.0011	J	mg/kg	BSL-1	2 / 70	0.00091 - 0.54	0.0011	24	n	570	No	BSL
VOC	100-41-4	Ethylbenzene	0.0325		0.0325		mg/kg	SED-A-2	1 / 70	0.00060 - 0.35	0.0325	5.4	c	1,000	No	BSL
VOC	75-09-2	Methylene Chloride	0.0063	J	0.619		mg/kg	SED-2	6 / 70	0.00092 - 0.54	0.619	11	c	49	No	BSL
VOC	127-18-4	Tetrachloroethylene (PCE)	0.285	J	0.285	J	mg/kg	LM-A-4	1 / 70	0.0011 - 0.65	0.285	0.55	c	4	No	BSL
VOC	108-88-3	Toluene	0.0048	J	0.23		mg/kg	SED-9	2 / 70	0.00072 - 0.43	0.23	500	n	1,000	No	BSL
VOC	76-13-1	Trichlorotrifluoroethane	0.0197	J	0.0197	J	mg/kg	SED-A-2	1 / 38	0.0011 - 0.67	0.0197	--		--	No	BSL
VOC	XYLMP	Xylene, M,P- (sum of isomers) (6)	0.0274		0.0274		mg/kg	SED-A-2	1 / 38	0.0012 - 0.69	0.0274	340	n	--	No	BSL
VOC	95-47-6	Xylene, O-	0.0083	J	0.0083	J	mg/kg	SED-A-2	1 / 38	0.00066 - 0.39	0.0083	380	n	--	No	BSL
VOC	1330-20-7	Xylenes, Mixed	0.0357		0.0357		mg/kg	SED-A-2	1 / 70	0.00066 - 0.39	0.0357	63	n	410	No	BSL

Notes:
(1) Minimum/maximum detected concentration.
(2) Maximum detected concentration used as the screening concentration.
(3) Screening values are USEPA Regional Screening Levels (RSLs) for residential soil (updated November 2010) based on the following endpoints:
- c cancer endpoint and a target cancer risk of 1×10^{-6}
- n non-cancer endpoint and a target hazard quotient of 0.1
- ++ based on USEPA's Integrated Exposure Uptake Biokinetic (IEUBK) model.

(4) Alternate screening values are New Jersey Residential Direct Contact Soil Cleanup Criteria (NJRDCSCC), which are available on-line at http://www.nj.gov/dep/srp/guidance/scc/.
(5) Rationale Codes for selection or exclusion as COPC:

Selection:
- ASL Above screening criteria
- ASL2 Above NJRDCSCC in absence of screening criteria
- NSC No Screening Criteria

Exclusion:
- BSL Below screening criteria
- BSL2 Below NJRDCSCC in absence of screening criteria
- NUT Essential nutrient
- IFD Infrequent exceedance (1 exceedance; not a COPC in any other media)
- IFD Infrequent detection (<5%)

Definitions:
- PCB = Polychlorinated biphenyl
- PEST = Pesticide
- SVOC = Semivolatile organic compound
- VOC = Volatile organic compound
- J = Estimated value
- ft bgs = Feet below ground surface
- mg/kg = Milligrams per kilogram
- COPC = Chemical of potential concern

Table 2.4
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
SOUTH BRANCH CREEK SEDIMENT/BANK SOIL (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	CAS No.	Constituent	Minimum Concentration (1) (Qualifier)	Maximum Concentration (1) (Qualifier)	Units	Location of Maximum	Frequency of Detection	Range of Detection Limits	Screening Concentration (2)	Screening Value (Basis) (3)	Alternate Screening Values (4)	COPC	Rationale (5)

(6) The following surrogate values were used for screening:

- total chromium uses chromium III as a surrogate (see Section 3.2 of the risk assessment)
- total mercury uses elemental mercury as a surrogate (see Section 3.2 of the risk assessment)
- acenaphthylene uses acenaphthene as a surrogate
- benzo(g,h,i)perylene uses pyrene as a surrogate
- phenanthrene uses pyrene as a surrogate
- m,p-xylene (sum of isomers) uses the more stringent of m- and p-xylene as a surrogate

(7) Aroclor results were summed and evaluated as Total PCBs using USEPA's "High Risk and Persistence" cancer potency estimates (see Section 3.2 of the risk assessment).
(8) PCDD or PCDF concentrations were converted to 2,3,7,8-TCDD equivalent concentrations using the WHO 2005 TEF multiplier (see Section 3.2 of the risk assessment).
(9) Carcinogenic PAH concentrations were converted to benzo(a)pyrene equivalent concentrations using USEPA default TEF multipliers (see Section 3.2 of the risk assessment).
(10) Screening values for carbazole is USEPA Region 9 PRG (October 2004) for tapwater.

TABLE 3.1
EXPOSURE POINT CONCENTRATION SUMMARY
SURFACE SOIL (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future
Medium: Surface Soil (0 to 2 ft bgs)
Exposure Medium: Surface Soil (0 to 2 ft bgs)

Exposure Point	Chemical Class	Constituent of Potential Concern	CAS No.	Units	Mean [1]	UCL [2]	Distribution [3]	Maximum (Qualifier) [4]		Exposure Point Concentration			
										Value	Units	EPC Statistic [2]	Rationale [5]
Surface Soil (0 to 2 ft bgs)	Metal	Aluminum	749-90-5	mg/kg	11,976	12,471	N/AG	27,700		12,471	mg/kg	95% Student's-t UCL	UCL-N
	Metal	Antimony	7440-36-0	mg/kg	5.69	12.7	NA	198	J	12.7	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	Metal	Arsenic	7440-38-2	mg/kg	18.0	22.3	NA	331	J	22.3	mg/kg	95% KM (BCA) UCL	UCL-NP
	Metal	Barium	7440-39-3	mg/kg	1,348	1,982	NA	10,500		1,982	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	Metal	Beryllium	7440-41-7	mg/kg	2.16	3.80	NA	27.3	J	3.80	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	Metal	Cadmium	7440-43-9	mg/kg	2.83	3.82	NA	87.5	J	3.82	mg/kg	95% KM (BCA) UCL	UCL-NP
	Metal	Chromium, Hexavalent	18540-29-9	mg/kg	1.50	2.86	N/LN/G	7.30	J	2.86	mg/kg	95% KM (Percentile Bootstrap) UCL	UCL-NP
	Metal	Cobalt	7440-48-4	mg/kg	44.1	61.0	NA	961		61.0	mg/kg	95% KM (BCA) UCL	UCL-NP
	Metal	Copper	7440-50-8	mg/kg	767	1,745	NA	18,000		1,745	mg/kg	97.5% Chebyshev (Mean, Sd) UCL	UCL-NP
	Metal	Iron	7439-89-6	mg/kg	47,633	62,897	NA	374,000		62,897	mg/kg	95% Chebyshev (Mean, Sd) UCL	UCL-NP
	Metal	Lead	7439-92-1	mg/kg	596	1,501	NA	15,450		596	mg/kg	Arithmetic Mean	[6]
	Metal	Manganese	7439-96-5	mg/kg	579	779	NA	4,810	J	779	mg/kg	95% Chebyshev (Mean, Sd) UCL	UCL-NP
	Metal	Mercury (elemental) [7,8]	7439-97-6	mg/kg	46.0	123	NA	787		123	mg/kg	99% KM (Chebyshev) UCL	UCL-NP
	Metal	Mercury (inorganic) [7]	7439-97-6	mg/kg	414	1,103	NA	7,083		1,103	mg/kg	99% KM (Chebyshev) UCL	UCL-NP
	Metal	Nickel	7440-02-0	mg/kg	91.5	148	NA	1,310	J	148	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	Metal	Silver	7440-22-4	mg/kg	1.38	2.31	NA	53.2	J	2.31	mg/kg	95% KM (% Bootstrap) UCL	UCL-NP
	Metal	Vanadium	7440-62-2	mg/kg	47.8	50.5	LN/G	249		50.5	mg/kg	95% KM (BCA) UCL	UCL-NP
	Metal	Zinc	7440-66-6	mg/kg	4,939	13,359	NA	114,000		13,359	mg/kg	97.5% Chebyshev (Mean, Sd) UCL	UCL-NP
	PCB	Total PCBs	NA	mg/kg	1.65	3.97	NA	18.5	J	3.97	mg/kg	99% Chebyshev (Mean, Sd) UCL	UCL-NP
	Dioxin	Dioxin 2,3,7,8-TCDD TEQ	NA	mg/kg	6.98E-06	1.21E-05	LN/G	2.12E-05		1.21E-05	mg/kg	95% Approximate Gamma UCL	UCL-G
	Furan	Furan 2,3,7,8-TCDD TEQ	NA	mg/kg	1.58E-04	4.43E-04	LN/G	8.85E-04		4.43E-04	mg/kg	95% Adjusted Gamma UCL	UCL-G
	SVOC	Benzo(a)pyrene TEQ	NA	mg/kg	0.943	4.16	NA	102	J	4.16	mg/kg	97.5% KM Chebyshev (Mean, Sd) UCL	UCL-NP
	SVOC	Bis(2-Ethylhexyl) Phthalate	117-81-7	mg/kg	1.24	4.07	NA	129	J	4.07	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	SVOC	Dibenzofuran	132-64-9	mg/kg	0.267	0.669	NA	14.2		0.669	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	SVOC	Dichlorobenzene, 1,4-	106-46-7	mg/kg	0.119	0.144	NA	4.17		0.144	mg/kg	95% KM (BCA) UCL	UCL-NP
	SVOC	Hexachlorobenzene	118-74-1	mg/kg	11.0	57.2	NA	1,440		57.2	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	SVOC	Hexachlorobutadiene	87-68-3	mg/kg	0.575	1.97	NA	60.7	J	1.97	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	SVOC	Naphthalene	91-20-3	mg/kg	0.451	0.954	NA	51.2		0.954	mg/kg	95% KM (BCA) UCL	UCL-NP
	VOC	Benzene	71-43-2	mg/kg	0.108	0.520	NA	18.9		0.520	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	VOC	Chloroform	67-66-3	mg/kg	0.0828	0.329	LN	7.22		0.329	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	VOC	Tetrachloroethylene (PCE)	127-18-4	mg/kg	0.0231	0.0348	LN	0.763		0.0348	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	VOC	Trichloroethylene (TCE)	79-01-6	mg/kg	0.571	2.83	NA	62.3	J	2.83	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	VOC	Vinyl Chloride	75-01-4	mg/kg	0.0166	0.0101	N/LN/G	0.0785	J	0.0101	mg/kg	95% KM (Percentile Bootstrap) UCL	UCL-NP

Notes:
(1) Arithmetic mean calculated using one-half the method detection limit (MDL) for non-detect samples.
(2) Upper confidence limit (UCL) on the mean is the recommended UCL calculated using USEPA's ProUCL 4.0 Statistical Software.
(3) At the 5% significance level, data appear to follow the following distributions:
N = Normal LN = Lognormal
NA = Not dsicernible G = Gamma
(4) Maximum detected concentration. "J" qualifier indicates an estimated value.
(5) Rationale Codes:
UCL-N = UCL assuming normal distribution
UCL-LN = UCL assuming lognormal distribution
UCL-G = UCL assuming gamma distribution
UCL-NP = non-parametric UCL
(6) The Adult Lead Model for estimating risk associated with exposure to lead utilizes the arithmetic mean.
(7) Concentrations of total mercury were assumed to be 10% elemental mercury and 90% inorganic mercury based on the results of the mercury speciation analysis.
(8) Elemental mercury was observed in some shallow soils around the brine cell buildings 230 and 240. It was not possible to analyze these samples using conventional methods. Thus, the EPCs do not account for visible elemental mercury. However, it is assumed that areas with visible elemental mercury pose unacceptable risks to potential on-site receptors.

Definitions:
PCB = Polychlorinated biphenyl
SVOC = Semivolatile organic compound
VOC = Volatile organic compound
ft bgs = Feet below ground surface
mg/kg = Milligrams per kilogram

TABLE 3.2
EXPOSURE POINT CONCENTRATION SUMMARY
MIXED SOIL (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Current and Future
Medium: Mixed Soil (0 to 10 ft bgs)
Exposure Medium: Mixed Soil (0 to 10 ft bgs)

Exposure Point	Chemical Class	Constituent of Potential Concern	CAS No.	Units	Detection Frequency HIDE	Mean (1)	UCL (2)	Distribution (3)	Maximum (Qualifier) (4)		Exposure Point Concentration			
											Value	Units	EPC Statistic (2)	Rationale (5)
Mixed Soil (0 to 10 ft bgs)	Metal	Aluminum	749-90-5	mg/kg	212 / 212	11,574	12,025	N/G	27,700		12,025	mg/kg	95% Student's-t UCL	UCL-N
	Metal	Antimony	7440-36-0	mg/kg	50 / 215	8.15	17.4	NA	198	J	17.4	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	Metal	Arsenic	7440-38-2	mg/kg	213 / 215	25.4	41.1	NA	391	J	41.1	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	Metal	Barium	7440-39-3	mg/kg	207 / 209	1,227	1,796	NA	10,500		1,796	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	Metal	Beryllium	7440-41-7	mg/kg	122 / 215	2.06	3.30	NA	27.2	J	3.30	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	Metal	Cadmium	7440-43-9	mg/kg	154 / 215	2.61	4.66	NA	87.5	J	4.66	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	Metal	Chromium, Hexavalent	18540-29-9	mg/kg	9 / 24	1.43	2.42	N/LN/G	7.30	J	2.42	mg/kg	95% KM (t) UCL	UCL-NP
	Metal	Cobalt	7440-48-4	mg/kg	204 / 215	41.0	55.5	NA	961		55.5	mg/kg	95% KM (BCA) UCL	UCL-NP
	Metal	Copper	7440-50-8	mg/kg	208 / 208	706	1,586	NA	18,000		1,586	mg/kg	97.5% Chebyshev (Mean, Sd) UCL	UCL-NP
	Metal	Iron	7439-89-6	mg/kg	215 / 215	45,182	59,607	NA	374,000		59,607	mg/kg	95% Chebyshev (Mean, Sd) UCL	UCL-NP
	Metal	Lead	7439-92-1	mg/kg	215 / 215	581	1,408	NA	15,450		656	mg/kg	Arithmetic Mean	(6)
	Metal	Manganese	7439-96-5	mg/kg	215 / 215	539	715	NA	4,810	J	715	mg/kg	95% Chebyshev (Mean, Sd)	UCL-NP
	Metal	Mercury (elemental) (7,8)	7439-97-6	mg/kg	219 / 219	42.5	114	NA	787		114	mg/kg	99% Chebyshev (Mean, Sd) UCL	UCL-NP
	Metal	Mercury (inorganic) (7)	7439-97-6	mg/kg	219 / 219	383	1,022	NA	7,083		1,022	mg/kg	99% Chebyshev (Mean, Sd) UCL	UCL-NP
	Metal	Nickel	7440-02-0	mg/kg	213 / 215	82.1	102	NA	1,310	J	102	mg/kg	95% KM (BCA) UCL	UCL-NP
	Metal	Silver	7440-22-4	mg/kg	53 / 215	1.29	2.10	N	53.2	J	2.10	mg/kg	95% KM (% Bootstrap) UCL	UCL-NP
	Metal	Vanadium	7440-62-2	mg/kg	213 / 215	42.9	44.8	LN/G	126	J	44.8	mg/kg	95% KM (BCA) UCL	UCL-NP
	Metal	Zinc	7440-66-6	mg/kg	198 / 198	4,256	11,141	NA	113,000	J	11,141	mg/kg	97.5% Chebyshev (Mean, Sd) UCL	UCL-NP
	PCB	Total PCBs	NA	mg/kg	215 / 215	1.40	3.45	NA	21.6	J	3.45	mg/kg	99% Chebyshev (Mean, Sd) UCL	UCL-NP
	Dioxin	Dioxin 2,3,7,8-TCDD TEQ	NA	mg/kg	19 / 19	7.67E-06	1.15E-05	LN/G	2.12E-05		1.15E-05	mg/kg	95% Approximate Gamma UCL	UCL-G
	Furan	Furan 2,3,7,8-TCDD TEQ	NA	mg/kg	19 / 19	1.22E-04	7.23E-04	LN	8.85E-04		7.23E-04	mg/kg	99% Chebyshev (Mean, Sd) UCL	UCL-LN
	SVOC	Benzo(a)pyrene TEQ	NA	mg/kg	215 / 215	0.728	2.35	NA	50.8	J	2.35	mg/kg	97.5% Chebyshev (Mean, Sd) UCL	UCL-NP
	SVOC	Bis(2-Ethylhexyl) Phthalate	117-81-7	mg/kg	169 / 215	1.15	3.78	NA	129	J	3.78	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	SVOC	Chloroaniline, p-	106-47-8	mg/kg	11 / 215	0.215	0.129	N/LN/G	1.75	J	0.129	mg/kg	95% KM (Percentile Bootstrap) UCL	UCL-NP
	SVOC	Dibenzofuran	132-64-9	mg/kg	86 / 215	0.659	2.26	NA	78.0	J	2.26	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	SVOC	Dichlorobenzene, 1,2-	95-50-1	mg/kg	73 / 215	2.07	9.95	NA	388	J	9.95	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	SVOC	Dichlorobenzene, 1,4-	106-46-7	mg/kg	42 / 215	0.535	2.13	NA	79.0	J	2.13	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	SVOC	Hexachlorobenzene	118-74-1	mg/kg	122 / 215	6.84	29.5	NA	720	J	29.5	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	SVOC	Hexachlorobutadiene	87-68-3	mg/kg	36 / 215	1.07	4.94	NA	117	J	4.94	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	SVOC	Methylnaphthalene, 2-	91-57-6	mg/kg	93 / 215	0.685	2.45	NA	86.0	J	2.45	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	SVOC	Naphthalene	91-20-3	mg/kg	124 / 215	1.42	4.65	NA	79.0	J	4.65	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	SVOC	Phenanthrene	85-01-8	mg/kg	182 / 215	1.94	7.33	NA	172	J	7.33	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	SVOC	Trichlorobenzene, 1,2,4-	120-82-1	mg/kg	98 / 215	11.0	58.2	NA	2,321	J	58.2	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	VOC	Benzene	71-43-2	mg/kg	91 / 215	0.532	2.66	NA	71.5	J	2.66	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	VOC	Chlorobenzene	108-90-7	mg/kg	43 / 215	0.285	1.36	LN	37.2	J	1.36	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	VOC	Chloroform	67-66-3	mg/kg	67 / 215	0.222	0.895	NA	22.3	J	0.895	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	VOC	Ethylbenzene	100-41-4	mg/kg	38 / 215	0.0680	0.274	NA	6.65	J	0.274	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	VOC	Methylene chloride	75-09-2	mg/kg	26 / 215	1.66	11.8	NA	345	J	11.8	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	VOC	Tetrachloroethylene (PCE)	127-18-4	mg/kg	29 / 215	0.0614	0.174	NA	3.25	J	0.174	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	VOC	Trichloroethylene (TCE)	79-01-6	mg/kg	28 / 215	0.879	3.77	NA	69.5	J	3.77	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	VOC	Vinyl Chloride	75-01-4	mg/kg	10 / 215	0.0461	0.00892	N/LN/G	0.0785	J	0.00892	mg/kg	95% KM (Percentile Bootstrap) UCL	UCL-NP

Notes:
(1) Arithmetic mean calculated using one-half the method detection limit (MDL) for non-detect samples.
(2) Upper confidence limit (UCL) on the mean is the recommended UCL calculated using USEPA's ProUCL 4.0 Statistical Software.
(3) At the 5% significance level, data appear to follow the following distributions:
N = Normal LN = Lognormal
NA = Not dsicernible G = Gamma
(4) Maximum detected concentration. "J" qualifier indicates an estimated value.
(5) Rationale Codes:
UCL-N = UCL assuming normal distribution
UCL-LN = UCL assuming lognormal distribution
UCL-G = UCL assuming gamma distribution
UCL-NP = non-parametric UCL
(6) The Adult Lead Model for estimating risk associated with exposure to lead utilizes the arithmetic mean.
(7) Concentrations of total mercury were assumed to be 10% elemental mercury and 90% inorganic mercury based on the results of the mercury speciation analysis.

(8) Elemental mercury was observed in some shallow soils around the brine cell buildings 230 and 240. It was not possible to analyze these samples using conventional methods. Thus, the EPCs do not account for visible elemental mercury. However, it is assumed that areas with visible elemental mercury pose unacceptable risks to potential on-site receptors.

Definitions:
PCB = Polychlorinated biphenyl
SVOC = Semivolatile organic compound
VOC = Volatile organic compound
ft bgs = Feet below ground surface
mg/kg = Milligrams per kilogram

TABLE 3.3
EXPOSURE POINT CONCENTRATION SUMMARY
OVERBURDEN GROUNDWATER
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Current/Future
Medium: Groundwater
Exposure Medium: Groundwater

Exposure Point	Chemical Class	Constituent of Potential Concern	Units	Mean (1)	Maximum (Qualifier) (2)		Exposure Point Concentration (EPC)			
							Value	Units	EPC Statistic (3)	Rationale
Overburden Groundwater	Metal	Antimony	µg/L	7.35	6.0	J	6.0	µg/L	Maximum	(5)
	Metal	Arsenic	µg/L	67.4	275	J	275	µg/L	Maximum	
	Metal	Barium	µg/L	983.9	14,200		14,200	µg/L	Maximum	
	Metal	Cadmium	µg/L	4.785	22.9		22.9	µg/L	Maximum	
	Metal	Cobalt	µg/L	45.75	190		190	µg/L	Maximum	
	Metal	Iron	µg/L	32,814	346,000		346,000	µg/L	Maximum	
	Metal	Manganese	µg/L	11,901	219,000		219,000	µg/L	Maximum	
	Metal	Mercury	µg/L	14.25	233		233	µg/L	Maximum	
	Metal	Methyl Mercury	µg/L	56.01	168		168	µg/L	Maximum	
	Metal	Vanadium	µg/L	43.28	136	J	136	µg/L	Maximum	
	Metal	Zinc	µg/L	138.10	1,690		1,690	µg/L	Maximum	
	Metal	Cyanide	µg/L	11.63	77		77	µg/L	Maximum	
	Dioxin	Dioxin 2,3,7,8-TCDD TEQ	µg/L	1.9E-05	1.9E-05		1.9E-05	µg/L	Maximum	
	Furan	Furan 2,3,7,8-TCDD TEQ	µg/L	1.6E-04	1.6E-04		1.6E-04	µg/L	Maximum	
	SVOC	Benz(a)anthracene	µg/L	0.077	0.775		0.775	µg/L	Maximum	
	SVOC	Carbazole	µg/L	9.164	143		143	µg/L	Maximum	
	SVOC	Chloroaniline, p-	µg/L	768.67	4,460	J	4,460	µg/L	Maximum	
	SVOC	Chlorophenol, 2-	µg/L	2.95	26.1		26.1	µg/L	Maximum	
	SVOC	Dibenzofuran	µg/L	1.87	16.2		16.2	µg/L	Maximum	
	SVOC	Dichlorobenzene, 1,2-	µg/L	410.1	4,220		4,220	µg/L	Maximum	
	SVOC	Dichlorobenzene, 1,3-	µg/L	41.70	199		199	µg/L	Maximum	
	SVOC	Dichlorobenzene, 1,4-	µg/L	73.42	582		582	µg/L	Maximum	
	SVOC	Dichlorophenol, 2,4-	µg/L	2.224	11.7		11.7	µg/L	Maximum	
	SVOC	Hexachlorobenzene	µg/L	0.06	1.0		1.0	µg/L	Maximum	
	SVOC	Naphthalene	µg/L	72.38	561		561	µg/L	Maximum	
	SVOC	Nitrobenzene	µg/L	3.104	55	J	55	µg/L	Maximum	
	SVOC	Pentachlorophenol	µg/L	0.251	1.87		1.87	µg/L	Maximum	
	SVOC	Trichlorobenzene, 1,2,4-	µg/L	17.73	285		285	µg/L	Maximum	
	VOC	Benzene	µg/L	94.36	848		848	µg/L	Maximum	
	VOC	Chlorobenzene	µg/L	1,450	16,200		16,200	µg/L	Maximum	
	VOC	Chloroform	µg/L	0.557	3.5		3.5	µg/L	Maximum	
	VOC	Dichloroethane, 1,1-	µg/L	0.502	2.6		2.6	µg/L	Maximum	
	VOC	Dichloroethane, 1,2-	µg/L	0.537	1.8		1.8	µg/L	Maximum	
	VOC	Ethylbenzene	µg/L	3.768	30.4		30.4	µg/L	Maximum	
	VOC	Methylene Chloride	µg/L	103.6	1,960		1,960	µg/L	Maximum	
	VOC	Tetrachloroethylene (PCE)	µg/L	0.717	6.9	J	6.9	µg/L	Maximum	
	VOC	Vinyl Chloride	µg/L	0.50	0.71	J	0.71	µg/L	Maximum	
	VOC	Xylenes, Mixed	µg/L	12.38	128		128	µg/L	Maximum	

Notes:
(1) Arithmetic mean calculated using one-half the method detection limit (MDL) for non-detect results.
(2) Upper Confidence Limit (UCL) on the mean. UCL is the statistic recommended by USEPA's ProUCL Statistical Software (Version 4.0).
(3) At the 5% significance level, data appear to follow the following distributions:
N = Normal LN = Lognormal
NA = Not dsicernible (A)G = (Approximate) Gamma
(2) Maximum detected concentration. "J" indicates an estimated value.
(3) It was assumed receptors may ingest groundwater from a well installed at a particular location or may have direct contact with groundwater in a construction/utility trench at a particular location. Therefore, the maximum on-site concentration was conservatively selected as the groundwater EPC.

Definitions:
SVOC = Semivolatile organic compound
VOC = Volatile organic compound
J = Estimated value
µg/L Micrograms per liter

TABLE 3.4
EXPOSURE POINT CONCENTRATION SUMMARY
SOUTH BRANCH CREEK SEDIMENT/BANK SOIL (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Current/Future
Medium: Surficial Sediment/ Bank Soil (0 to 0.5 ft bgs)
Exposure Medium: Surficial Sediment/Bank Soil (0 to 0.5 ft bgs)

Exposure Point	Chemical Class	Constituent of Potential Concern	CAS No.	Units	Mean (1)	UCL (2)	Distribution (3)	Maximum (Qualifier) (4)	Exposure Point Concentration			
									Value	Units	EPC Statistic (2)	Rationale (5)
Surficial Sediment/ Bank Soil (0 to 0.5 ft bgs) in/along SBC	Metal	Aluminum	749-90-5	mg/kg	12,171	13,299	N/LN/G	29,300 J	13,299	mg/kg	95% Student's-t UCL	UCL-N
	Metal	Antimony	7440-36-0	mg/kg	2.09	5.24	N/LN/G	6.00	5.24	mg/kg	95% KM (Percentile Booststrap) UCL	UCL-NP
	Metal	Arsenic	7440-38-2	mg/kg	257	395	LN	5,460 J	395	mg/kg	95% H-UCL	UCL-LN
	Metal	Barium	7440-39-3	mg/kg	5,749	7,090	G	18,700	7,090	mg/kg	95% Approximate Gamma UCL	UCL-G
	Metal	Cadmium	7440-43-9	mg/kg	22.9	43.1	LN/G	240	43.1	mg/kg	95% KM (Chebyshev) UCL	UCL-NP
	Metal	Chromium, Hexavalent	18540-29-9	mg/kg	2.62	3.88	N/LN/G	7.50	3.88	mg/kg	95% KM (Percentile Booststrap) UCL	UCL-NP
	Metal	Cobalt	7440-48-4	mg/kg	8.81	9.90	NA	26.1	9.90	mg/kg	95% KM (% Bootstrap) UCL	UCL-NP
	Metal	Copper	7440-50-8	mg/kg	213	315	LN	1,100	315	mg/kg	95% H-UCL	UCL-LN
	Metal	Iron	7439-89-6	mg/kg	33,327	37,926	LN	247,000	37,926	mg/kg	95% H-UCL	UCL-LN
	Metal	Lead	7439-92-1	mg/kg	418	531	LN/AG	3,950	418	mg/kg	Arithmetic Mean	(6)
	Metal	Manganese	7439-96-5	mg/kg	245	290	LN	1,300	290	mg/kg	95% H-UCL	UCL-LN
	Metal	Mercury (elemental) (7)	7439-97-6	mg/kg	32.2	101	NA	305	101	mg/kg	99% Chebyshev (Mean, Sd) UCL	UCL-NP
	Metal	Mercury (inorganic) (7)	7439-97-6	mg/kg	290	913	NA	2,745	913	mg/kg	99% Chebyshev (Mean, Sd) UCL	UCL-NP
	Metal	Vanadium	7440-62-2	mg/kg	42.4	48.5	LN/AG	129	48.5	mg/kg	95% Approximate Gamma UCL	UCL-G
	Metal	Zinc	7440-66-6	mg/kg	1,219	1,568	LN/G	8,020	1,568	mg/kg	95% Approximate Gamma UCL	UCL-G
	PCB	Total PCBs	NA	mg/kg	0.182	0.519	NA	2.74	0.519	mg/kg	97.5% Chebyshev (Mean, Sd) UCL	UCL-NP
	Dioxin	Dioxin 2,3,7,8-TCDD TEQ	NA	mg/kg	1.3E-05	2.6E-05	LN	9.5E-05	2.6E-05	mg/kg	95% Chebyshev (MVUE) UCL	UCL-LN
	Furan	Furan 2,3,7,8-TCDD TEQ	NA	mg/kg	6.6E-05	1.1E-04	G	2.0E-04	1.1E-04	mg/kg	95% Approximate Gamma UCL	UCL-G
	SVOC	Benzo(a)pyrene TEQ	NA	mg/kg	0.476	0.603	LN	4.46	0.603	mg/kg	95% H-UCL	UCL-LN
	SVOC	Dichlorobenzene, 1,4-	106-46-7	mg/kg	0.454	2.05	LN	15.1	2.05	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	SVOC	Hexachlorobenzene	118-74-1	mg/kg	0.065	0.071	LN/G	0.547	0.071	mg/kg	95% KM (t) UCL	UCL-NP
	VOC	Chlorobenzene	108-90-7	mg/kg	1.82	13.1	LN	120	13.1	mg/kg	97.5% KM (Chebyshev) UCL	UCL-NP
	VOC	Chloroform	67-66-3	mg/kg	0.051	0.442	N/LN/G	0.978 J	0.442	mg/kg	95% KM (Percentile Booststrap) UCL	UCL-NP

Notes:
(1) Arithmetic mean calculated using one-half the method detection limit (MDL) for non-detect samples.
(2) Upper confidence limit (UCL) on the mean is the recommended UCL calculated using USEPA's ProUCL 4.0 Statistical Software.
(3) At the 5% significance level, data appear to follow the following distributions:
N = Normal LN = Lognormal AG = Approximate Gamma
NA = Not dsicernible G = Gamma
(4) Maximum detected concentration. "J" qualifier indicates an estimated value.
(5) Rationale Codes:
UCL-N = UCL assuming normal distribution
UCL-LN = UCL assuming lognormal distribution
UCL-G = UCL assuming gamma distribution
UCL-NP = non-parametric UCL
(6) The Adult Lead Model for estimating risk associated with exposure to lead utilizes the arithmetic mean.
(7) Concentrations of total mercury were assumed to be 10% elemental mercury and 90% inorganic mercury based on the results of the mercury speciation analysis.

Definitions:
PCB = Polychlorinated biphenyl
SVOC = Semivolatile organic compound
VOC = Volatile organic compound
ft bgs = Feet below ground surface
mg/kg = Milligrams per kilogram

TABLE 4.1a.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS - RME
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Timeframe: Future
Medium: Surface Soil (0 to 2 ft bgs)
Exposure Medium: Surface Soil (0 to 2 ft bgs)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)/ Average Daily Exposure (ADE)	
Ingestion	Commercial/ Industrial Worker	Adult	Surface Soil (0 to 2 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.1	ADD_{ING} (mg/kg-day) =	$\frac{CS \times IR\text{-}S \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR_{Soil}	Ingestion Rate - Soil	100	mg/day	USEPA, 2002 (1)		
				FI	Fraction from Site	1	--	BPJ (2)		
				EF	Exposure Frequency	250	days/year	USEPA, 2002 (3)		
				ED	Exposure Duration	25	years	USEPA, 2004 (4)		
				CF	Conversion Factor	1.0E-06	kg/mg	--		
				BW	Body Weight	70	kg	USEPA, 1991 (5)		
				AT_C	Avg. Time - Cancer	25,550	days	USEPA, 1989 (6)		
				AT_{NC}	Avg. Time - Non-Cancer	9,125	days	USEPA, 1989 (7)		
Dermal	Commercial/ Industrial Worker	Adult	Surface Soil (0 to 2 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.1	ADD_{DERM} (mg/kg-day) =	$\frac{CS \times SA \times AF \times DAF \times EF \times ED \times CF}{BW \times AT}$
				CFs	Conversion Factor	1.0E-06	kg/mg	--		
				SA	Skin Surface Area	3,300	cm^2	USEPA, 2004 (8)		
				AF	Soil-to-Skin Adherence Factor	0.2	mg/cm^2	USEPA, 2002 (9)		
				DAF	Dermal Absorption Factor	chemical-specific	unitless	--		
				EF	Exposure Frequency	250	days/year	USEPA, 2002 (3)		
				ED	Exposure Duration	25	years	USEPA, 2004 (4)		
				BW	Body Weight	70	kg	USEPA, 1991 (5)		
				AT_C	Avg. Time - Cancer	25,550	day	USEPA, 1989 (6)		
				AT_{NC}	Avg. Time - Non-Cancer	9,125	day	USEPA, 1989 (7)		
Inhalation	Commercial/ Industrial Worker	Adult	Particulates/ Vapors in Outdoor Air	CA	Concentration in Air	chemical-specific	mg/m^3	CS x (1/PEF + 1/VF)	ADE_{CA} ($\mu g/m^3$) =	$\frac{CA \times CFa \times EF \times ED \times ET \times CFt \times CFa}{AT_C}$
				EF	Exposure Frequency	250	days/year	USEPA, 2002 (3)		
				ED	Exposure Duration	25	years	USEPA, 2004 (4)		
				ET	Exposure Time	8	hrs/day	USEPA, 1991 (10)		
				CFt	Conversion Factor - time	1/24	day/hrs	--	ADE_{NC} (mg/m^3) =	$\frac{CA \times EF \times ED \times ET \times CFt}{AT_{NC}}$
				CFa	Conversion Factor - air	1.0E+03	µg/mg	--		
				VF	Volatilization Factor	chemical-specific	m^3/kg	--		
				PEF	Particulate Emission Factor	6.75E+08	m^3/kg	USEPA, 1996 (11)		
				AT_C	Averaging Time - Cancer	25,550	days	USEPA, 1989 (6)		
				AT_{NC}	Averaging Time - Non-Cancer	9,125	days	USEPA, 1989 (7)		

Notes:
(1) Soil ingestion rate - outdoor worker
(2) Assumes 100% of daily soil ingestion occurs at the site
(3) Default exposure frequency - indoor worker
(4) Default RME exposure duration - indoor/outdoor worker
(5) Default adult body weight
(6) 70-year lifetime x 365 days/year
(7) ED (years) x 365 days/year
(8) Default outdoor worker value; based on median surface area occupied by 1/3 of the head, forearms, and hands for the average male and female adult.
(9) Default value for outdoor workers
(10) Assumes 5-day, 40-hour work week
(11) Site-specific Particulate Emission Factor based on a 30-acre site in Philadelphia, Pennsylvania (Q/C value = 46.59 g/m^2-s per kg/m^3)

Sources:
BPJ - best professional judgment.
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1991. Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual, Supplemental Guidance: Standad Default Exposure Factors. Interim Final. Office of Emergency and Remedial Response. OSWER Directive 9285.6-03.
USEPA, 1996. Soil Screening Guidance: Technical Background Document. Office of Solid Waste and Emergency Response, Washington, DC. EPA/540/R-95/128.
USEPA, 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Emergency and Remedial Response. OSWER 9355.4-24. December.
USEPA, 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment). EPA/540/R/99/005. July.

TABLE 4.1a.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS - CTE
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Timeframe: Future
Medium: Surface Soil (0 to 2 ft bgs)
Exposure Medium: Surface Soil (0 to 2 ft bgs)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)/ Average Daily Exposure (ADE)
Ingestion	Commercial/ Industrial Worker	Adult	Surface Soil (0 to 2 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.1	ADD_{ING} (mg/kg-day) = $\frac{CS \times IR\text{-}S \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR_{Soil}	Ingestion Rate - Soil	50	mg/day	USEPA, 2002 (1)	
				FI	Fraction from Site	1	--	BPJ (2)	
				EF	Exposure Frequency	225	days/year	USEPA, 2002 (3)	
				ED	Exposure Duration	9	years	USEPA, 2004 (4)	
				CF	Conversion Factor	1.0E-06	kg/mg	--	
				BW	Body Weight	70	kg	USEPA, 1991 (5)	
				AT_C	Avg. Time - Cancer	25,550	days	USEPA, 1989 (6)	
				AT_{NC}	Avg. Time - Non-Cancer	3,285	days	USEPA, 1989 (7)	
Dermal	Commercial/ Industrial Worker	Adult	Surface Soil (0 to 2 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.1	ADD_{DERM} (mg/kg-day) = $\frac{CS \times SA \times AF \times DAF \times EF \times ED \times CF}{BW \times AT}$
				CF	Conversion Factor	1.0E-06	kg/mg	--	
				SA	Skin Surface Area	3,300	cm^2	USEPA, 2004 (8)	
				AF	Soil-to-Skin Adherence Factor	0.2	mg/cm^2	USEPA, 2002 (9)	
				DAF	Dermal Absorption Factor	chemical-specific	unitless	--	
				EF	Exposure Frequency	225	days/year	USEPA, 2002 (3)	
				ED	Exposure Duration	9	years	USEPA, 2004 (4)	
				BW	Body Weight	70	kg	USEPA, 1991 (5)	
				AT_C	Avg. Time - Cancer	25,550	day	USEPA, 1989 (6)	
				AT_{NC}	Avg. Time - Non-Cancer	3,285	day	USEPA, 1989 (7)	
Inhalation	Commercial/ Industrial Worker	Adult	Particulates/ Vapors in Outdoor Air	CA	Concentration in Air	chemical-specific	mg/m^3	CS x (1/PEF + 1/VF)	ADE_{CA} ($\mu g/m^3$) = $\frac{CA \times CFa \times EF \times ED \times ET \times CFt \times CFa}{AT_C}$
				EF	Exposure Frequency	225	days/year	USEPA, 2002 (3)	
				ED	Exposure Duration	9	years	USEPA, 2004 (4)	
				ET	Exposure Time	8	hrs/day	USEPA, 1991 (10)	
				CFt	Conversion Factor - time	1/24	day/hrs	--	ADE_{NC} (mg/m^3) = $\frac{CA \times EF \times ED \times ET \times CFt}{AT_{NC}}$
				CFa	Conversion Factor - air	1.0E+03	µg/mg	--	
				VF	Volatilization Factor	chemical-specific	m^3/kg	--	
				PEF	Particulate Emission Factor	6.75E+08	m^3/kg	USEPA, 1996 (11)	
				AT_C	Averaging Time - Cancer	25,550	days	USEPA, 1989 (6)	
				AT_{NC}	Averaging Time - Non-Cancer	2,409	days	USEPA, 1989 (7)	

Notes:
(1) Soil ingestion rate - indoor worker
(2) Assumes 100% of daily soil ingestion occurs at the site
(3) Default exposure frequency - outdoor worker
(4) Default RME exposure duration - indoor/outdoor worker
(5) Default adult body weight
(6) 70-year lifetime x 365 days/year
(7) ED (years) x 365 days/year
(8) Default outdoor worker value; based on median surface area occupied by 1/3 of the head, forearms, and hands for the average male and female adult.
(9) Default value for outdoor workers
(10) Assumes 5-day, 40-hour work week
(11) Site-specific Particulate Emission Factor based on a 30-acre site in Philadelphia, Pennsylvania (Q/C value = 46.59 g/m^2-s per kg/m^3)

Sources:
BPJ - best professional judgment.
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1991. Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual, Supplemental Guidance: Standad Default Exposure Factors. Interim Final. Office of Emergency and Remedial Response. OSWER Directive 9285.6-03.
USEPA, 1996. Soil Screening Guidance: Technical Background Document. Office of Solid Waste and Emergency Response, Washington, DC. EPA/540/R-95/128.
USEPA, 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Emergency and Remedial Response. OSWER 9355.4-24. December.
USEPA, 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment). EPA/540/R/99/005. July.

TABLE 4.1b.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS - RME
FUTURE COMMERCIAL/INDUSTRIAL WORKER - GROUNDWATER
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Timeframe: Future
Medium: Groundwater
Exposure Medium: Overburden Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)
Ingestion	Commercial/ Industrial Worker Worker	Adult	Overburden Groundwater	C_{GW}	Chemical Concentration in Groundwater	chemical-specific	µg/L	See Table 3.3	ADD_{ING-GW} (mg/kg-day) = $\frac{C_{GW} \times IR_W \times EF \times ED \times CF_W}{BW \times AT}$
				CF_W	Conversion Factor	1.0E-03	mg/µg	--	
				IR_{GW}	Ingestion Rate - Groundwater	1	L/day	USEPA, 1991 (1)	
				EF	Exposure Frequency	250	days/year	USEPA, 2002 (2)	
				ED	Exposure Duration	25	years	USEPA, 2004 (3)	
				BW	Body Weight	70	kg	USEPA, 1991 (4)	
				AT_C	Avg. Time - Cancer	25,550	days	USEPA, 1989 (5)	
				AT_{NC}	Averaging Time - Non-Cancer	9,125	days	USEPA, 1989 (6)	

Notes:
(1) Default commercial/industrial groundwater ingestion rate
(2) Default exposure frequency - indoor worker
(3) Default exposure duration - indoor/outdoor worker
(4) Default adult body weight
(5) 70-year lifetime x 365 days/year
(6) ED (years) x 365 days/year

Sources:
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1991. Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual, Supplemental Guidance: Standad Default Exposure Factors. Interim Final. Office of Emergency and Remedial Response. OSWER Directive 9285.6-03.
USEPA, 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Emergency and Remedial Response. OSWER 9355.4-24. December.
USEPA, 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment). EPA/540/R/99/005. July.

TABLE 4.1b.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS - CTE
FUTURE COMMERCIAL/INDUSTRIAL WORKER - GROUNDWATER
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Timeframe: Future
Medium: Groundwater
Exposure Medium: Overburden Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)
Ingestion	Commercial/ Industrial Worker Worker	Adult	Overburden Groundwater	C_{GW}	Chemical Concentration in Groundwater	chemical-specific	µg/L	See Table 3.3	ADD_{ING-GW} (mg/kg-day) = $\frac{C_{GW} \times IR\text{-}W \times EF \times ED \times CF_2}{BW \times AT}$
				CF_2	Conversion Factor	1.0E-03	mg/µg	--	
				IR_{GW}	Ingestion Rate - Groundwater	1	L/day	USEPA, 1991 (1)	
				EF	Exposure Frequency	225	days/year	USEPA, 2002 (2)	
				ED	Exposure Duration	9	years	USEPA, 2004 (3)	
				BW	Body Weight	70	kg	USEPA, 1991 (4)	
				AT_C	Avg. Time - Cancer	25,550	days	USEPA, 1989 (5)	
				AT_{NC}	Averaging Time - Non-Cancer	3,285	days	USEPA, 1989 (6)	

Notes:
(1) Default commercial/industrial groundwater ingestion rate
(2) Default exposure frequency - indoor worker
(3) Default exposure duration - indoor/outdoor worker
(4) Default adult body weight
(5) 70-year lifetime x 365 days/year
(6) ED (years) x 365 days/year

Sources:
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1991. Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual, Supplemental Guidance: Standad Default Exposure Factors. Interim Final. Office of Emergency and Remedial Response. OSWER Directive 9285.6-03.
USEPA, 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Emergency and Remedial Response. OSWER 9355.4-24. December.
USEPA, 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment). EPA/540/R/99/005. July.

TABLE 4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS - RME
FUTURE SITE-SPECIFIC WORKER - SURFACE SOIL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Timeframe: Future
Medium: Surface Soil (0 to 2 ft bgs)
Exposure Medium: Surface Soil (0 to 2 ft bgs)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)/ Average Daily Exposure (ADE)	
Ingestion	Site-Specific Worker	Adult	Surface Soil (0 to 2 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.1	ADD_{ING} (mg/kg-day) =	$\frac{CS \times IR\text{-}S \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR_{Soil}	Ingestion Rate - Soil	100	mg/day	USEPA, 2002 (1)		
				FI	Fraction from Site	1	--	BPJ (2)		
				EF	Exposure Frequency	100	days/year	BPJ (3)		
				ED	Exposure Duration	25	years	USEPA, 2004 (4)		
				CF	Conversion Factor	1.0E-06	kg/mg	--		
				BW	Body Weight	70	kg	USEPA, 1991 (5)		
				AT_C	Avg. Time - Cancer	25,550	days	USEPA, 1989 (6)		
				AT_{NC}	Avg. Time - Non-Cancer	9,125	days	USEPA, 1989 (7)		
Dermal	Site-Specific Worker	Adult	Surface Soil (0 to 2 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.1	ADD_{DERM} (mg/kg-day) =	$\frac{CS \times SA \times AF \times DAF \times EF \times ED \times CF}{BW \times AT}$
				CF	Conversion Factor	1.0E-06	kg/mg	--		
				SA	Skin Surface Area	3,300	cm^2	USEPA, 2004 (8)		
				AF	Soil-to-Skin Adherence Factor	0.2	mg/cm^2	USEPA, 2002 (9)		
				DAF	Dermal Absorption Factor	chemical-specific	unitless	--		
				EF	Exposure Frequency	100	days/year	BPJ (3)		
				ED	Exposure Duration	25	years	USEPA, 2004 (4)		
				BW	Body Weight	70	kg	USEPA, 1991 (5)		
				AT_C	Avg. Time - Cancer	25,550	day	USEPA, 1989 (6)		
				AT_{NC}	Avg. Time - Non-Cancer	9,125	day	USEPA, 1989 (7)		
Inhalation	Site-Specific Worker	Adult	Particulates/ Vapors in Outdoor Air	CA	Concentration in Air	chemical-specific	mg/m^3	CS x (1/PEF + 1/VF)	ADE_{CA} ($\mu g/m^3$) =	$\frac{CA \times CFa \times EF \times ED \times ET \times CFt \times CFa}{AT_C}$
				EF	Exposure Frequency	100	days/year	BPJ (3)		
				ED	Exposure Duration	25	years	USEPA, 2004 (4)		
				ET	Exposure Time	8	hrs/day	BPJ (10)		
				CFt	Conversion Factor - time	1/24	day/hrs	--	ADE_{NC} (mg/m^3) =	$\frac{CA \times EF \times ED \times ET \times CFt}{AT_{NC}}$
				CFa	Conversion Factor - air	1.0E+03	µg/mg	--		
				VF	Volatilization Factor	chemical-specific	m^3/kg	--		
				PEF	Particulate Emission Factor	6.75E+08	m^3/kg	USEPA, 1996 (11)		
				AT_C	Averaging Time - Cancer	25,550	days	USEPA, 1989 (6)		
				AT_{NC}	Averaging Time - Non-Cancer	9,125	days	USEPA, 1989 (7)		

Notes:
(1) Default soil ingestion rate - outdoor worker
(2) Assumes 100% of daily soil ingestion occurs at the site
(3) Assumes 2 days per week for 50 weeks
(4) Default RME exposure duration - indoor/outdoor worker
(5) Default adult body weight
(6) 70-year lifetime x 365 days/year
(7) ED (years) x 365 days/year
(8) Default outdoor worker value; based on median surface area occupied by 1/3 of the head, forearms, and hands for the average male and female adult.
(9) Default value for outdoor workers
(10) Assumes 5-day, 40-hour work week
(11) Site-specific Particulate Emission Factor based on a 30-acre site in Philadelphia, Pennsylvania (Q/C value = 46.59 g/m^2-s per kg/m^3)

Sources:
BPJ - best professional judgment.
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1991. Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual, Supplemental Guidance: Standad Default Exposure Factors. Interim Final. Office of Emergency and Remedial Response. OSWER Directive 9285.6-03.
USEPA, 1996. Soil Screening Guidance: Technical Background Document. Office of Solid Waste and Emergency Response, Washington, DC. EPA/540/R-95/128.
USEPA, 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Emergency and Remedial Response. OSWER 9355.4-24. December.
USEPA, 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment). EPA/540/R/99/005. July.

TABLE 4.2.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS - CTE
FUTURE SITE-SPECIFIC WORKER - SURFACE SOIL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Timeframe: Future
Medium: Surface Soil (0 to 2 ft bgs)
Exposure Medium: Surface Soil (0 to 2 ft bgs)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)/ Average Daily Exposure (ADE)	
Ingestion	Site-Specific Worker	Adult	Surface Soil (0 to 2 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.1	ADD_{ING} (mg/kg-day) =	$\frac{CS \times IR\text{-}S \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR_{Soil}	Ingestion Rate - Soil	50	mg/day	USEPA, 2002 (1)		
				FI	Fraction from Site	1	--	BPJ (2)		
				EF	Exposure Frequency	50	days/year	BPJ (3)		
				ED	Exposure Duration	9	years	USEPA, 2004 (4)		
				CF	Conversion Factor	1.0E-06	kg/mg	--		
				BW	Body Weight	70	kg	USEPA, 1991 (5)		
				AT_C	Avg. Time - Cancer	25,550	days	USEPA, 1989 (6)		
				AT_{NC}	Avg. Time - Non-Cancer	3,285	days	USEPA, 1989 (7)		
Dermal	Site-Specific Worker	Adult	Surface Soil (0 to 2 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.1	ADD_{DERM} (mg/kg-day) =	$\frac{CS \times SA \times AF \times DAF \times EF \times ED \times CF}{BW \times AT}$
				CF	Conversion Factor	1.0E-06	kg/mg	--		
				SA	Skin Surface Area	3,300	cm^2	USEPA, 2004 (8)		
				AF	Soil-to-Skin Adherence Factor	0.2	mg/cm^2	USEPA, 2002 (9)		
				DAF	Dermal Absorption Factor	chemical-specific	unitless	--		
				EF	Exposure Frequency	50	days/year	BPJ (3)		
				ED	Exposure Duration	9	years	USEPA, 2004 (4)		
				BW	Body Weight	70	kg	USEPA, 1991 (5)		
				AT_C	Avg. Time - Cancer	25,550	day	USEPA, 1989 (6)		
				AT_{NC}	Avg. Time - Non-Cancer	3,285	day	USEPA, 1989 (7)		
Inhalation	Site-Specific Worker	Adult	Particulates/ Vapors in Outdoor Air	CA	Concentration in Air	chemical-specific	mg/m^3	CS x (1/PEF + 1/VF)	ADE_{CA} ($\mu g/m^3$) =	$\frac{CA \times CFa \times EF \times ED \times ET \times CFt \times CFa}{AT_C}$
				EF	Exposure Frequency	50	days/year	BPJ (3)		
				ED	Exposure Duration	9	years	USEPA, 2004 (4)		
				ET	Exposure Time	8	hrs/day	BPJ (10)		
				CFt	Conversion Factor - time	1/24	day/hrs	--	ADE_{NC} (mg/m^3) =	$\frac{CA \times EF \times ED \times ET \times CFt}{AT_{NC}}$
				CFa	Conversion Factor - air	1.0E+03	µg/mg	--		
				VF	Volatilization Factor	chemical-specific	m^3/kg	--		
				PEF	Particulate Emission Factor	6.75E+08	m^3/kg	USEPA, 1996 (11)		
				AT_C	Averaging Time - Cancer	25,550	days	USEPA, 1989 (6)		
				AT_{NC}	Averaging Time - Non-Cancer	3,285	days	USEPA, 1989 (7)		

Notes:
(1) Soil ingestion rate - indoor worker
(2) Assumes 100% of daily soil ingestion occurs at the site
(3) Assumes 1 day per week for 50 weeks
(4) Median occupational tenure for men and women 16 years and older when age is unknown
(5) Default adult body weight
(6) 70-year lifetime x 365 days/year
(7) ED (years) x 365 days/year
(8) Default outdoor worker value; based on median surface area occupied by 1/3 of the head, forearms, and hands for the average male and female adult.
(9) Default value for outdoor workers
(10) Assumes 5-day, 40-hour work week
(11) Site-specific Particulate Emission Factor based on a 30-acre site in Philadelphia, Pennsylvania (Q/C value = 46.59 g/m^2-s per kg/m^3)

Sources:
BPJ - best professional judgment.
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1991. Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual, Supplemental Guidance: Standad Default Exposure Factors. Interim Final. Office of Emergency and Remedial Response. OSWER Directive 9285.6-03.
USEPA, 1996. Soil Screening Guidance: Technical Background Document. Office of Solid Waste and Emergency Response, Washington, DC. EPA/540/R-95/128.
USEPA, 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Emergency and Remedial Response. OSWER 9355.4-24. December.
USEPA, 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment). EPA/540/R/99/005. July.

TABLE 4.3a.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS - RME
FUTURE CONSTRUCTION WORKER - MIXED SOIL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Timeframe: Future
Medium: Mixed Soil (0 to 10 ft bgs)
Exposure Medium: Mixed Soil (0 to 10 ft bgs)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)/ Average Daily Exposure (ADE)	
Ingestion	Construction Worker	Adult	Mixed Soil (0 to 10 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.2	ADD_{ING} (mg/kg-day) =	$\frac{CS \times IR\text{-}S \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR_{Soil}	Ingestion Rate - Soil	330	mg/day	USEPA, 2002 (1)		
				FI	Fraction from Site	1	--	BPJ (2)		
				EF	Exposure Frequency	130	days/year	BPJ (3)		
				ED	Exposure Duration	1	years	BPJ (4)		
				CF	Conversion Factor	1.0E-06	kg/mg	--		
				BW	Body Weight	70	kg	USEPA, 1991 (5)		
				AT_C	Avg. Time - Cancer	25,550	days	USEPA, 1989 (6)		
				AT_{NC}	Avg. Time - Non-Cancer	365	days	USEPA, 1989 (7)		
Dermal	Construction Worker	Adult	Mixed Soil (0 to 10 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.2	ADD_{DERM} (mg/kg-day) =	$\frac{CS \times SA \times AF \times DAF \times EF \times ED \times CF}{BW \times AT}$
				CF	Conversion Factor	1.0E-06	kg/mg	--		
				SA	Skin Surface Area	3,300	cm^2	USEPA, 2002 (8)		
				AF	Soil-to-Skin Adherence Factor	0.3	mg/cm^2	USEPA, 2002 (9)		
				DAF	Dermal Absorption Factor	chemical-specific	unitless	--		
				EF	Exposure Frequency	130	days/year	BPJ (3)		
				ED	Exposure Duration	1	years	BPJ (4)		
				BW	Body Weight	70	kg	USEPA, 1991 (5)		
				AT_C	Avg. Time - Cancer	25,550	day	USEPA, 1989 (6)		
				AT_{NC}	Avg. Time - Non-Cancer	365	day	USEPA, 1989 (7)		
Inhalation	Construction Worker	Adult	Particulates/ Vapors in Outdoor Air	CA	Concentration in Air	chemical-specific	mg/m^3	CS x (1/PEF + 1/VF)	ADE_{CA} ($\mu g/m^3$) =	$\frac{CA \times CFa \times EF \times ED \times ET \times CFt \times CFa}{AT_C}$
				EF	Exposure Frequency	130	days/year	BPJ (3)		
				ED	Exposure Duration	1	years	BPJ (4)		
				ET	Exposure Time	8	hrs/day	USEPA, 1991 (10)		
				CFt	Conversion Factor - time	1/24	day/hrs	--	ADE_{NC} (mg/m^3) =	$\frac{CA \times EF \times ED \times ET \times CFt}{AT_{NC}}$
				CFa	Conversion Factor - air	1,000	µg/mg	--		
				VF	Volatilization Factor	chemical-specific	m^3/kg	--		
				PEF	Particulate Emission Factor	6.75E+08	m^3/kg	USEPA, 1996 (11)		
				AT_C	Averaging Time - Cancer	25,550	days	USEPA, 1989 (6)		
				AT_{NC}	Averaging Time - Non-Cancer	365	days	USEPA, 1989 (7)		

Notes:
(1) Default soil ingestion rate - construction worker
(2) Assumes 100% of daily soil ingestion occurs at the site
(3) Assumes 6 worker-months per year
(4) Construction activities are expected to be of relatively short duration - assumes 1 year
(5) Default adult body weight
(6) 70-year lifetime x 365 days/year
(7) ED (years) x 365 days/year
(8) Default outdoor worker value; based on median surface area occupied by 1/3 of the head, forearms, and hands for the average male and female adult.
(9) 95th percentile weighted soil adherence factor for construction workers
(10) Assumes 5-day, 40-hour work week
(11) Site-specific Particulate Emission Factor based on a 30-acre site in Philadelphia, Pennsylvania (Q/C value = 46.59 g/m^2-s per kg/m^3)

Sources:
BPJ - best professional judgment.
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1991. Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual, Supplemental Guidance: Standad Default Exposure Factors. Interim Final. Office of Emergency and Remedial Response. OSWER Directive 9285.6-03.
USEPA, 1996. Soil Screening Guidance: Technical Background Document. Office of Solid Waste and Emergency Response, Washington, DC. EPA/540/R-95/128.
USEPA, 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Emergency and Remedial Response. OSWER 9355.4-24. December.
USEPA, 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment). EPA/540/R/99/005. July.

TABLE 4.3a.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS - CTE
FUTURE CONSTRUCTION WORKER - MIXED SOIL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Timeframe: Future
Medium: Mixed Soil (0 to 10 ft bgs)
Exposure Medium: Mixed Soil (0 to 10 ft bgs)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)/ Average Daily Exposure (ADE)	
Ingestion	Construction Worker	Adult	Mixed Soil (0 to 10 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.2	ADD_{ING} (mg/kg-day) =	$\frac{CS \times IR\text{-}S \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR_{Soil}	Ingestion Rate - Soil	330	mg/day	USEPA, 2002 (1)		
				FI	Fraction from Site	1	--	BPJ (2)		
				EF	Exposure Frequency	65	days/year	BPJ (3)		
				ED	Exposure Duration	1	years	BPJ (4)		
				CF	Conversion Factor	1.0E-06	kg/mg	--		
				BW	Body Weight	70	kg	USEPA, 1991 (5)		
				AT_C	Avg. Time - Cancer	25,550	days	USEPA, 1989 (6)		
				AT_{NC}	Avg. Time - Non-Cancer	365	days	USEPA, 1989 (7)		
Dermal	Construction Worker	Adult	Mixed Soil (0 to 10 ft bgs)	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.2	ADD_{DERM} (mg/kg-day) =	$\frac{CS \times SA \times AF \times DA \times EF \times ED \times CF}{BW \times AT}$
				CF	Conversion Factor	1.0E-06	kg/mg	--		
				SA	Skin Surface Area	3,300	cm^2	USEPA, 2002 (8)		
				AF	Soil-to-Skin Adherence Factor	0.3	mg/cm^2	USEPA, 2002 (9)		
				DA	Dermal Absorption Factor	chemical-specific	unitless	--		
				EF	Exposure Frequency	65	days/year	BPJ (3)		
				ED	Exposure Duration	1	years	BPJ (4)		
				BW	Body Weight	70	kg	USEPA, 1991 (5)		
				AT_C	Avg. Time - Cancer	25,550	day	USEPA, 1989 (6)		
				AT_{NC}	Avg. Time - Non-Cancer	365	day	USEPA, 1989 (7)		
Inhalation	Construction Worker	Adult	Particulates/ Vapors in Outdoor Air	CA	Concentration in Air	chemical-specific	mg/m^3	CS x (1/PEF + 1/VF)	ADE_{CA} ($\mu g/m^3$) =	$\frac{CA \times CFa \times EF \times ED \times ET \times CFt \times CFa}{AT_C}$
				EF	Exposure Frequency	65	days/year	BPJ (3)		
				ED	Exposure Duration	1	years	BPJ (4)		
				ET	Exposure Time	8	hrs/day	USEPA, 1991 (10)		
				CFt	Conversion Factor - time	1/24	day/hrs	--	ADE_{NC} (mg/m^3) =	$\frac{CA \times EF \times ED \times ET \times CFt}{AT_{NC}}$
				CFa	Conversion Factor - air	1.0E+03	µg/mg	--		
				VF	Volatilization Factor	chemical-specific	m^3/kg	--		
				PEF	Particulate Emission Factor	6.75E+08	m^3/kg	USEPA, 1996 (11)		
				AT_C	Averaging Time - Cancer	25,550	days	USEPA, 1989 (6)		
				AT_{NC}	Averaging Time - Non-Cancer	365	days	USEPA, 1989 (7)		

Notes:
(1) Default soil ingestion rate - construction worker
(2) Assumes 100% of daily soil ingestion occurs at the site
(3) Assumes 3 worker-months per year
(4) Construction activities are expected to be of relatively short duration - assumes 1 year
(5) Default adult body weight
(6) 70-year lifetime x 365 days/year
(7) ED (years) x 365 days/year
(8) Default outdoor worker value; based on median surface area occupied by 1/3 of the head, forearms, and hands for the average male and female adult.
(9) 95th percentile weighted soil adherence factor for construction workers
(10) Assumes 5-day, 40-hour work week
(11) Site-specific Particulate Emission Factor based on a 30-acre site in Philadelphia, Pennsylvania (Q/C value = 46.59 g/m^2-s per kg/m^3)

Sources:
BPJ - best professional judgment.
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1991. Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual, Supplemental Guidance: Standad Default Exposure Factors. Interim Final. Office of Emergency and Remedial Response. OSWER Directive 9285.6-03.
USEPA, 1996. Soil Screening Guidance: Technical Background Document. Office of Solid Waste and Emergency Response, Washington, DC. EPA/540/R-95/128.
USEPA, 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Emergency and Remedial Response. OSWER 9355.4-24. December.
USEPA, 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment). EPA/540/R/99/005. July.

TABLE 4.3b.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS - RME
FUTURE CONSTRUCTION WORKER - SHALLOW (OVERBURDEN) GROUNDWATER
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Timeframe: Future
Medium: Groundwater
Exposure Medium: Shallow (Overburden) Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)
Dermal	Construction Worker	Adult	Shallow (Overburden) Groundwater at the Water Table	C_{GW}	Chemical Concentration in Groundwater	chemical-specific	µg/L	See Table 3.3	ADD_{DERM} (mg/kg-day) = $\frac{C_{GW} \times SA \times Kp \times EF \times ED \times ET \times CF_W \times CF_V}{BW \times AT}$
				SA	Skin Surface Area	3,300	cm^2	USEPA, 2002 (1)	
				Kp	Permeability Constant	chemical-specific	cm/hour	--	
				EF	Exposure Frequency	130	days/year	BPJ (2)	
				ED	Exposure Duration	1	years	BPJ (3)	
				ET	Exposure Time	8	hours/day	USEPA, 1991 (4)	
				CF_W	Conversion Factor	1.0E-03	mg/ug	--	ADD_{DERM} (mg/kg-day) = $\frac{C_{GW} \times SA \times Kp \times EF \times ED \times ET \times CF_W \times CF_V}{BW \times AT}$
				CF_V	Conversion Factor	1.0E-03	L/cm^3	--	
				BW	Body Weight	70	kg	USEPA, 1991 (5)	
				AT_C	Avg. Time - Cancer	25,550	day	USEPA, 1989 (6)	
				AT_{NC}	Averaging Time - Non-Cancer	365	days	USEPA, 1989 (7)	

Notes:
(1) Default outdoor worker value; based on median surface area occupied by 1/3 of the head, forearms, and hands for the average male and female adult.
(2) Assumes 6 worker-months per year
(3) Construction activities are expected to be of relatively short duration - assumes 1 year
(4) Assumes 5-day, 40-hour work week
(5) Default adult body weight
(6) 70-year lifetime x 365 days/year
(7) ED (years) x 365 days/year

Sources:
BPJ - best professional judgment.
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1991. Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual, Supplemental Guidance: Standad Default Exposure Factors. Interim Final. Office of Emergency and Remedial Response. OSWER Directive 9285.6-03.
USEPA, 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Emergency and Remedial Response. OSWER 9355.4-24. December.

TABLE 4.3b.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS - CTE
FUTURE CONSTRUCTION WORKER - SHALLOW (OVERBURDEN) GROUNDWATER
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Timeframe: Future
Medium: Groundwater
Exposure Medium: Shallow (Overburden) Groundwater

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)
Dermal	Construction Worker	Adult	Shallow (Overburden) Groundwater at the Water Table	C_{GW}	Chemical Concentration in Groundwater	chemical-specific	µg/L	See Table 3.3	ADD_{DERM} (mg/kg-day) = $\frac{C_{GW} \times SA \times Kp \times EF \times ED \times ET \times CF_W \times CF_V}{BW \times AT}$
				SA	Skin Surface Area	3,300	cm^2	USEPA, 2002 (1)	
				Kp	Permeability Constant	chemical-specific	cm/hour	--	
				EF	Exposure Frequency	65	days/year	BPJ (2)	
				ED	Exposure Duration	1	years	BPJ (3)	
				ET	Exposure Time	8	hours/day	USEPA, 1991 (4)	
				CF_2	Conversion Factor	1.0E-03	mg/µg	--	
				CF_3	Conversion Factor	1.0E-03	L/cm^3	--	
				BW	Body Weight	70	kg	USEPA, 1991 (5)	
				AT_C	Avg. Time - Cancer	25,550	day	USEPA, 1989 (6)	
				AT_{NC}	Averaging Time - Non-Cancer	365	days	USEPA, 1989 (7)	

Notes:
(1) Default outdoor worker value; based on median surface area occupied by 1/3 of the head, forearms, and hands for the average male and female adult.
(2) Assumes 3 worker-months per year
(3) Construction activities are expected to be of relatively short duration - assumes 1 year
(4) Assumes 5-day, 40-hour work week
(5) Default adult body weight
(6) 70-year lifetime x 365 days/year
(7) ED (years) x 365 days/year

Sources:
BPJ - best professional judgment.
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1991. Risk Assessment Guidance for Superfund. Volume I: Human Health Evaluation Manual, Supplemental Guidance: Standad Default Exposure Factors. Interim Final. Office of Emergency and Remedial Response. OSWER Directive 9285.6-03.
USEPA, 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Emergency and Remedial Response. OSWER 9355.4-24. December.

TABLE 4.4.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS - RME
CURRENT/FUTURE TRESPASSER - SEDIMENT/BANK SOIL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Current/Future
Medium: Surficial Sediment/ Bank Soil (0 to 0.5 ft bgs)
Exposure Medium: Surficial Sediment/Bank Soil (0 to 0.5 ft bgs)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)
Ingestion	Trespasser	Adolescent Ages 7-16	Surficial Sediment/ Bank Soil (0 to 0.5 ft bgs) in/along SBC	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.4	ADD_{ING} (mg/kg-day) = $\frac{CS \times IR\text{-}S \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR_{Sed}	Ingestion Rate - Sediment	100	mg/day	USEPA, 1997 (1)	
				FI	Fraction from Site	1	--	BPJ (2)	
				EF	Exposure Frequency	32	days/year	BPJ (3)	
				ED	Exposure Duration	10	years	BPJ (4)	
				CF	Conversion Factor	1.0E-06	kg/mg	--	
				BW	Body Weight	43	kg	USEPA, 1997 (5)	
				AT_C	Avg. Time - Cancer	25,550	days	USEPA, 1989 (6)	
				AT_{NC}	Avg. Time - Non-Cancer	3,650	days	USEPA, 1989 (7)	
Dermal	Trespasser	Adolescent Ages 7-16	Surficial Sediment/ Bank Soil (0 to 0.5 ft bgs) in/along SBC	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.4	ADD_{DERM} (mg/kg-day) = $\frac{CS \times SA \times AF \times DA \times EF \times ED \times CF}{BW \times AT}$
				CF	Conversion Factor	1.0E-06	kg/mg	--	
				SA	Skin Surface Area	4,100	cm^2	USEPA, 1997 (8)	
				AF	Soil-to-Skin Adherence Factor	0.3	mg/cm^2	USEPA, 2004 (9)	
				DA	Dermal Absorption Factor	chemical-specific	unitless	--	
				EF	Exposure Frequency	32	days/year	BPJ (3)	
				ED	Exposure Duration	10	years	BPJ (4)	
				BW	Body Weight	43	kg	USEPA, 1997 (5)	
				AT_C	Avg. Time - Cancer	25,550	day	USEPA, 1989 (6)	
				AT_{NC}	Avg. Time - Non-Cancer	3,650	day	USEPA, 1989 (7)	

Notes:
(1) Mean soil ingestion rate for children; sediment ingestion rates could not be identified
(2) Assumes 100% of daily sediment ingestion occurs at the site
(3) Assumes 1 day per week during the non-winter months (March-October)
(4) Assumes an adolescent will visit the site for a period of 10 years (ages 7 to 16)
(5) Average body weight, males and females, ages 7 to 16
(6) 70-year lifetime x 365 days/year
(7) ED (years) x 365 days/year
(8) Median surface area occupied by 1/3 of the head, lower legs, forearms, and the hands for average males and females ages 7 to 16
(9) Median weighted soil adherence factor for reed gatherers

Sources:
BPJ - best professional judgment.
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1997. Volume 1- General Factors, Exposure Factors Handbook, and Volume 3 - Activity Factors. EPA/600/P-95/002Fa.
USEPA, 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment). EPA/540/R/99/005. July.

TABLE 4.4.CTE
VALUES USED FOR DAILY INTAKE CALCULATIONS - CTE
CURRENT/FUTURE TRESPASSER - SEDIMENT/BANK SOIL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Current/Future
Medium: Surficial Sediment/ Bank Soil (0 to 0.5 ft bgs)
Exposure Medium: Surficial Sediment/Bank Soil (0 to 0.5 ft bgs)

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Average Daily Dose (ADD)
Ingestion	Trespasser	Adolescent Ages 7-16	Surficial Sediment/ Bank Soil (0 to 0.5 ft bgs) in/along SBC	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.4	ADD_{ING} (mg/kg-day) = $\frac{CS \times IR\text{-}S \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR_{Sed}	Ingestion Rate - Sediment	50	mg/day	USEPA, 1997 (1)	
				FI	Fraction from Site	1	--	BPJ (2)	
				EF	Exposure Frequency	12	days/year	BPJ (3)	
				ED	Exposure Duration	10	years	BPJ (4)	
				CF	Conversion Factor	1.0E-06	kg/mg	--	
				BW	Body Weight	43	kg	USEPA, 1997 (5)	
				AT_C	Avg. Time - Cancer	25,550	days	USEPA, 1989 (6)	
				AT_{NC}	Avg. Time - Non-Cancer	3,650	days	USEPA, 1989 (7)	
Dermal	Trespasser	Adolescent Ages 7-16	Surficial Sediment/ Bank Soil (0 to 0.5 ft bgs) in/along SBC	CS	Chemical Concentration in Soil	chemical-specific	mg/kg	See Table 3.4	ADD_{DERM} (mg/kg-day) = $\frac{CS \times SA \times AF \times DA \times EF \times ED \times CF}{BW \times AT}$
				CF	Conversion Factor	1.0E-06	kg/mg	--	
				SA	Skin Surface Area	4,100	cm^2	USEPA, 1997 (8)	
				AF	Soil-to-Skin Adherence Factor	0.3	mg/cm^2	USEPA, 2004 (9)	
				DA	Dermal Absorption Factor	chemical-specific	unitless	--	
				EF	Exposure Frequency	12	days/year	BPJ (3)	
				ED	Exposure Duration	10	years	BPJ (4)	
				BW	Body Weight	43	kg	USEPA, 1997 (5)	
				AT_C	Avg. Time - Cancer	25,550	day	USEPA, 1989 (6)	
				AT_{NC}	Avg. Time - Non-Cancer	3,650	day	USEPA, 1989 (7)	

Notes:
(1) Mean soil ingestion rate for adults; sediment ingestion rates could not be identified
(2) Assumes 100% of daily sediment ingestion occurs at the site
(3) Assumes 1 day per week during the summer months (June-August)
(4) Assumes an adolescent will visit the site for a period of 10 years (ages 7 to 16)
(5) Average body weight, males and females, ages 7 to 16
(6) 70-year lifetime x 365 days/year
(7) ED (years) x 365 days/year
(8) Median surface area occupied by 1/3 of the head, lower legs, forearms, and the hands for males and females ages 7 to 16
(9) Median weighted soil adherence factor for reed gatherers

Sources:
BPJ - best professional judgment.
USEPA, 1989. Risk Assessment Guidance for Superfund - Volume 1 Human Health Evaluation Manual (Part A). EPA/540/1-89/002.
USEPA, 1997. Volume 1- General Factors, Exposure Factors Handbook, and Volume 3 - Activity Factors. EPA/600/P-95/002Fa.
USEPA, 2004. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment). EPA/540/R/99/005. July.

TABLE 5.1
NON-CANCER TOXICITY DATA -- ORAL/DERMAL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPC	CAS No.	Chronic/ Subchronic	RfDo [1]		GI Absorption [2] (unitless)	RfDd [2]		Dermal Absorption Factor [2]	Kp [3] (cm/hr)	Target Organ/ Critical Effect [4]	Combined UF/MF [5] (unitless)	RfDo	
			Value	Units		Value	Units					Source [1]	Date [6]
Aluminum	7429-90-5	Chronic	1.0E+00	mg/kg-day	1	1.0E+00	mg/kg-day	--	1.00E-03	CNS/Bone	--	P	Nov 2011
Antimony	7440-36-0	Chronic	4.0E-04	mg/kg-day	0.15	6.0E-05	mg/kg-day	--	1.00E-03	Blood	1,000	I	Nov 2011
Arsenic	7440-38-2	Chronic	3.0E-04	mg/kg-day	1	3.0E-04	mg/kg-day	0.03	1.00E-03	Cardio/Derm	3	I	Nov 2011
Barium	7440-39-3	Chronic	2.0E-01	mg/kg-day	0.07	1.4E-02	mg/kg-day	--	1.00E-03	Kidney	300	I	Nov 2011
Beryllium	7440-41-7	Chronic	2.0E-03	mg/kg-day	0.007	1.4E-05	mg/kg-day	--	1.00E-03	GI	300	I	Nov 2011
Cadmium	7440-43-9d	Chronic	1.0E-03	mg/kg-day	0.025	2.5E-05	mg/kg-day	0.001	--	Kidney	10	I	Nov 2011
Cadmium (water)	7440-43-9w	Chronic	5.0E-04	mg/kg-day	0.05	2.5E-05	mg/kg-day	0.001	1.00E-03	Kidney	10	I	Nov 2011
Chromium, Hexavalent	18540-29-9	Chronic	3.0E-03	mg/kg-day	0.025	7.5E-05	mg/kg-day	--	2.00E-03	GI/Blood	900	I	Nov 2011
Cobalt	7440-48-4	Chronic	3.0E-04	mg/kg-day	1	3.0E-04	mg/kg-day	--	4.00E-04	Blood/Resp/Derm	--	P	Nov 2011
Copper	7440-50-8	Chronic	4.0E-02	mg/kg-day	1	4.0E-02	mg/kg-day	--	1.00E-03	GI/Kidney	--	H	Nov 2011
Iron	7439-89-6	Chronic	7.0E-01	mg/kg-day	1	7.0E-01	mg/kg-day	--	1.00E-03	GI	--	P	Nov 2011
Lead	7439-92-1	--	--	--	1	--	--	--	1.00E-04	--	--	--	--
Manganese	7439-96-5	Chronic	2.4E-02	mg/kg-day	0.04	9.6E-04	mg/kg-day	--	1.00E-03	CNS	1.0	I	Nov 2011
Mercury (elemental)	7439-97-6	Chronic	1.6E-04	mg/kg-day	1	1.6E-04	mg/kg-day	--	1.00E-03	CNS	--	C	Nov 2011
Mercury (inorganic)	7487-94-7	Chronic	3.0E-04	mg/kg-day	0.07	2.1E-05	mg/kg-day	--	1.00E-03	Immuno/Kidney	--	I	Nov 2011
Methyl Mercury	22967-92-6	Chronic	1.0E-04	mg/kg-day	1	1.0E-04	mg/kg-day	--	1.00E-03	CNS/Develop	10	I	Nov 2011
Nickel	7440-02-0	Chronic	2.0E-02	mg/kg-day	0.04	8.0E-04	mg/kg-day	--	2.00E-04	Body Weight	300	I	Nov 2011
Silver	7440-22-4	Chronic	5.0E-03	mg/kg-day	0.04	2.0E-04	mg/kg-day	--	6.00E-04	Derm	3	I	Nov 2011
Vanadium	7440-62-2	Chronic	7.0E-05	mg/kg-day	0.026	1.8E-06	mg/kg-day	--	1.00E-03	Blood	--	P	Nov 2011
Zinc	7440-66-6	Chronic	3.0E-01	mg/kg-day	1	3.0E-01	mg/kg-day	--	6.00E-04	Blood	3	I	Nov 2011
Cyanide	57-12-5	Chronic	2.0E-02	mg/kg-day	1	2.0E-02	mg/kg-day	--	1.00E-03	Reprod	500	I	Nov 2011
Total PCBs [7]	PCB	Chronic	2.0E-05	mg/kg-day	1	2.0E-05	mg/kg-day	0.14	5.45E-01	Immuno	300	I	Nov 2011
Dioxin 2,3,7,8-TCDD TEQ [8]	DIOXIN TEQ	Chronic	1.0E-09	mg/kg-day	1	1.0E-09	mg/kg-day	0.03	8.08E-01	Immuno/Develop/Reprod/Dermal	--	A	Nov 2011
Furan 2,3,7,8-TCDD TEQ [8]	FURAN TEQ	Chronic	1.0E-09	mg/kg-day	1	1.0E-09	mg/kg-day	0.03	6.57E-01	Immuno/Develop/Reprod/Dermal	--	A	Nov 2011
Benzo(a)pyrene TEQ [9]	BAP	--	--	--	--	--	--	--	--	--	--	--	--
Benz(a)anthracene	56-55-3	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	117-81-7	Chronic	2.0E-02	mg/kg-day	1	2.0E-02	mg/kg-day	0.1	1.13E+00	Liver	1,000	I	Nov 2011
Carbazole	86-74-8	--	--	--	--	--	--	--	--	--	--	--	--
Chloroaniline, p-	106-47-8	Chronic	4.0E-03	mg/kg-day	1	4.0E-03	mg/kg-day	0.1	4.96E-03	Spleen	3,000	I	Nov 2011
Chlorophenol, 2-	95-57-8	Chronic	5.0E-03	mg/kg-day	1	5.0E-03	mg/kg-day	--	7.99E-03	Reprod	1,000	I	Nov 2011
Dibenzofuran	132-64-9	Chronic	1.0E-03	mg/kg-day	1	1.0E-03	mg/kg-day	--	9.75E-02	Kidney	--	P(X)	Nov 2011
Dichlorobenzene, 1,2-	95-50-1	Chronic	9.0E-02	mg/kg-day	1	9.0E-02	mg/kg-day	--	4.46E-02	Liver	1,000	I	Nov 2011
Dichlorobenzene, 1,3- [7]	541-73-1	Chronic	9.0E-02	mg/kg-day	1	9.0E-02	mg/kg-day	--	5.20E-02	Liver	1,000	I	Nov 2011
Dichlorobenzene, 1,4-	106-46-7	Chronic	7.0E-02	mg/kg-day	1	7.0E-02	mg/kg-day	--	4.53E-02	Liver	--	A	Nov 2011
Dichlorophenol, 2,4-	120-83-2	Chronic	3.0E-03	mg/kg-day	1	3.0E-03	mg/kg-day	0.1	2.06E-02	Immuno	100	I	Nov 2011
Hexachlorobenzene	118-74-1	Chronic	8.0E-04	mg/kg-day	1	8.0E-04	mg/kg-day	0.1	2.54E-01	Liver	100	I	Nov 2011
Hexachlorobutadiene	87-68-3	Chronic	1.0E-03	mg/kg-day	1	1.0E-03	mg/kg-day	0.1	8.10E-02	Kidney	--	P	Nov 2011
Methylnaphthalene, 2-	91-57-6	Chronic	4.0E-03	mg/kg-day	1	4.0E-03	mg/kg-day	--	9.17E-02	Cardio	1,000	I	Nov 2011
Naphthalene	91-20-3	Chronic	2.0E-02	mg/kg-day	1	2.0E-02	mg/kg-day	0.13	4.66E-02	Body Weight	3,000	I	Nov 2011
Nitrobenzene	98-95-3	Chronic	2.0E-03	mg/kg-day	1	2.0E-03	mg/kg-day	--	5.41E-03	Blood/Reprod/Immuno	1,000	I	Nov 2011
Pentachlorophenol	87-86-5	Chronic	5.0E-03	mg/kg-day	1	5.0E-03	mg/kg-day	0.25	1.27E-01	Liver/Reprod/Immuno	300	I	Nov 2011
Phenanthrene [7]	85-01-8	Chronic	3.0E-02	mg/kg-day	1	3.0E-02	mg/kg-day	0.13	1.44E-01	Kidney	3,000	I	Nov 2011
Trichlorobenzene, 1,2,4-	120-82-1	Chronic	1.0E-02	mg/kg-day	1	1.0E-02	mg/kg-day	--	7.05E-02	Adrenal	1,000	I	Nov 2011
Benzene	71-43-2	Chronic	4.0E-03	mg/kg-day	1	4.0E-03	mg/kg-day	--	1.49E-02	Blood/Immuno	300	I	Nov 2011
Chlorobenzene	108-90-7	Chronic	2.0E-02	mg/kg-day	1	2.0E-02	mg/kg-day	--	2.82E-02	Liver	1,000	I	Nov 2011
Chloroform	67-66-3	Chronic	1.0E-02	mg/kg-day	1	1.0E-02	mg/kg-day	--	6.83E-03	Liver	1,000	I	Nov 2011

TABLE 5.1
NON-CANCER TOXICITY DATA -- ORAL/DERMAL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPC	CAS No.	Chronic/ Subchronic	RfDo (1)		GI Absorption (2) (unitless)	RfDd (2)		Dermal Absorption Factor (2)	Kp (3) (cm/hr)	Target Organ/ Critical Effect (4)	Combined UF/MF (5) (unitless)	RfDo	
			Value	Units		Value	Units					Source (1)	Date (6)
Dichloroethane, 1,1-	75-34-3	Chronic	2.0E-01	mg/kg-day	1	2.0E-01	mg/kg-day	--	6.75E-03	Kidney	--	P	Nov 2011
Dichloroethane, 1,2-	107-06-2	Chronic	2.0E-02	mg/kg-day	1	2.0E-02	mg/kg-day	--	4.20E-03	Kidney	--	P	Nov 2011
Ethylbenzene	100-41-4	Chronic	1.0E-01	mg/kg-day	1	1.0E-01	mg/kg-day	--	4.93E-02	Kidney/Liver	1,000	I	Nov 2011
Methylene Chloride	75-09-2	Chronic	6.0E-02	mg/kg-day	1	6.0E-02	mg/kg-day	--	3.54E-03	Liver	100	I	Nov 2011
Tetrachloroethylene (PCE)	127-18-4	Chronic	1.0E-02	mg/kg-day	1	1.0E-02	mg/kg-day	--	3.34E-02	Liver	1,000	I	Nov 2011
Trichloroethylene (TCE)	79-01-6	--	--	--	-	--	--	--	--	--	--	--	--
Vinyl Chloride	75-01-4	Chronic	3.0E-03	mg/kg-day	1	3.0E-03	mg/kg-day	--	8.38E-03	Liver	30	I	Nov 2011
Xylenes, Mixed	1330-20-7	Chronic	2.0E-01	mg/kg-day	1	2.0E-01	mg/kg-day	--	4.71E-02	Body Weight	1,000	I	Nov 2011

Notes:
(1) RfDo and values obtained from USEPA Regional Screening Level (RSL) Tables for Chemical Contaminants at Superfund Sites (updated November 2010). The RSL Tables cite the following primary sources:
I = IRIS; USEPA's Integrated Risk Information System available at: http://cfpub.epa.gov/ncea/iris/index.cfm
P = PPRTV; the Provisional Peer Reviewed Toxicity Values derived for the USEPA Superfund program (not publicly available). P(X) indicates a withdrawn value.
A = ATSDR; the Agency for Toxic Substances and Disease Registry Minimal Risk Levels (MRLS) available at: http://www.atsdr.cdc.gov/mrls/
C = California EPA toxicity values available at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST; the USEPA Superfund program's Health Effects Summary Tables (not publicly available)
(2) Gastrointestinal absorption factors (GI_{ABS}) and dermal absorption factors (DAF) obtained from USEPA RSL Tables (November 2010). RfDd values was calcluated as follows: Rfd = RfDo x $GI_{Abs.}$
(3) Dermal permeability (Kp) coefficients obtained from RAGS Part E Exhibit 3-1 (Inorganics) and USEPA's EPI DermWIN v2.0 (organics).
(4) Primary target organ as reported in principal study.
(5) UF/MF reported by the USEPA IRIS database (accessed March 2011).
(6) Date of most recent RSL Tables.
(7) The following surrogate values were used for risk characterization:
- total PCBs uses Aroclor 1254 as a surrogate
- 1,3-dichlorobenzene uses 1,2-dichlorobenzene as a surrogate
- phenanthrene uses pyrene as a surrogate

(8) Concentrations of dioxins and furans are normalized to 2,3,7,8-TCDD using the World Health Organization (2005) toxicity equivalency factors.
(9) Concentrations of carcinogenic polycyclic aromatic hydrocarbons are normalized to benzo(a)pyrene using the toxicity equivalency factors obtained from the USEPA *Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons* (July 1993).

Definitions:
RfDo = Oral Reference Dose
RfDd = Dermal Reference Dose
DAF = Dermal Absorption Fraction
Kp = Dermal Permeability Coefficient
UF = Uncertainty Factor
MF = Modifying Factor
NA = Not available
"--" = Not applicable

TABLE 5.2
NON-CANCER TOXICITY DATA -- INHALATION
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPC	Chronic/ Subchronic	RfC [1]		Target Organ/ Critical Effect [2]	VF [3] (m^3/kg)	Combined UF/MF [4] (unitless)	RfC	
		Value	Units				Source [1]	Date [5]
Aluminum	Chronic	5.0E-03	mg/m^3	CNS/Bone	--	--	P	Nov 2011
Antimony	--	--	--	--	--	--	--	--
Arsenic	Chronic	1.5E-05	mg/m^3	Develop/Cardio/CNS	--	--	C	Nov 2011
Barium	Chronic	5.0E-04	mg/m^3	Kidney	--	--	H	Nov 2011
Beryllium	Chronic	2.0E-05	mg/m^3	Resp	--	10	I	Nov 2011
Cadmium	Chronic	1.0E-05	mg/m^3	Kidney	--	--	A	Nov 2011
Cadmium (water)	Chronic	1.0E-05	mg/m^3	Kidney	--	--	A	Nov 2011
Chromium, Hexavalent	Chronic	1.0E-04	mg/m^3	Resp	--	300	I	Nov 2011
Cobalt	Chronic	6.0E-06	mg/m^3	Blood/Resp/Derm	--	--	P	Nov 2011
Copper	--	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--	--
Lead	--	--	--	--	--	--	--	--
Manganese	Chronic	5.0E-05	mg/m^3	CNS	--	1,000	I	Nov 2011
Mercury (elemental)	Chronic	3.0E-04	mg/m^3	CNS	2.21E+04	30	I	Nov 2011
Mercury (inorganic)	Chronic	3.0E-05	mg/m^3	Immuno/Kidney/CNS	--	--	C	--
Methyl Mercury	--	--	--	--	--	--	--	--
Nickel	Chronic	9.0E-05	mg/m^3	Body Weight	--	--	A	Nov 2011
Silver	--	--	--	--	--	--	--	--
Vanadium	Chronic	1.0E-04	mg/m^3	Blood	--	--	A	Nov 2011
Zinc	--	--	--	--	--	--	--	--
Cyanide	--	--	--	--	--	--	--	--
Total PCBs	--	--	--	--	--	--	--	--
Dioxin 2,3,7,8-TCDD TEQ [6]	Chronic	4.0E-08	mg/m^3	Immuno/Develop/Reprod/Dermal	--	--	C	Nov 2011
Furan 2,3,7,8-TCDD TEQ [6]	Chronic	4.0E-08	mg/m^3	Immuno/Develop/Reprod/Dermal	--	--	C	Nov 2011
Benzo(a)pyrene TEQ [7]	--	--	--	--	--	--	--	--
Benz(a)anthracene	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	--	--	--	--	--	--	--	--
Carbazole	--	--	--	--	--	--	--	--
Chloroaniline, p-	--	--	--	--	--	--	--	--
Chlorophenol, 2-	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	--	--	--
Dichlorobenzene, 1,2-	Chronic	2.0E-01	mg/m^3	Liver	8.58E+03	--	H	Nov 2011
Dichlorobenzene, 1,3- [8]	Chronic	2.0E-01	mg/m^3	Liver	7.27E+03	--	H	Nov 2011
Dichlorobenzene, 1,4-	Chronic	8.0E-01	mg/m^3	Liver	7.67E+03	100	I	Nov 2011
Dichlorophenol, 2,4-	--	--	--	--	--	--	--	--
Hexachlorobenzene	--	--	--	--	--	--	--	--
Hexachlorobutadiene	--	--	--	--	--	--	--	--
Methylnaphthalene, 2-	--	--	--	--	--	--	--	--
Naphthalene	Chronic	3.0E-03	mg/m^3	Resp	3.40E+04	3,000	I	Nov 2011

TABLE 5.2
NON-CANCER TOXICITY DATA -- INHALATION
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPC	Chronic/ Subchronic	RfC (1)		Target Organ/ Critical Effect (2)	VF (3) (m^3/kg)	Combined UF/MF (4) (unitless)	RfC	
		Value	Units				Source (1)	Date (5)
Nitrobenzene	Chronic	9.0E-03	mg/m^3	Resp	5.38E+04	30	I	Nov 2011
Pentachlorophenol	--	--	--	--	--	--	--	--
Phenanthrene (8)	--	--	--	--	--	--	--	--
Trichlorobenzene, 1,2,4-	Chronic	2.0E-03	mg/m^3	Adrenal	2.20E+04	--	P	Nov 2011
Benzene	Chronic	3.0E-02	mg/m^3	Blood/Immuno	2.60E+03	300	I	Nov 2011
Chlorobenzene	Chronic	5.0E-02	mg/m^3	Liver	4.73E+03	--	P	Nov 2011
Chloroform	Chronic	9.8E-02	mg/m^3	Liver	1.93E+03	--	A	Nov 2011
Dichloroethane, 1,1-	--	--	--	--	--	--	--	--
Dichloroethane, 1,2-	Chronic	2.4E+00	mg/m^3	Kidney	3.36E+03	--	A	Nov 2011
Ethylbenzene	Chronic	1.0E+00	mg/m^3	Develop	4.16E+03	300	I	Nov 2011
Methylene Chloride	Chronic	1.0E+00	mg/m^3	Liver	1.61E+03	--	A	Nov 2011
Tetrachloroethylene (PCE)	Chronic	2.7E-01	mg/m^3	Liver	1.72E+03	--	A	Nov 2011
Trichloroethylene (TCE)	--	--	--	--	--	--	--	--
Vinyl Chloride	Chronic	1.0E-01	mg/m^3	Liver	7.02E+02	30	I	Nov 2011
Xylenes, Mixed	Chronic	1.0E-01	mg/m^3	CNS	4.27E+03	300	I	Nov 2011

Notes:

(1) RfDo and values obtained from USEPA Regional Screening Level (RSL) Tables for Chemical Contaminants at Superfund Sites (updated November 2010). The RSL Tables cite the following primary sources:

I = IRIS; USEPA's Integrated Risk Information System available at: http://cfpub.epa.gov/ncea/iris/index.cfm
P = PPRTV; the Provisional Peer Reviewed Toxicity Values derived for the USEPA Superfund program (not publicly available). P(X) indicates a withdrawn value.
A = ATSDR; the Agency for Toxic Substances and Disease Registry Minimal Risk Levels (MRLS) available at: http://www.atsdr.cdc.gov/mrls/
C = California EPA toxicity values available at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST; the USEPA Superfund program's Health Effects Summary Tables (not publicly available)

(2) Chemical-specific VFs were calculated using the default equation presented in the USEPA (1996) Soil Screening Guidance. Equations and inputs are presented in Attachment A.

(3) Primary target organ as reported in principal study.

(4) UF/MF reported by the USEPA IRIS database (accessed March 2011).

(5) Date of most recent RSL Tables.

(6) Concentrations of dioxins and furans are normalized to 2,3,7,8-TCDD using the World Health Organization (2005) toxicity equivalency factors.

(7) Concentrations of carcinogenic polycyclic aromatic hydrocarbons are normalized to benzo(a)pyrene using the toxicity equivalency factors obtained from the USEPA *Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons* (July 1993).

(8) The following surrogate values were used for risk characterization:

- 1,3-dichlorobenzene uses 1,2-dichlorobenzene as a surrogate
- phenanthrene uses pyrene as a surrogate

Definitions:

RfC = Reference Concentration
VF = Volatilization Factor
"--" = Not applicable
UF = Uncertainty Factor
MF = Modifying Factor

TABLE 6.1
CANCER TOXICITY DATA -- ORAL/DERMAL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPC	SFo [1]		GI Absorption [2] (unitless)	SFd [2]		DAF [2] (unitless)	Kp [3] (cm/hr)	Cancer Class [4]	SFo	
	Value	Units		Value	Units				Source [1]	Date [5]
Aluminum	--	--	--	--	--	--	--	--	--	--
Antimony	--	--	--	--	--	--	--	--	--	--
Arsenic	1.5E+00	1/(mg/kg-day)	1	1.5E+00	1/(mg/kg-day)	0.03	1.00E-03	A	I	Nov 2011
Barium	--	--	--	--	--	--	--	D	--	--
Beryllium	--	--	--	--	--	--	--	D	--	--
Cadmium	--	--	--	--	--	--	--	B1	--	--
Cadmium (water)	--	--	--	--	--	--	--	B1	--	--
Chromium, Hexavalent	5.0E-01	1/(mg/kg-day)	0.025	2.0E+01	1/(mg/kg-day)	--	2.00E-03	D	J	Nov 2011
Cobalt	--	--	--	--	--	--	--	--	--	--
Copper	--	--	--	--	--	--	--	D	--	--
Iron	--	--	--	--	--	--	--	--	--	--
Lead	--	--	--	--	--	--	--	B2	--	--
Manganese	--	--	--	--	--	--	--	D	--	--
Mercury (elemental)	--	--	--	--	--	--	--	D	--	--
Mercury (inorganic)	--	--	--	--	--	--	--	--	--	--
Methyl Mercury	--	--	--	--	--	--	--	C	--	--
Nickel	--	--	--	--	--	--	--	--	--	--
Silver	--	--	--	--	--	--	--	D	--	--
Vanadium	--	--	--	--	--	--	--	--	--	--
Zinc	--	--	--	--	--	--	--	D	--	--
Cyanide	--	--	--	--	--	--	--	D	--	--
Total PCBs	2.0E+00	1/(mg/kg-day)	1	2.0E+00	1/(mg/kg-day)	0.14	5.45E-01	B2	S	Nov 2011
Dioxin 2,3,7,8-TCDD TEQ [6]	1.3E+05	1/(mg/kg-day)	1	1.3E+05	1/(mg/kg-day)	0.03	8.08E-01	--	C	Nov 2011
Furan 2,3,7,8-TCDD TEQ [6]	1.3E+05	1/(mg/kg-day)	1	1.3E+05	1/(mg/kg-day)	0.03	6.57E-01	--	C	Nov 2011
Benzo(a)pyrene TEQ [7]	7.3E+00	1/(mg/kg-day)	1	7.3E+00	1/(mg/kg-day)	0.13	7.13E-01	B2	I	Nov 2011
Benz(a)anthracene	7.3E-01	1/(mg/kg-day)	1	7.3E-01	1/(mg/kg-day)	0.13	5.52E-01	B2	E	Nov 2011
Bis(2-ethylhexyl) phthalate	1.4E-02	1/(mg/kg-day)	1	1.4E-02	1/(mg/kg-day)	0.1	1.13E+00	B2	I	Nov 2011
Carbazole [8]	2.0E-02	1/(mg/kg-day)	1	2.0E-02	1/(mg/kg-day)	0.1	5.36E-02	--	[6]	Oct 2004
Chloroaniline, p-	2.0E-01	1/(mg/kg-day)	1	2.0E-01	1/(mg/kg-day)	0.1	4.96E-03	--	P	Nov 2011
Chlorophenol, 2-	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	--	--	D	--	--
Dichlorobenzene, 1,2-	--	--	--	--	--	--	--	D	--	--
Dichlorobenzene, 1,3-	--	--	--	--	--	--	--	D	--	--
Dichlorobenzene, 1,4-	5.4E-03	1/(mg/kg-day)	1	5.4E-03	1/(mg/kg-day)	--	4.53E-02	--	C	Nov 2011
Dichlorophenol, 2,4-	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	1.6E+00	1/(mg/kg-day)	1	1.6E+00	1/(mg/kg-day)	0.1	2.54E-01	B2	I	Nov 2011
Hexachlorobutadiene	7.8E-02	1/(mg/kg-day)	1	7.8E-02	1/(mg/kg-day)	0.1	8.10E-02	C	I	Nov 2011
Methylnaphthalene, 2-	--	--	--	--	--	--	--	D	--	--
Naphthalene	--	--	--	--	--	--	--	C	--	--
Nitrobenzene	--	--	--	--	--	--	--	B1	--	--
Pentachlorophenol	4.0E-01	1/(mg/kg-day)	1	4.0E-01	1/(mg/kg-day)	0.25	1.27E-01	B1	I	Nov 2011
Phenanthrene	--	--	--	--	--	0.13	1.44E-01	D	--	--

TABLE 6.1
CANCER TOXICITY DATA -- ORAL/DERMAL
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPC	SFo (1)		GI Absorption (2) (unitless)	SFd (2)		DAF (2) (unitless)	Kp (3) (cm/hr)	Cancer Class (4)	SFo	
	Value	Units		Value	Units				Source (1)	Date (5)
Trichlorobenzene, 1,2,4-	2.9E-02	1/(mg/kg-day)	1	2.9E-02	1/(mg/kg-day)	--	7.05E-02	D	P	Nov 2011
Benzene	5.5E-02	1/(mg/kg-day)	1	5.5E-02	1/(mg/kg-day)	--	1.49E-02	A	I	Nov 2011
Chlorobenzene	--	--	--	--	--	--	--	D	--	--
Chloroform	3.1E-02	1/(mg/kg-day)	1	3.1E-02	1/(mg/kg-day)	--	6.83E-03	B1	C	Nov 2011
Dichloroethane, 1,1-	5.7E-03	1/(mg/kg-day)	1	5.7E-03	1/(mg/kg-day)	--	6.75E-03	C	C	Nov 2011
Dichloroethane, 1,2-	9.1E-02	1/(mg/kg-day)	1	9.1E-02	1/(mg/kg-day)	--	4.20E-03	B2	I	--
Ethylbenzene	1.1E-02	1/(mg/kg-day)	1	1.1E-02	1/(mg/kg-day)	--	4.93E-02	D	C	Nov 2011
Methylene Chloride	7.5E-03	1/(mg/kg-day)	1	7.5E-03	1/(mg/kg-day)	--	3.54E-03	B2	I	Nov 2011
Tetrachloroethylene (PCE)	5.4E-01	1/(mg/kg-day)	1	5.4E-01	1/(mg/kg-day)	--	3.34E-02	--	C	Nov 2011
Trichloroethylene (TCE)	5.9E-03	1/(mg/kg-day)	1	5.9E-03	1/(mg/kg-day)	--	1.16E-02	--	C	Nov 2011
Vinyl Chloride	7.2E-01	1/(mg/kg-day)	1	7.2E-01	1/(mg/kg-day)	--	8.38E-03	A	I	Nov 2011
Xylenes, Mixed	--	--	--	--	--	--	--	D	--	--

Notes:

(1) SFo and values obtained from USEPA Regional Screening Level (RSL) Tables for Chemical Contaminants at Superfund Sites (updated November 2010). The RSL Tables cite the following primary sources:
I = IRIS; USEPA's Integrated Risk Information System available at: http://cfpub.epa.gov/ncea/iris/index.cfm
P = PPRTV; the Provisional Peer Reviewed Toxicity Values derived for the USEPA Superfund program (not publicly available). P(X) indicates a withdrawn val
A = ATSDR; the Agency for Toxic Substances and Disease Registry Minimal Risk Levels (MRLS) available at: http://www.atsdr.cdc.gov/mrls/
C = California EPA toxicity values available at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST; the USEPA Superfund program's Health Effects Summary Tables (not publicly available)

(2) Gastrointestinal absorption factors (GIABS) and dermal absorption factors (DAF) obtained from USEPA RSL Tables (November 2010). RfDd values was calcluated as follows: SFd = SFo / GI Abs.

(3) Dermal permeability (Kp) coefficients obtained from RAGS Part E Exhibit 3-1 (Inorganics) and USEPA's EPI DermWIN v2.0 (organics).

(4) Cancer class reported by IRIS (USEPA, 2011):
"--" = Not reported by IRIS
A = Human carcinogen (1986); Known/likely human carcinogen (1996)
B1 = Probable human carcinogen - based on limited evidence of carcinogenicity in humans (1986); Likely to be carcinogenic to humans (1999; 2005)
B2 = Probable human carcinogen - based on sufficient evidence of carcinogenicity in animals (1986)
C = Possible human carcinogen (1986)
D = Not classifiable as to human carcinogenicity (1986); cannot be determined (1996); data are inadequate for an assessment of human carcinogenic potential (1999); inadequat information to assess carcinogenic potential (2005)

(5) Date of most recent RSL Tables.

(6) Concentrations of dioxins and furans are normalized to 2,3,7,8-TCDD using the World Health Organization (2005) toxicity equivalency factors.

(7) Concentrations of carcinogenic polycyclic aromatic hydrocarbons are normalized to benzo(a)pyrene using the toxicity equivalency factors obtained from the USEPA *Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons* (July 1993).

(8) SFo for carbazole obtained from the 2004 USEPA Region 9 Preliminary Remediation Goal (PRG) Tables.

Definitions:
SFo = Oral Slope Factor
SFd = Dermal Slope Factor
DAF = Dermal Absorption Fraction
Kp = Dermal Permeability Coefficient
"--" = Not applicable

TABLE 6.2
CANCER TOXICITY DATA -- INHALATION
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPC	URF [1]		VF [2] (m^3/kg)	Cancer Class [3]	URF	
	Value	Units			Source [1]	Date [4]
Aluminum	--	--	--	--	--	
Antimony	--	--	--	--	--	--
Arsenic	4.3E-03	1/(ug/m^3)	--	A	I	Nov 2011
Barium	--	--	--	D	--	--
Beryllium	2.4E-03	1/(ug/m^3)	--	A	I	Nov 2011
Cadmium	1.8E-03	1/(ug/m^3)	--	B1	I	Nov 2011
Cadmium (water)	1.8E-03	1/(ug/m^3)	--	B1	I	Nov 2011
Chromium, Hexavalent	8.4E-02	1/(ug/m^3)	--	A	S	Nov 2011
Cobalt	9.0E-03	1/(ug/m^3)	--	--	P	Nov 2011
Copper	--	--	--	D	--	--
Iron	--	--	--	--	--	--
Lead	--	--	--	B2	--	--
Manganese	--	--	--	D	--	--
Mercury (elemental)	--	--	--	D	--	--
Mercury (inorganic)	--	--	--	--	--	--
Methyl Mercury	--	--	--	C	--	--
Nickel	2.6E-04	1/(ug/m^3)	--	--	C	Nov 2011
Silver	--	--	--	D	--	--
Vanadium	--	--	--	--	--	--
Zinc	--	--	--	D	--	--
Cyanide	--	--	--	D	--	--
Total PCBs	5.7E-04	1/(ug/m^3)	--	B2	S	Nov 2011
Dioxin 2,3,7,8-TCDD TEQ [5]	3.8E+01	1/(ug/m^3)	--	--	C	Nov 2011
Furan 2,3,7,8-TCDD TEQ [5]	3.8E+01	1/(ug/m^3)	--	--	C	Nov 2011
Benzo(a)pyrene TEQ [6]	1.1E-03	1/(ug/m^3)	--	B2	C	Nov 2011
Benz(a)anthracene	1.1E-04	1/(ug/m^3)	--	B2	C	Nov 2011
Bis(2-ethylhexyl) phthalate	2.4E-06	1/(ug/m^3)	--	B2	C	Nov 2011
Carbazole	--	--	--	--	--	--
Chloroaniline, p-	--	--	--	--	--	--
Chlorophenol, 2-	--	--	--	--	--	--
Dibenzofuran	--	--	--	D	--	--
Dichlorobenzene, 1,2-	--	--	--	D	--	--
Dichlorobenzene, 1,3-	--	--	--	D	--	--
Dichlorobenzene, 1,4-	1.1E-05	1/(ug/m^3)	7.67E+03	--	C	Nov 2011
Dichlorophenol, 2,4-	--	--	--	--	--	--
Hexachlorobenzene	4.6E-04	1/(ug/m^3)	--	B2	I	Nov 2011
Hexachlorobutadiene	2.2E-05	1/(ug/m^3)	--	C	I	Nov 2011
Methylnaphthalene, 2-	--	--	--	D	--	--
Naphthalene	3.4E-05	1/(ug/m^3)	3.40E+04	C	C	Nov 2011
Nitrobenzene	4.0E-05	1/(ug/m^3)	5.38E+04	B1	I	Nov 2011
Pentachlorophenol	5.1E-06	1/(ug/m^3)	--	B1	C	Nov 2011
Phenanthrene	--	--	--	D	--	--
Trichlorobenzene, 1,2,4-	--	--	--	D	--	--

TABLE 6.2
CANCER TOXICITY DATA -- INHALATION
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPC	URF (1)		VF (2) (m^3/kg)	Cancer Class (3)	URF	
	Value	Units			Source (1)	Date (4)
Benzene	7.8E-06	1/(ug/m^3)	2.60E+03	A	I	Nov 2011
Chlorobenzene	--	--	--	D	--	--
Chloroform	2.3E-05	1/(ug/m^3)	1.93E+03	B1	I	Nov 2011
Dichloroethane, 1,1-	1.6E-06	1/(ug/m^3)	1.53E+03	C	C	Nov 2011
Dichloroethane, 1,2-	2.6E-05	1/(ug/m^3)	3.36E+03	B2	I	Nov 2011
Ethylbenzene	2.5E-06	1/(ug/m^3)	4.16E+03	D	C	Nov 2011
Methylene Chloride	4.7E-07	1/(ug/m^3)	1.61E+03	B2	I	Nov 2011
Tetrachloroethylene (PCE)	5.9E-06	1/(ug/m^3)	1.72E+03	--	C	Nov 2011
Trichloroethylene (TCE)	2.0E-06	1/(ug/m^3)	1.62E+03	--	C	Nov 2011
Vinyl Chloride	4.4E-06	1/(ug/m^3)	7.02E+02	A	I	Nov 2011
Xylenes, Mixed	--	--	--	D	--	--

Notes:
(1) SFo and values obtained from USEPA Regional Screening Level (RSL) Tables for Chemical Contaminants at Superfund Sites (updated November 2010). The RSL Tables cite the following
I = IRIS; USEPA's Integrated Risk Information System available at: http://cfpub.epa.gov/ncea/iris/index.cfm
P = PPRTV; the Provisional Peer Reviewed Toxicity Values derived for the USEPA Superfund program (not publicly available). P(X) indicates a withdrawn value.
A = ATSDR; the Agency for Toxic Substances and Disease Registry Minimal Risk Levels (MRLS) available at: http://www.atsdr.cdc.gov/mrls/
C = California EPA toxicity values available at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST; the USEPA Superfund program's Health Effects Summary Tables (not publicly available)
(2) Chemical-specific VFs were calculated using the default equation presented in the USEPA (1996) Soil Screening Guidance. Equations and inputs are presented in Attachment A.
(3) Cancer class reported by IRIS (USEPA, 2011):
"--" = Not reported by IRIS
A = Human carcinogen (1986); Known/likely human carcinogen (1996)
B1 = Probable human carcinogen - based on limited evidence of carcinogenicity in humans (1986); Likely to be carcinogenic to humans (1999; 2005)
B2 = Probable human carcinogen - based on sufficient evidence of carcinogenicity in animals (1986)
C = Possible human carcinogen (1986)
D = Not classifiable as to human carcinogenicity (1986); cannot be determined (1996); data are inadequate for an assessment of human carcinogenic potential (1999); inadequate information to assess carcinogenic potential (2005)
(4) Date of most recent RSL Tables.
(5) Concentrations of dioxins and furans are normalized to 2,3,7,8-TCDD using the World Health Organization (2005) toxicity equivalency factors.
(6) Concentrations of carcinogenic polycyclic aromatic hydrocarbons are normalized to benzo(a)pyrene using the toxicity equivalency factors obtained from the USEPA *Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons* (July 1993).

Definitions:
URF = Unit Risk Factor
VF = Volatilization Factor
"--" = Not applicable

TABLE 7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Ingestion	Aluminum	1.2E+04	mg/kg	4.4E-03	mg/kg-day	--	--	--	1.2E-02	mg/kg-day	1.0E+00	mg/kg-day	1.2E-02
				Antimony	1.3E+01	mg/kg	4.4E-06	mg/kg-day	--	--	--	1.2E-05	mg/kg-day	4.0E-04	mg/kg-day	3.1E-02
				Arsenic	2.2E+01	mg/kg	7.8E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.2E-05	2.2E-05	mg/kg-day	3.0E-04	mg/kg-day	7.3E-02
				Barium	2.0E+03	mg/kg	6.9E-04	mg/kg-day	--	--	--	1.9E-03	mg/kg-day	2.0E-01	mg/kg-day	9.7E-03
				Beryllium	3.8E+00	mg/kg	1.3E-06	mg/kg-day	--	--	--	3.7E-06	mg/kg-day	2.0E-03	mg/kg-day	1.9E-03
				Cadmium	3.8E+00	mg/kg	1.3E-06	mg/kg-day	--	--	--	3.7E-06	mg/kg-day	1.0E-03	mg/kg-day	3.7E-03
				Chromium, Hexavalent	2.9E+00	mg/kg	1.0E-06	mg/kg-day	5.0E-01	1/(mg/kg-day)	5.0E-07	2.8E-06	mg/kg-day	3.0E-03	mg/kg-day	9.3E-04
				Cobalt	6.1E+01	mg/kg	2.1E-05	mg/kg-day	--	--	--	6.0E-05	mg/kg-day	3.0E-04	mg/kg-day	2.0E-01
				Copper	1.7E+03	mg/kg	6.1E-04	mg/kg-day	--	--	--	1.7E-03	mg/kg-day	4.0E-02	mg/kg-day	4.3E-02
				Iron	6.3E+04	mg/kg	2.2E-02	mg/kg-day	--	--	--	6.2E-02	mg/kg-day	7.0E-01	mg/kg-day	8.8E-02
				Lead	6.0E+02	mg/kg	2.1E-04	mg/kg-day	--	--	--	5.8E-04	mg/kg-day	--	--	--
				Manganese	7.8E+02	mg/kg	2.7E-04	mg/kg-day	--	--	--	7.6E-04	mg/kg-day	2.4E-02	mg/kg-day	3.2E-02
				Mercury (elemental)	1.2E+02	mg/kg	4.3E-05	mg/kg-day	--	--	--	1.2E-04	mg/kg-day	1.6E-04	mg/kg-day	7.5E-01
				Mercury (inorganic)	1.1E+03	mg/kg	3.9E-04	mg/kg-day	--	--	--	1.1E-03	mg/kg-day	3.0E-04	mg/kg-day	3.6E+00
				Nickel	1.5E+02	mg/kg	5.2E-05	mg/kg-day	--	--	--	1.5E-04	mg/kg-day	2.0E-02	mg/kg-day	7.3E-03
				Silver	2.3E+00	mg/kg	8.1E-07	mg/kg-day	--	--	--	2.3E-06	mg/kg-day	5.0E-03	mg/kg-day	4.5E-04
				Vanadium	5.1E+01	mg/kg	1.8E-05	mg/kg-day	--	--	--	4.9E-05	mg/kg-day	7.0E-05	mg/kg-day	7.1E-01
				Zinc	1.3E+04	mg/kg	4.7E-03	mg/kg-day	--	--	--	1.3E-02	mg/kg-day	3.0E-01	mg/kg-day	4.4E-02
				Total PCBs	4.0E+00	mg/kg	1.4E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.8E-06	3.9E-06	mg/kg-day	2.0E-05	mg/kg-day	1.9E-01
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	4.2E-12	mg/kg-day	1.3E+05	1/(mg/kg-day)	5.5E-07	1.2E-11	mg/kg-day	1.0E-09	mg/kg-day	1.2E-02
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	1.5E-10	mg/kg-day	1.3E+05	1/(mg/kg-day)	2.0E-05	4.3E-10	mg/kg-day	1.0E-09	mg/kg-day	4.3E-01
				Benzo(a)pyrene TEQ	4.2E+00	mg/kg	1.5E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.1E-05	4.1E-06	mg/kg-day	--	--	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	1.4E-06	mg/kg-day	1.4E-02	1/(mg/kg-day)	2.0E-08	4.0E-06	mg/kg-day	2.0E-02	mg/kg-day	2.0E-04
				Dibenzofuran	6.7E-01	mg/kg	2.3E-07	mg/kg-day	--	--	--	6.5E-07	mg/kg-day	1.0E-03	mg/kg-day	6.5E-04
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	5.0E-08	mg/kg-day	5.4E-03	1/(mg/kg-day)	2.7E-10	1.4E-07	mg/kg-day	7.0E-02	mg/kg-day	2.0E-06
				Hexachlorobenzene	5.7E+01	mg/kg	2.0E-05	mg/kg-day	1.6E+00	1/(mg/kg-day)	3.2E-05	5.6E-05	mg/kg-day	8.0E-04	mg/kg-day	7.0E-02
				Hexachlorobutadiene	2.0E+00	mg/kg	6.9E-07	mg/kg-day	7.8E-02	1/(mg/kg-day)	5.4E-08	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
				Naphthalene	9.5E-01	mg/kg	3.3E-07	mg/kg-day	--	--	--	9.3E-07	mg/kg-day	2.0E-02	mg/kg-day	4.7E-05
				Benzene	5.2E-01	mg/kg	1.8E-07	mg/kg-day	5.5E-02	1/(mg/kg-day)	1.0E-08	5.1E-07	mg/kg-day	4.0E-03	mg/kg-day	1.3E-04
				Chloroform	3.3E-01	mg/kg	1.1E-07	mg/kg-day	3.1E-02	1/(mg/kg-day)	3.6E-09	3.2E-07	mg/kg-day	1.0E-02	mg/kg-day	3.2E-05
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	1.2E-08	mg/kg-day	5.4E-01	1/(mg/kg-day)	6.6E-09	3.4E-08	mg/kg-day	1.0E-02	mg/kg-day	3.4E-06
				Trichloroethylene (TCE)	2.8E+00	mg/kg	9.9E-07	mg/kg-day	5.9E-03	1/(mg/kg-day)	5.8E-09	2.8E-06	mg/kg-day	--	--	--
				Vinyl Chloride	1.0E-02	mg/kg	3.5E-09	mg/kg-day	7.2E-01	1/(mg/kg-day)	2.5E-09	9.9E-09	mg/kg-day	3.0E-03	mg/kg-day	3.3E-06
			Route Total								7.8E-05					6.3E+00
			Dermal Contact	Aluminum	1.2E+04	mg/kg	--	--	--	--	--	--	--	1.0E+00	mg/kg-day	--
				Antimony	1.3E+01	mg/kg	--	--	--	--	--	--	--	6.0E-05	mg/kg-day	--
				Arsenic	2.2E+01	mg/kg	1.5E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.3E-06	4.3E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
				Barium	2.0E+03	mg/kg	--	--	--	--	--	--	--	1.4E-02	mg/kg-day	--
				Beryllium	3.8E+00	mg/kg	--	--	--	--	--	--	--	1.4E-05	mg/kg-day	--
				Cadmium	3.8E+00	mg/kg	--	--	--	--	--	2.5E-08	mg/kg-day	2.5E-05	mg/kg-day	9.9E-04
				Chromium, Hexavalent	2.9E+00	mg/kg	--	--	2.0E+01	1/(mg/kg-day)	--	--	--	7.5E-05	mg/kg-day	--
				Cobalt	6.1E+01	mg/kg	--	--	--	--	--	--	--	3.0E-04	mg/kg-day	--
				Copper	1.7E+03	mg/kg	--	--	--	--	--	--	--	4.0E-02	mg/kg-day	--
				Iron	6.3E+04	mg/kg	--	--	--	--	--	--	--	7.0E-01	mg/kg-day	--
				Lead	6.0E+02	mg/kg	--	--	--	--	--	--	--	--	--	--
				Manganese	7.8E+02	mg/kg	--	--	--	--	--	--	--	9.6E-04	mg/kg-day	--
				Mercury (elemental)	1.2E+02	mg/kg	--	--	--	--	--	--	--	1.6E-04	mg/kg-day	--
				Mercury (inorganic)	1.1E+03	mg/kg	--	--	--	--	--	--	--	2.1E-05	mg/kg-day	--
				Nickel	1.5E+02	mg/kg	--	--	--	--	--	--	--	8.0E-04	mg/kg-day	--
				Silver	2.3E+00	mg/kg	--	--	--	--	--	--	--	2.0E-04	mg/kg-day	--
				Vanadium	5.1E+01	mg/kg	--	--	--	--	--	--	--	1.8E-06	mg/kg-day	--
				Zinc	1.3E+04	mg/kg	--	--	--	--	--	--	--	3.0E-01	mg/kg-day	--
				Total PCBs	4.0E+00	mg/kg	1.3E-06	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.6E-06	3.6E-06	mg/kg-day	2.0E-05	mg/kg-day	1.8E-01
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	8.4E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.1E-07	2.3E-12	mg/kg-day	1.0E-09	mg/kg-day	2.3E-03
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	3.1E-11	mg/kg-day	1.3E+05	1/(mg/kg-day)	4.0E-06	8.6E-11	mg/kg-day	1.0E-09	mg/kg-day	8.6E-02

TABLE 7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF			Intake		RfD		
					Value	Units	Value	Units	Value	Units	Cancer Risk	Value	Units	Value	Units	Hazard Quotient
Surface Soil (0 to 2 ft bgs) (continued)	Surface Soil (0 to 2 ft bgs) (continued)	Surface Soil (0 to 2 ft bgs) (continued)	Dermal Contact (continued)	Benzo(a)pyrene TEQ	4.2E+00	mg/kg	1.2E-06	mg/kg-day	7.3E+00	1/(mg/kg-day)	9.1E-06	--	--	--	--	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	9.4E-07	mg/kg-day	1.4E-02	1/(mg/kg-day)	1.3E-08	2.6E-06	mg/kg-day	2.0E-02	mg/kg-day	1.3E-04
				Dibenzofuran	6.7E-01	mg/kg	--	--	--	--	--	--	--	1.0E-03	mg/kg-day	--
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	--	--	5.4E-03	1/(mg/kg-day)	--	--	--	7.0E-02	mg/kg-day	--
				Hexachlorobenzene	5.7E+01	mg/kg	1.3E-05	mg/kg-day	1.6E+00	1/(mg/kg-day)	2.1E-05	3.7E-05	mg/kg-day	8.0E-04	mg/kg-day	4.6E-02
				Hexachlorobutadiene	2.0E+00	mg/kg	4.5E-07	mg/kg-day	7.8E-02	1/(mg/kg-day)	3.5E-08	1.3E-06	mg/kg-day	1.0E-03	mg/kg-day	1.3E-03
				Naphthalene	9.5E-01	mg/kg	--	--	--	--	--	8.0E-07	mg/kg-day	2.0E-02	mg/kg-day	4.0E-05
				Benzene	5.2E-01	mg/kg	--	--	5.5E-02	1/(mg/kg-day)	--	--	--	4.0E-03	mg/kg-day	--
				Chloroform	3.3E-01	mg/kg	--	--	3.1E-02	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	--	--	5.4E-01	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Trichloroethylene (TCE)	2.8E+00	mg/kg	--	--	5.9E-03	1/(mg/kg-day)	--	--	--	--	--	--
				Vinyl Chloride	1.0E-02	mg/kg	--	--	7.2E-01	1/(mg/kg-day)	--	--	--	3.0E-03	mg/kg-day	--
			Route Total								3.9E-05					3.3E-01
	Exposure Medium Total										1.2E-04					6.6E+00
	Outdoor Air	Paritculates/ Vapors in Outdoor Air	Inhalation	Aluminum	1.2E+04	mg/kg	1.5E-03	µg/m^3	--	1/(µg/m^3)	--	4.2E-06	mg/m^3	5.0E-03	mg/m^3	8.4E-04
				Antimony	1.3E+01	mg/kg	1.5E-06	µg/m^3	--	1/(µg/m^3)	--	4.3E-09	mg/m^3	--	mg/m^3	--
				Arsenic	2.2E+01	mg/kg	2.7E-06	µg/m^3	4.3E-03	1/(µg/m^3)	1.2E-08	7.5E-09	mg/m^3	1.5E-05	mg/m^3	5.0E-04
				Barium	2.0E+03	mg/kg	2.4E-04	µg/m^3	--	1/(µg/m^3)	--	6.7E-07	mg/m^3	5.0E-04	mg/m^3	1.3E-03
				Beryllium	3.8E+00	mg/kg	4.6E-07	µg/m^3	2.4E-03	1/(µg/m^3)	1.1E-09	1.3E-09	mg/m^3	2.0E-05	mg/m^3	6.4E-05
				Cadmium	3.8E+00	mg/kg	4.6E-07	µg/m^3	1.8E-03	1/(µg/m^3)	8.3E-10	1.3E-09	mg/m^3	1.0E-05	mg/m^3	1.3E-04
				Chromium, Hexavalent	2.9E+00	mg/kg	3.5E-07	µg/m^3	8.4E-02	1/(µg/m^3)	2.9E-08	9.7E-10	mg/m^3	1.0E-04	mg/m^3	9.7E-06
				Cobalt	6.1E+01	mg/kg	7.4E-06	µg/m^3	9.0E-03	1/(µg/m^3)	6.6E-08	2.1E-08	mg/m^3	6.0E-06	mg/m^3	3.4E-03
				Copper	1.7E+03	mg/kg	2.1E-04	µg/m^3	--	1/(µg/m^3)	--	5.9E-07	mg/m^3	--	mg/m^3	--
				Iron	6.3E+04	mg/kg	7.6E-03	µg/m^3	--	1/(µg/m^3)	--	2.1E-05	mg/m^3	--	mg/m^3	--
				Lead	6.0E+02	mg/kg	7.2E-05	µg/m^3	--	1/(µg/m^3)	--	2.0E-07	mg/m^3	--	mg/m^3	--
				Manganese	7.8E+02	mg/kg	9.4E-05	µg/m^3	--	1/(µg/m^3)	--	2.6E-07	mg/m^3	5.0E-05	mg/m^3	5.3E-03
				Mercury (elemental)	1.2E+02	mg/kg	1.5E-05	µg/m^3	--	1/(µg/m^3)	--	1.3E-03	mg/m^3	3.0E-04	mg/m^3	4.2E+00
				Mercury (inorganic)	1.1E+03	mg/kg	1.3E-04	µg/m^3	--	1/(µg/m^3)	--	3.7E-07	mg/m^3	3.0E-05	mg/m^3	1.2E-02
				Nickel	1.5E+02	mg/kg	1.8E-05	µg/m^3	2.6E-04	1/(µg/m^3)	4.7E-09	5.0E-08	mg/m^3	9.0E-05	mg/m^3	5.6E-04
				Silver	2.3E+00	mg/kg	2.8E-07	µg/m^3	--	1/(µg/m^3)	--	7.8E-10	mg/m^3	--	mg/m^3	--
				Vanadium	5.1E+01	mg/kg	6.1E-06	µg/m^3	--	1/(µg/m^3)	--	1.7E-08	mg/m^3	1.0E-04	mg/m^3	1.7E-04
				Zinc	1.3E+04	mg/kg	1.6E-03	µg/m^3	--	1/(µg/m^3)	--	4.5E-06	mg/m^3	--	mg/m^3	--
				Total PCBs	4.0E+00	mg/kg	4.8E-07	µg/m^3	5.7E-04	1/(µg/m^3)	2.7E-10	1.3E-09	mg/m^3	--	mg/m^3	--
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	1.5E-12	µg/m^3	3.8E+01	1/(µg/m^3)	5.6E-11	4.1E-15	mg/m^3	4.0E-08	mg/m^3	1.0E-07
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	5.3E-11	µg/m^3	3.8E+01	1/(µg/m^3)	2.0E-09	1.5E-13	mg/m^3	4.0E-08	mg/m^3	3.7E-06
				Benzo(a)pyrene TEQ	4.2E+00	mg/kg	5.0E-07	µg/m^3	1.1E-03	1/(µg/m^3)	5.5E-10	1.4E-09	mg/m^3	--	mg/m^3	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	4.9E-07	µg/m^3	2.4E-06	1/(µg/m^3)	1.2E-12	1.4E-09	mg/m^3	--	mg/m^3	--
				Dibenzofuran	6.7E-01	mg/kg	8.1E-08	µg/m^3	--	1/(µg/m^3)	--	2.3E-10	mg/m^3	--	mg/m^3	--
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	1.5E-03	µg/m^3	1.1E-05	1/(µg/m^3)	1.7E-08	4.3E-06	mg/m^3	8.0E-01	mg/m^3	5.4E-06
				Hexachlorobenzene	5.7E+01	mg/kg	6.9E-06	µg/m^3	4.6E-04	1/(µg/m^3)	3.2E-09	1.9E-08	mg/m^3	--	mg/m^3	--
				Hexachlorobutadiene	2.0E+00	mg/kg	2.4E-07	µg/m^3	2.2E-05	1/(µg/m^3)	5.2E-12	6.6E-10	mg/m^3	--	mg/m^3	--
				Naphthalene	9.5E-01	mg/kg	2.3E-03	µg/m^3	3.4E-05	1/(µg/m^3)	7.8E-08	6.4E-06	mg/m^3	3.0E-03	mg/m^3	2.1E-03
				Benzene	5.2E-01	mg/kg	1.6E-02	µg/m^3	7.8E-06	1/(µg/m^3)	1.3E-07	4.6E-05	mg/m^3	3.0E-02	mg/m^3	1.5E-03
				Chloroform	3.3E-01	mg/kg	1.4E-02	µg/m^3	2.3E-05	1/(µg/m^3)	3.2E-07	3.9E-05	mg/m^3	9.8E-02	mg/m^3	4.0E-04
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	1.6E-03	µg/m^3	5.9E-06	1/(µg/m^3)	9.7E-09	4.6E-06	mg/m^3	2.7E-01	mg/m^3	1.7E-05
				Trichloroethylene (TCE)	2.8E+00	mg/kg	1.4E-01	µg/m^3	2.0E-06	1/(µg/m^3)	2.8E-07	9.6E-10	mg/m^3	--	mg/m^3	--
				Vinyl Chloride	1.0E-02	mg/kg	1.2E-03	µg/m^3	4.4E-06	1/(µg/m^3)	5.2E-09	3.3E-06	mg/m^3	1.0E-01	mg/m^3	3.3E-05
			Route Total								9.6E-07					4.2E+00
	Exposure Medium Total										9.6E-07					4.2E+00
Surface Soil Total											1.2E-04					1.1E+01
Groundwater	Overburden Groundwater	Potable Groundwater	Ingestion	Antimony	6.0E+00	µg/L	2.1E-05	mg/kg-day	--	--	--	5.9E-05	mg/kg-day	4.0E-04	mg/kg-day	1.5E-01
				Arsenic	2.8E+02	µg/L	9.6E-04	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.4E-03	2.7E-03	mg/kg-day	3.0E-04	mg/kg-day	9.0E+00
				Barium	1.4E+04	µg/L	5.0E-02	mg/kg-day	--	--	--	1.4E-01	mg/kg-day	2.0E-01	mg/kg-day	6.9E-01
				Cadmium	2.3E+01	µg/L	8.0E-05	mg/kg-day	--	--	--	2.2E-04	mg/kg-day	5.0E-04	mg/kg-day	4.5E-01
				Cobalt	1.9E+02	µg/L	6.6E-04	mg/kg-day	--	--	--	1.9E-03	mg/kg-day	3.0E-04	mg/kg-day	6.2E+00

TABLE 7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater (continued)	Overburden Groundwater (continued)	Potable Groundwater (continued)	Ingestion (continued)	Iron	3.5E+05	µg/L	1.2E+00	mg/kg-day	--	--	--	3.4E+00	mg/kg-day	7.0E-01	mg/kg-day	4.8E+00
				Manganese	2.2E+05	µg/L	7.7E-01	mg/kg-day	--	--	--	2.1E+00	mg/kg-day	2.4E-02	mg/kg-day	8.9E+01
				Mercury	2.3E+02	µg/L	8.1E-04	mg/kg-day	--	--	--	2.3E-03	mg/kg-day	3.0E-04	mg/kg-day	7.6E+00
				Methyl Mercury	1.7E+02	µg/L	5.9E-04	mg/kg-day	--	--	--	1.6E-03	mg/kg-day	1.0E-04	mg/kg-day	1.6E+01
				Vanadium	1.4E+02	µg/L	4.8E-04	mg/kg-day	--	--	--	1.3E-03	mg/kg-day	7.0E-05	mg/kg-day	1.9E+01
				Zinc	1.7E+03	µg/L	5.9E-03	mg/kg-day	--	--	--	1.7E-02	mg/kg-day	3.0E-01	mg/kg-day	5.5E-02
				Cyanide	7.7E+01	µg/L	2.7E-04	mg/kg-day	--	--	--	7.5E-04	mg/kg-day	2.0E-02	mg/kg-day	3.8E-02
				Dioxin 2,3,7,8-TCDD TEQ	1.9E-05	µg/L	6.6E-11	mg/kg-day	1.3E+05	1/(mg/kg-day)	8.6E-06	1.9E-10	mg/kg-day	1.0E-09	mg/kg-day	1.9E-01
				Furan 2,3,7,8-TCDD TEQ	1.6E-04	µg/L	5.7E-10	mg/kg-day	1.3E+05	1/(mg/kg-day)	7.3E-05	1.6E-09	mg/kg-day	1.0E-09	mg/kg-day	1.6E+00
				Benz(a)anthracene	7.8E-01	µg/L	2.7E-06	mg/kg-day	7.3E-01	1/(mg/kg-day)	2.0E-06	7.6E-06	mg/kg-day	--	--	--
				Naphthalene	5.6E+02	µg/L	2.0E-03	mg/kg-day	--	--	--	5.5E-03	mg/kg-day	2.0E-02	mg/kg-day	2.7E-01
				Carbazole	1.4E+02	µg/L	5.0E-04	mg/kg-day	2.0E-02	1/(mg/kg-day)	1.0E-05	1.4E-03	mg/kg-day	--	--	--
				Chloroaniline, p-	4.5E+03	µg/L	1.6E-02	mg/kg-day	2.0E-01	1/(mg/kg-day)	3.1E-03	4.4E-02	mg/kg-day	4.0E-03	mg/kg-day	1.1E+01
				Dibenzofuran	1.6E+01	µg/L	5.7E-05	mg/kg-day	--	--	--	1.6E-04	mg/kg-day	1.0E-03	mg/kg-day	1.6E-01
				Dichlorobenzene, 1,2-	4.2E+03	µg/L	1.5E-02	mg/kg-day	--	--	--	4.1E-02	mg/kg-day	9.0E-02	mg/kg-day	4.6E-01
				Dichlorobenzene, 1,3-	2.0E+02	µg/L	7.0E-04	mg/kg-day	--	--	--	1.9E-03	mg/kg-day	9.0E-02	mg/kg-day	2.2E-02
				Dichlorobenzene, 1,4-	5.8E+02	µg/L	2.0E-03	mg/kg-day	5.4E-03	1/(mg/kg-day)	1.1E-05	5.7E-03	mg/kg-day	7.0E-02	mg/kg-day	8.1E-02
				Hexachlorobenzene	1.0E+00	µg/L	3.5E-06	mg/kg-day	1.6E+00	1/(mg/kg-day)	5.6E-06	9.8E-06	mg/kg-day	8.0E-04	mg/kg-day	1.2E-02
				Nitrobenzene	5.5E+01	µg/L	1.9E-04	mg/kg-day	--	--	--	5.4E-04	mg/kg-day	2.0E-03	mg/kg-day	2.7E-01
				Dichlorophenol, 2,4-	1.2E+01	µg/L	4.1E-05	mg/kg-day	--	--	--	1.1E-04	mg/kg-day	3.0E-03	mg/kg-day	3.8E-02
				Chlorophenol, 2-	2.6E+01	µg/L	9.1E-05	mg/kg-day	--	--	--	2.6E-04	mg/kg-day	5.0E-03	mg/kg-day	5.1E-02
				Pentachlorophenol	1.9E+00	µg/L	6.5E-06	mg/kg-day	4.0E-01	1/(mg/kg-day)	2.6E-06	1.8E-05	mg/kg-day	5.0E-03	mg/kg-day	3.7E-03
				Trichlorobenzene, 1,2,4-	2.9E+02	µg/L	1.0E-03	mg/kg-day	2.9E-02	1/(mg/kg-day)	2.9E-05	2.8E-03	mg/kg-day	1.0E-02	mg/kg-day	2.8E-01
				Benzene	8.5E+02	µg/L	3.0E-03	mg/kg-day	5.5E-02	1/(mg/kg-day)	1.6E-04	8.3E-03	mg/kg-day	4.0E-03	mg/kg-day	2.1E+00
				Chlorobenzene	1.6E+04	µg/L	5.7E-02	mg/kg-day	--	--	--	1.6E-01	mg/kg-day	2.0E-02	mg/kg-day	7.9E+00
				Chloroform	3.5E+00	µg/L	1.2E-05	mg/kg-day	3.1E-02	1/(mg/kg-day)	3.8E-07	3.4E-05	mg/kg-day	1.0E-02	mg/kg-day	3.4E-03
				Dichloroethane, 1,1-	2.6E+00	µg/L	9.1E-06	mg/kg-day	5.7E-03	1/(mg/kg-day)	5.2E-08	2.5E-05	mg/kg-day	2.0E-01	mg/kg-day	1.3E-04
				Dichloroethane, 1,2-	1.8E+00	µg/L	6.3E-06	mg/kg-day	9.1E-02	1/(mg/kg-day)	5.7E-07	1.8E-05	mg/kg-day	2.0E-02	mg/kg-day	8.8E-04
				Ethylbenzene	3.0E+01	µg/L	1.1E-04	mg/kg-day	1.1E-02	1/(mg/kg-day)	1.2E-06	3.0E-04	mg/kg-day	1.0E-01	mg/kg-day	3.0E-03
				Methylene Chloride	2.0E+03	µg/L	6.8E-03	mg/kg-day	7.5E-03	1/(mg/kg-day)	5.1E-05	1.9E-02	mg/kg-day	6.0E-02	mg/kg-day	3.2E-01
				Tetrachloroethylene (PCE)	6.9E+00	µg/L	2.4E-05	mg/kg-day	5.4E-01	1/(mg/kg-day)	1.3E-05	6.8E-05	mg/kg-day	1.0E-02	mg/kg-day	6.8E-03
				Vinyl Chloride	7.1E-01	µg/L	2.5E-06	mg/kg-day	7.2E-01	1/(mg/kg-day)	1.8E-06	6.9E-06	mg/kg-day	3.0E-03	mg/kg-day	2.3E-03
				Xylenes, Mixed	1.3E+02	µg/L	4.5E-04	mg/kg-day	--	--	--	1.3E-03	mg/kg-day	2.0E-01	mg/kg-day	6.3E-03
			Route Total								4.9E-03					1.8E+02
	Exposure Medium Total										4.9E-03					1.8E+02
Groundwater Total											4.9E-03					1.8E+02
										Total of Receptor Risks Across All Media	**5.1E-03**				**Total of Receptor Hazards Across All Media**	**1.9E+02**

TABLE 7.1.CTE
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Ingestion	Aluminum	1.2E+04	mg/kg	7.1E-04	mg/kg-day	--	--	--	5.5E-03	mg/kg-day	1.0E+00	mg/kg-day	5.5E-03
				Antimony	1.3E+01	mg/kg	7.2E-07	mg/kg-day	--	--	--	5.6E-06	mg/kg-day	4.0E-04	mg/kg-day	1.4E-02
				Arsenic	2.2E+01	mg/kg	1.3E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.9E-06	9.8E-06	mg/kg-day	3.0E-04	mg/kg-day	3.3E-02
				Barium	2.0E+03	mg/kg	1.1E-04	mg/kg-day	--	--	--	8.7E-04	mg/kg-day	2.0E-01	mg/kg-day	4.4E-03
				Beryllium	3.8E+00	mg/kg	2.1E-07	mg/kg-day	--	--	--	1.7E-06	mg/kg-day	2.0E-03	mg/kg-day	8.4E-04
				Cadmium	3.8E+00	mg/kg	2.2E-07	mg/kg-day	--	--	--	1.7E-06	mg/kg-day	1.0E-03	mg/kg-day	1.7E-03
				Chromium, Hexavalent	2.9E+00	mg/kg	1.6E-07	mg/kg-day	5.0E-01	1/(mg/kg-day)	8.1E-08	1.3E-06	mg/kg-day	3.0E-03	mg/kg-day	4.2E-04
				Cobalt	6.1E+01	mg/kg	3.5E-06	mg/kg-day	--	--	--	2.7E-05	mg/kg-day	3.0E-04	mg/kg-day	8.9E-02
				Copper	1.7E+03	mg/kg	9.9E-05	mg/kg-day	--	--	--	7.7E-04	mg/kg-day	4.0E-02	mg/kg-day	1.9E-02
				Iron	6.3E+04	mg/kg	3.6E-03	mg/kg-day	--	--	--	2.8E-02	mg/kg-day	7.0E-01	mg/kg-day	4.0E-02
				Lead	6.0E+02	mg/kg	3.4E-05	mg/kg-day	--	--	--	2.6E-04	mg/kg-day	--	--	--
				Manganese	7.8E+02	mg/kg	4.4E-05	mg/kg-day	--	--	--	3.4E-04	mg/kg-day	2.4E-02	mg/kg-day	1.4E-02
				Mercury (elemental)	1.2E+02	mg/kg	6.9E-06	mg/kg-day	--	--	--	5.4E-05	mg/kg-day	1.6E-04	mg/kg-day	3.4E-01
				Mercury (inorganic)	1.1E+03	mg/kg	6.2E-05	mg/kg-day	--	--	--	4.9E-04	mg/kg-day	3.0E-04	mg/kg-day	1.6E+00
				Nickel	1.5E+02	mg/kg	8.4E-06	mg/kg-day	--	--	--	6.5E-05	mg/kg-day	2.0E-02	mg/kg-day	3.3E-03
				Silver	2.3E+00	mg/kg	1.3E-07	mg/kg-day	--	--	--	1.0E-06	mg/kg-day	5.0E-03	mg/kg-day	2.0E-04
				Vanadium	5.1E+01	mg/kg	2.9E-06	mg/kg-day	--	--	--	2.2E-05	mg/kg-day	7.0E-05	mg/kg-day	3.2E-01
				Zinc	1.3E+04	mg/kg	7.6E-04	mg/kg-day	--	--	--	5.9E-03	mg/kg-day	3.0E-01	mg/kg-day	2.0E-02
				Total PCBs	4.0E+00	mg/kg	2.2E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	4.5E-07	1.7E-06	mg/kg-day	2.0E-05	mg/kg-day	8.7E-02
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	6.9E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	8.9E-08	5.3E-12	mg/kg-day	1.0E-09	mg/kg-day	5.3E-03
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	2.5E-11	mg/kg-day	1.3E+05	1/(mg/kg-day)	3.3E-06	2.0E-10	mg/kg-day	1.0E-09	mg/kg-day	2.0E-01
				Benzo(a)pyrene TEQ	4.2E+00	mg/kg	2.4E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.7E-06	1.8E-06	mg/kg-day	--	--	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	2.3E-07	mg/kg-day	1.4E-02	1/(mg/kg-day)	3.2E-09	1.8E-06	mg/kg-day	2.0E-02	mg/kg-day	9.0E-05
				Dibenzofuran	6.7E-01	mg/kg	3.8E-08	mg/kg-day	--	--	--	2.9E-07	mg/kg-day	1.0E-03	mg/kg-day	2.9E-04
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	8.2E-09	mg/kg-day	5.4E-03	1/(mg/kg-day)	4.4E-11	6.3E-08	mg/kg-day	7.0E-02	mg/kg-day	9.1E-07
				Hexachlorobenzene	5.7E+01	mg/kg	3.2E-06	mg/kg-day	1.6E+00	1/(mg/kg-day)	5.2E-06	2.5E-05	mg/kg-day	8.0E-04	mg/kg-day	3.1E-02
				Hexachlorobutadiene	2.0E+00	mg/kg	1.1E-07	mg/kg-day	7.8E-02	1/(mg/kg-day)	8.7E-09	8.7E-07	mg/kg-day	1.0E-03	mg/kg-day	8.7E-04
				Naphthalene	9.5E-01	mg/kg	5.4E-08	mg/kg-day	--	--	--	4.2E-07	mg/kg-day	2.0E-02	mg/kg-day	2.1E-05
				Benzene	5.2E-01	mg/kg	2.9E-08	mg/kg-day	5.5E-02	1/(mg/kg-day)	1.6E-09	2.3E-07	mg/kg-day	4.0E-03	mg/kg-day	5.7E-05
				Chloroform	3.3E-01	mg/kg	1.9E-08	mg/kg-day	3.1E-02	1/(mg/kg-day)	5.8E-10	1.4E-07	mg/kg-day	1.0E-02	mg/kg-day	1.4E-05
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	2.0E-09	mg/kg-day	5.4E-01	1/(mg/kg-day)	1.1E-09	1.5E-08	mg/kg-day	1.0E-02	mg/kg-day	1.5E-06
				Trichloroethylene (TCE)	2.8E+00	mg/kg	1.6E-07	mg/kg-day	5.9E-03	1/(mg/kg-day)	9.4E-10	1.2E-06	mg/kg-day	--	--	--
				Vinyl Chloride	1.0E-02	mg/kg	5.7E-10	mg/kg-day	7.2E-01	1/(mg/kg-day)	4.1E-10	4.4E-09	mg/kg-day	3.0E-03	mg/kg-day	1.5E-06
			Route Total								1.3E-05					2.8E+00
			Dermal Contact	Aluminum	1.2E+04	mg/kg	--	--	--	--	--	--	--	1.0E+00	mg/kg-day	--
				Antimony	1.3E+01	mg/kg	--	--	--	--	--	--	--	6.0E-05	mg/kg-day	--
				Arsenic	2.2E+01	mg/kg	5.0E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	7.5E-07	3.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.3E-02
				Barium	2.0E+03	mg/kg	--	--	--	--	--	--	--	1.4E-02	mg/kg-day	--
				Beryllium	3.8E+00	mg/kg	--	--	--	--	--	--	--	1.4E-05	mg/kg-day	--
				Cadmium	3.8E+00	mg/kg	--	--	--	--	--	2.2E-08	mg/kg-day	2.5E-05	mg/kg-day	8.9E-04
				Chromium, Hexavalent	2.9E+00	mg/kg	--	--	2.0E+01	1/(mg/kg-day)	--	--	--	7.5E-05	mg/kg-day	--
				Cobalt	6.1E+01	mg/kg	--	--	--	--	--	--	--	3.0E-04	mg/kg-day	--
				Copper	1.7E+03	mg/kg	--	--	--	--	--	--	--	4.0E-02	mg/kg-day	--
				Iron	6.3E+04	mg/kg	--	--	--	--	--	--	--	7.0E-01	mg/kg-day	--
				Lead	6.0E+02	mg/kg	--	--	--	--	--	--	--	--	--	--
				Manganese	7.8E+02	mg/kg	--	--	--	--	--	--	--	9.6E-04	mg/kg-day	--
				Mercury (elemental)	1.2E+02	mg/kg	--	--	--	--	--	--	--	1.6E-04	mg/kg-day	--
				Mercury (inorganic)	1.1E+03	mg/kg	--	--	--	--	--	--	--	2.1E-05	mg/kg-day	--
				Nickel	1.5E+02	mg/kg	--	--	--	--	--	--	--	8.0E-04	mg/kg-day	--
				Silver	2.3E+00	mg/kg	--	--	--	--	--	--	--	2.0E-04	mg/kg-day	--
				Vanadium	5.1E+01	mg/kg	--	--	--	--	--	--	--	1.8E-06	mg/kg-day	--
				Zinc	1.3E+04	mg/kg	--	--	--	--	--	--	--	3.0E-01	mg/kg-day	--
				Total PCBs	4.0E+00	mg/kg	4.2E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	8.3E-07	3.2E-06	mg/kg-day	2.0E-05	mg/kg-day	1.6E-01
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	2.7E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	3.5E-08	2.1E-12	mg/kg-day	1.0E-09	mg/kg-day	2.1E-03
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	9.9E-12	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.3E-06	7.7E-11	mg/kg-day	1.0E-09	mg/kg-day	7.7E-02

TABLE 7.1.CTE
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil (0 to 2 ft bgs) (continued)	Surface Soil (0 to 2 ft bgs) (continued)	Surface Soil (0 to 2 ft bgs) (continued)	Dermal Contact (continued)	Benzo(a)pyrene TEQ	4.2E+00	mg/kg	4.0E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.9E-06	--	--	--	--	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	3.0E-07	mg/kg-day	1.4E-02	1/(mg/kg-day)	4.3E-09	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Dibenzofuran	6.7E-01	mg/kg	--	--	--	--	--	--	--	1.0E-03	mg/kg-day	--
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	--	--	5.4E-03	1/(mg/kg-day)	--	--	--	7.0E-02	mg/kg-day	--
				Hexachlorobenzene	5.7E+01	mg/kg	4.3E-06	mg/kg-day	1.6E+00	1/(mg/kg-day)	6.8E-06	3.3E-05	mg/kg-day	8.0E-04	mg/kg-day	4.2E-02
				Hexachlorobutadiene	2.0E+00	mg/kg	1.5E-07	mg/kg-day	7.8E-02	1/(mg/kg-day)	1.1E-08	1.1E-06	mg/kg-day	1.0E-03	mg/kg-day	1.1E-03
				Naphthalene	9.5E-01	mg/kg	--	--	--	--	--	7.2E-07	mg/kg-day	2.0E-02	mg/kg-day	3.6E-05
				Benzene	5.2E-01	mg/kg	--	--	5.5E-02	1/(mg/kg-day)	--	--	--	4.0E-03	mg/kg-day	--
				Chloroform	3.3E-01	mg/kg	--	--	3.1E-02	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	--	--	5.4E-01	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Trichloroethylene (TCE)	2.8E+00	mg/kg	--	--	5.9E-03	1/(mg/kg-day)	--	--	--	--	--	--
				Vinyl Chloride	1.0E-02	mg/kg	--	--	7.2E-01	1/(mg/kg-day)	--	--	--	3.0E-03	mg/kg-day	--
			Route Total								1.3E-05					3.0E-01
	Exposure Medium Total										2.5E-05					3.1E+00
	Outdoor Air	Paritculates/ Vapors in Outdoor Air	Inhalation	Aluminum	1.2E+04	mg/kg	4.9E-04	µg/m^3	--	1/(µg/m^3)	--	3.8E-06	mg/m^3	5.0E-03	mg/m^3	7.6E-04
				Antimony	1.3E+01	mg/kg	5.0E-07	µg/m^3	--	1/(µg/m^3)	--	3.9E-09	mg/m^3	--	mg/m^3	--
				Arsenic	2.2E+01	mg/kg	8.7E-07	µg/m^3	4.3E-03	1/(µg/m^3)	3.7E-09	6.8E-09	mg/m^3	1.5E-05	mg/m^3	4.5E-04
				Barium	2.0E+03	mg/kg	7.8E-05	µg/m^3	--	1/(µg/m^3)	--	6.0E-07	mg/m^3	5.0E-04	mg/m^3	1.2E-03
				Beryllium	3.8E+00	mg/kg	1.5E-07	µg/m^3	2.4E-03	1/(µg/m^3)	3.6E-10	1.2E-09	mg/m^3	2.0E-05	mg/m^3	5.8E-05
				Cadmium	3.8E+00	mg/kg	1.5E-07	µg/m^3	1.8E-03	1/(µg/m^3)	2.7E-10	1.2E-09	mg/m^3	1.0E-05	mg/m^3	1.2E-04
				Chromium, Hexavalent	2.9E+00	mg/kg	1.1E-07	µg/m^3	8.4E-02	1/(µg/m^3)	9.4E-09	8.7E-10	mg/m^3	1.0E-04	mg/m^3	8.7E-06
				Cobalt	6.1E+01	mg/kg	2.4E-06	µg/m^3	9.0E-03	1/(µg/m^3)	2.1E-08	1.9E-08	mg/m^3	6.0E-06	mg/m^3	3.1E-03
				Copper	1.7E+03	mg/kg	6.8E-05	µg/m^3	--	1/(µg/m^3)	--	5.3E-07	mg/m^3	--	mg/m^3	--
				Iron	6.3E+04	mg/kg	2.5E-03	µg/m^3	--	1/(µg/m^3)	--	1.9E-05	mg/m^3	--	mg/m^3	--
				Lead	6.0E+02	mg/kg	2.3E-05	µg/m^3	--	1/(µg/m^3)	--	1.8E-07	mg/m^3	--	mg/m^3	--
				Manganese	7.8E+02	mg/kg	3.0E-05	µg/m^3	--	1/(µg/m^3)	--	2.4E-07	mg/m^3	5.0E-05	mg/m^3	4.7E-03
				Mercury (elemental)	1.2E+02	mg/kg	4.8E-06	µg/m^3	--	1/(µg/m^3)	--	1.1E-03	mg/m^3	3.0E-04	mg/m^3	3.8E+00
				Mercury (inorganic)	1.1E+03	mg/kg	4.3E-05	µg/m^3	--	1/(µg/m^3)	--	3.4E-07	mg/m^3	3.0E-05	mg/m^3	1.1E-02
				Nickel	1.5E+02	mg/kg	5.8E-06	µg/m^3	2.6E-04	1/(µg/m^3)	1.5E-09	4.5E-08	mg/m^3	9.0E-05	mg/m^3	5.0E-04
				Silver	2.3E+00	mg/kg	9.0E-08	µg/m^3	--	1/(µg/m^3)	--	7.0E-10	mg/m^3	--	mg/m^3	--
				Vanadium	5.1E+01	mg/kg	2.0E-06	µg/m^3	--	1/(µg/m^3)	--	1.5E-08	mg/m^3	1.0E-04	mg/m^3	1.5E-04
				Zinc	1.3E+04	mg/kg	5.2E-04	µg/m^3	--	1/(µg/m^3)	--	4.1E-06	mg/m^3	--	mg/m^3	--
				Total PCBs	4.0E+00	mg/kg	1.6E-07	µg/m^3	5.7E-04	1/(µg/m^3)	8.8E-11	1.2E-09	mg/m^3	--	mg/m^3	--
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	4.7E-13	µg/m^3	3.8E+01	1/(µg/m^3)	1.8E-11	3.7E-15	mg/m^3	4.0E-08	mg/m^3	9.2E-08
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	1.7E-11	µg/m^3	3.8E+01	1/(µg/m^3)	6.6E-10	1.3E-13	mg/m^3	4.0E-08	mg/m^3	3.4E-06
				Benzo(a)pyrene TEQ	4.2E+00	mg/kg	1.6E-07	µg/m^3	1.1E-03	1/(µg/m^3)	1.8E-10	1.3E-09	mg/m^3	--	mg/m^3	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	1.6E-07	µg/m^3	2.4E-06	1/(µg/m^3)	3.8E-13	1.2E-09	mg/m^3	--	mg/m^3	--
				Dibenzofuran	6.7E-01	mg/kg	2.6E-08	µg/m^3	--	1/(µg/m^3)	--	2.0E-10	mg/m^3	--	mg/m^3	--
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	5.0E-04	µg/m^3	1.1E-05	1/(µg/m^3)	5.5E-09	3.9E-06	mg/m^3	8.0E-01	mg/m^3	4.8E-06
				Hexachlorobenzene	5.7E+01	mg/kg	2.2E-06	µg/m^3	4.6E-04	1/(µg/m^3)	1.0E-09	1.7E-08	mg/m^3	--	mg/m^3	--
				Hexachlorobutadiene	2.0E+00	mg/kg	7.7E-08	µg/m^3	2.2E-05	1/(µg/m^3)	1.7E-12	6.0E-10	mg/m^3	--	mg/m^3	--
				Naphthalene	9.5E-01	mg/kg	7.4E-04	µg/m^3	3.4E-05	1/(µg/m^3)	2.5E-08	5.8E-06	mg/m^3	3.0E-03	mg/m^3	1.9E-03
				Benzene	5.2E-01	mg/kg	5.3E-03	µg/m^3	7.8E-06	1/(µg/m^3)	4.1E-08	4.1E-05	mg/m^3	3.0E-02	mg/m^3	1.4E-03
				Chloroform	3.3E-01	mg/kg	4.5E-03	µg/m^3	2.3E-05	1/(µg/m^3)	1.0E-07	3.5E-05	mg/m^3	9.8E-02	mg/m^3	3.6E-04
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	5.3E-04	µg/m^3	5.9E-06	1/(µg/m^3)	3.1E-09	4.1E-06	mg/m^3	2.7E-01	mg/m^3	1.5E-05
				Trichloroethylene (TCE)	2.8E+00	mg/kg	4.6E-02	µg/m^3	2.0E-06	1/(µg/m^3)	9.2E-08	8.6E-10	mg/m^3	--	mg/m^3	--
				Vinyl Chloride	1.0E-02	mg/kg	3.8E-04	µg/m^3	4.4E-06	1/(µg/m^3)	1.7E-09	3.0E-06	mg/m^3	1.0E-01	mg/m^3	3.0E-05
			Route Total								3.1E-07					3.8E+00
	Exposure Medium Total										3.1E-07					3.8E+00
Surface Soil Total											2.6E-05					7.0E+00
Groundwater	Overburden Groundwater	Potable Groundwater	Ingestion	Antimony	6.0E+00	µg/L	6.8E-06	mg/kg-day	--	--	--	5.3E-05	mg/kg-day	4.0E-04	mg/kg-day	1.3E-01
				Arsenic	2.8E+02	µg/L	3.1E-04	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.7E-04	2.4E-03	mg/kg-day	3.0E-04	mg/kg-day	8.1E+00
				Barium	1.4E+04	µg/L	1.6E-02	mg/kg-day	--	--	--	1.3E-01	mg/kg-day	2.0E-01	mg/kg-day	6.3E-01
				Cadmium	2.3E+01	µg/L	2.6E-05	mg/kg-day	--	--	--	2.0E-04	mg/kg-day	5.0E-04	mg/kg-day	4.0E-01
				Cobalt	1.9E+02	µg/L	2.2E-04	mg/kg-day	--	--	--	1.7E-03	mg/kg-day	3.0E-04	mg/kg-day	5.6E+00

TABLE 7.1.CTE
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater (continued)	Overburden Groundwater (continued)	Potable Groundwater (continued)	Ingestion (continued)	Iron	3.5E+05	µg/L	3.9E-01	mg/kg-day	--	--	--	3.0E+00	mg/kg-day	7.0E-01	mg/kg-day	4.4E+00
				Manganese	2.2E+05	µg/L	2.5E-01	mg/kg-day	--	--	--	1.9E+00	mg/kg-day	2.4E-02	mg/kg-day	8.0E+01
				Mercury	2.3E+02	µg/L	2.6E-04	mg/kg-day	--	--	--	2.1E-03	mg/kg-day	3.0E-04	mg/kg-day	6.8E+00
				Methyl Mercury	1.7E+02	µg/L	1.9E-04	mg/kg-day	--	--	--	1.5E-03	mg/kg-day	1.0E-04	mg/kg-day	1.5E+01
				Vanadium	1.4E+02	µg/L	1.5E-04	mg/kg-day	--	--	--	1.2E-03	mg/kg-day	7.0E-05	mg/kg-day	1.7E+01
				Zinc	1.7E+03	µg/L	1.9E-03	mg/kg-day	--	--	--	1.5E-02	mg/kg-day	3.0E-01	mg/kg-day	5.0E-02
				Cyanide	7.7E+01	µg/L	8.7E-05	mg/kg-day	--	--	--	6.8E-04	mg/kg-day	2.0E-02	mg/kg-day	3.4E-02
				Dioxin 2,3,7,8-TCDD TEQ	1.9E-05	µg/L	2.2E-11	mg/kg-day	1.3E+05	1/(mg/kg-day)	2.8E-06	1.7E-10	mg/kg-day	1.0E-09	mg/kg-day	1.7E-01
				Furan 2,3,7,8-TCDD TEQ	1.6E-04	µg/L	1.8E-10	mg/kg-day	1.3E+05	1/(mg/kg-day)	2.4E-05	1.4E-09	mg/kg-day	1.0E-09	mg/kg-day	1.4E+00
				Benz(a)anthracene	7.8E-01	µg/L	8.8E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.4E-07	6.8E-06	mg/kg-day	--	--	--
				Naphthalene	5.6E+02	µg/L	6.4E-04	mg/kg-day	--	--	--	4.9E-03	mg/kg-day	2.0E-02	mg/kg-day	2.5E-01
				Carbazole	1.4E+02	µg/L	1.6E-04	mg/kg-day	2.0E-02	1/(mg/kg-day)	3.2E-06	1.3E-03	mg/kg-day	--	--	--
				Chloroaniline, p-	4.5E+03	µg/L	5.0E-03	mg/kg-day	2.0E-01	1/(mg/kg-day)	1.0E-03	3.9E-02	mg/kg-day	4.0E-03	mg/kg-day	9.8E+00
				Dibenzofuran	1.6E+01	µg/L	1.8E-05	mg/kg-day	--	--	--	1.4E-04	mg/kg-day	1.0E-03	mg/kg-day	1.4E-01
				Dichlorobenzene, 1,2-	4.2E+03	µg/L	4.8E-03	mg/kg-day	--	--	--	3.7E-02	mg/kg-day	9.0E-02	mg/kg-day	4.1E-01
				Dichlorobenzene, 1,3-	2.0E+02	µg/L	2.3E-04	mg/kg-day	--	--	--	1.8E-03	mg/kg-day	9.0E-02	mg/kg-day	1.9E-02
				Dichlorobenzene, 1,4-	5.8E+02	µg/L	6.6E-04	mg/kg-day	5.4E-03	1/(mg/kg-day)	3.6E-06	5.1E-03	mg/kg-day	7.0E-02	mg/kg-day	7.3E-02
				Hexachlorobenzene	1.0E+00	µg/L	1.1E-06	mg/kg-day	1.6E+00	1/(mg/kg-day)	1.8E-06	8.8E-06	mg/kg-day	8.0E-04	mg/kg-day	1.1E-02
				Nitrobenzene	5.5E+01	µg/L	6.2E-05	mg/kg-day	--	--	--	4.8E-04	mg/kg-day	2.0E-03	mg/kg-day	2.4E-01
				Dichlorophenol, 2,4-	1.2E+01	µg/L	1.3E-05	mg/kg-day	--	--	--	1.0E-04	mg/kg-day	3.0E-03	mg/kg-day	3.4E-02
				Chlorophenol, 2-	2.6E+01	µg/L	3.0E-05	mg/kg-day	--	--	--	2.3E-04	mg/kg-day	5.0E-03	mg/kg-day	4.6E-02
				Pentachlorophenol	1.9E+00	µg/L	2.1E-06	mg/kg-day	4.0E-01	1/(mg/kg-day)	8.5E-07	1.6E-05	mg/kg-day	5.0E-03	mg/kg-day	3.3E-03
				Trichlorobenzene, 1,2,4-	2.9E+02	µg/L	3.2E-04	mg/kg-day	2.9E-02	1/(mg/kg-day)	9.4E-06	2.5E-03	mg/kg-day	1.0E-02	mg/kg-day	2.5E-01
				Benzene	8.5E+02	µg/L	9.6E-04	mg/kg-day	5.5E-02	1/(mg/kg-day)	5.3E-05	7.5E-03	mg/kg-day	4.0E-03	mg/kg-day	1.9E+00
				Chlorobenzene	1.6E+04	µg/L	1.8E-02	mg/kg-day	--	--	--	1.4E-01	mg/kg-day	2.0E-02	mg/kg-day	7.1E+00
				Chloroform	3.5E+00	µg/L	4.0E-06	mg/kg-day	3.1E-02	1/(mg/kg-day)	1.2E-07	3.1E-05	mg/kg-day	1.0E-02	mg/kg-day	3.1E-03
				Dichloroethane, 1,1-	2.6E+00	µg/L	2.9E-06	mg/kg-day	5.7E-03	1/(mg/kg-day)	1.7E-08	2.3E-05	mg/kg-day	2.0E-01	mg/kg-day	1.1E-04
				Dichloroethane, 1,2-	1.8E+00	µg/L	2.0E-06	mg/kg-day	9.1E-02	1/(mg/kg-day)	1.9E-07	1.6E-05	mg/kg-day	2.0E-02	mg/kg-day	7.9E-04
				Ethylbenzene	3.0E+01	µg/L	3.4E-05	mg/kg-day	1.1E-02	1/(mg/kg-day)	3.8E-07	2.7E-04	mg/kg-day	1.0E-01	mg/kg-day	2.7E-03
				Methylene Chloride	2.0E+03	µg/L	2.2E-03	mg/kg-day	7.5E-03	1/(mg/kg-day)	1.7E-05	1.7E-02	mg/kg-day	6.0E-02	mg/kg-day	2.9E-01
				Tetrachloroethylene (PCE)	6.9E+00	µg/L	7.8E-06	mg/kg-day	5.4E-01	1/(mg/kg-day)	4.2E-06	6.1E-05	mg/kg-day	1.0E-02	mg/kg-day	6.1E-03
				Vinyl Chloride	7.1E-01	µg/L	8.0E-07	mg/kg-day	7.2E-01	1/(mg/kg-day)	5.8E-07	6.3E-06	mg/kg-day	3.0E-03	mg/kg-day	2.1E-03
				Xylenes, Mixed	1.3E+02	µg/L	1.4E-04	mg/kg-day	--	--	--	1.1E-03	mg/kg-day	2.0E-01	mg/kg-day	5.6E-03
			Route Total								1.6E-03					1.6E+02
	Exposure Medium Total										1.6E-03					1.6E+02
Groundwater Total											1.6E-03					1.6E+02
										Total of Receptor Risks Across All Media	**1.6E-03**				**Total of Receptor Hazards Across All Media**	**1.7E+02**

Table 7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE SITE-SPECIFIC WORKER - SURFACE SOIL
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Site-Specific Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Ingestion	Aluminum	1.2E+04	mg/kg	1.7E-03	mg/kg-day	--	--	--	4.9E-03	mg/kg-day	1.0E+00	mg/kg-day	4.9E-03
				Antimony	1.3E+01	mg/kg	1.8E-06	mg/kg-day	--	--	--	5.0E-06	mg/kg-day	4.0E-04	mg/kg-day	1.2E-02
				Arsenic	2.2E+01	mg/kg	3.1E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.7E-06	8.7E-06	mg/kg-day	3.0E-04	mg/kg-day	2.9E-02
				Barium	2.0E+03	mg/kg	2.8E-04	mg/kg-day	--	--	--	7.8E-04	mg/kg-day	2.0E-01	mg/kg-day	3.9E-03
				Beryllium	3.8E+00	mg/kg	5.3E-07	mg/kg-day	--	--	--	1.5E-06	mg/kg-day	2.0E-03	mg/kg-day	7.4E-04
				Cadmium	3.8E+00	mg/kg	5.3E-07	mg/kg-day	--	--	--	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	1.5E-03
				Chromium, Hexavalent	2.9E+00	mg/kg	4.0E-07	mg/kg-day	5.0E-01	1/(mg/kg-day)	2.0E-07	1.1E-06	mg/kg-day	3.0E-03	mg/kg-day	3.7E-04
				Cobalt	6.1E+01	mg/kg	8.5E-06	mg/kg-day	--	--	--	2.4E-05	mg/kg-day	3.0E-04	mg/kg-day	8.0E-02
				Copper	1.7E+03	mg/kg	2.4E-04	mg/kg-day	--	--	--	6.8E-04	mg/kg-day	4.0E-02	mg/kg-day	1.7E-02
				Iron	6.3E+04	mg/kg	8.8E-03	mg/kg-day	--	--	--	2.5E-02	mg/kg-day	7.0E-01	mg/kg-day	3.5E-02
				Lead	6.0E+02	mg/kg	8.3E-05	mg/kg-day	--	--	--	2.3E-04	mg/kg-day	--	--	--
				Manganese	7.8E+02	mg/kg	1.1E-04	mg/kg-day	--	--	--	3.0E-04	mg/kg-day	2.4E-02	mg/kg-day	1.3E-02
				Mercury (elemental)	1.2E+02	mg/kg	1.7E-05	mg/kg-day	--	--	--	4.8E-05	mg/kg-day	1.6E-04	mg/kg-day	3.0E-01
				Mercury (inorganic)	1.1E+03	mg/kg	1.5E-04	mg/kg-day	--	--	--	4.3E-04	mg/kg-day	3.0E-04	mg/kg-day	1.4E+00
				Nickel	1.5E+02	mg/kg	2.1E-05	mg/kg-day	--	--	--	5.8E-05	mg/kg-day	2.0E-02	mg/kg-day	2.9E-03
				Silver	2.3E+00	mg/kg	3.2E-07	mg/kg-day	--	--	--	9.0E-07	mg/kg-day	5.0E-03	mg/kg-day	1.8E-04
				Vanadium	5.1E+01	mg/kg	7.1E-06	mg/kg-day	--	--	--	2.0E-05	mg/kg-day	7.0E-05	mg/kg-day	2.8E-01
				Zinc	1.3E+04	mg/kg	1.9E-03	mg/kg-day	--	--	--	5.2E-03	mg/kg-day	3.0E-01	mg/kg-day	1.7E-02
				Total PCBs	4.0E+00	mg/kg	5.5E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.1E-06	1.6E-06	mg/kg-day	2.0E-05	mg/kg-day	7.8E-02
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	1.7E-12	mg/kg-day	1.3E+05	1/(mg/kg-day)	2.2E-07	4.7E-12	mg/kg-day	1.0E-09	mg/kg-day	4.7E-03
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	6.2E-11	mg/kg-day	1.3E+05	1/(mg/kg-day)	8.1E-06	1.7E-10	mg/kg-day	1.0E-09	mg/kg-day	1.7E-01
				Benzo(a)pyrene TEQ	4.2E+00	mg/kg	5.8E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.2E-06	1.6E-06	mg/kg-day	--	--	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	5.7E-07	mg/kg-day	1.4E-02	1/(mg/kg-day)	8.0E-09	1.6E-06	mg/kg-day	2.0E-02	mg/kg-day	8.0E-05
				Dibenzofuran	6.7E-01	mg/kg	9.4E-08	mg/kg-day	--	--	--	2.6E-07	mg/kg-day	1.0E-03	mg/kg-day	2.6E-04
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	2.0E-08	mg/kg-day	5.4E-03	1/(mg/kg-day)	1.1E-10	5.6E-08	mg/kg-day	7.0E-02	mg/kg-day	8.1E-07
				Hexachlorobenzene	5.7E+01	mg/kg	8.0E-06	mg/kg-day	1.6E+00	1/(mg/kg-day)	1.3E-05	2.2E-05	mg/kg-day	8.0E-04	mg/kg-day	2.8E-02
				Hexachlorobutadiene	2.0E+00	mg/kg	2.7E-07	mg/kg-day	7.8E-02	1/(mg/kg-day)	2.1E-08	7.7E-07	mg/kg-day	1.0E-03	mg/kg-day	7.7E-04
				Naphthalene	9.5E-01	mg/kg	1.3E-07	mg/kg-day	--	--	--	3.7E-07	mg/kg-day	2.0E-02	mg/kg-day	1.9E-05
				Benzene	5.2E-01	mg/kg	7.3E-08	mg/kg-day	5.5E-02	1/(mg/kg-day)	4.0E-09	2.0E-07	mg/kg-day	4.0E-03	mg/kg-day	5.1E-05
				Chloroform	3.3E-01	mg/kg	4.6E-08	mg/kg-day	3.1E-02	1/(mg/kg-day)	1.4E-09	1.3E-07	mg/kg-day	1.0E-02	mg/kg-day	1.3E-05
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	4.9E-09	mg/kg-day	5.4E-01	1/(mg/kg-day)	2.6E-09	1.4E-08	mg/kg-day	1.0E-02	mg/kg-day	1.4E-06
				Trichloroethylene (TCE)	2.8E+00	mg/kg	4.0E-07	mg/kg-day	5.9E-03	1/(mg/kg-day)	2.3E-09	1.1E-06	mg/kg-day	--	--	--
				Vinyl Chloride	1.0E-02	mg/kg	1.4E-09	mg/kg-day	7.2E-01	1/(mg/kg-day)	1.0E-09	4.0E-09	mg/kg-day	3.0E-03	mg/kg-day	1.3E-06
			Route Total								3.1E-05					2.5E+00
			Dermal Contact	Aluminum	1.2E+04	mg/kg	--	--	--	--	--	--	--	1.0E+00	mg/kg-day	--
				Antimony	1.3E+01	mg/kg	--	--	--	--	--	--	--	6.0E-05	mg/kg-day	--
				Arsenic	2.2E+01	mg/kg	6.2E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	9.3E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.8E-03
				Barium	2.0E+03	mg/kg	--	--	--	--	--	--	--	1.4E-02	mg/kg-day	--
				Beryllium	3.8E+00	mg/kg	--	--	--	--	--	--	--	1.4E-05	mg/kg-day	--
				Cadmium	3.8E+00	mg/kg	--	--	--	--	--	9.9E-09	mg/kg-day	2.5E-05	mg/kg-day	3.9E-04
				Chromium, Hexavalent	2.9E+00	mg/kg	--	--	2.0E+01	1/(mg/kg-day)	--	--	--	7.5E-05	mg/kg-day	--
				Cobalt	6.1E+01	mg/kg	--	--	--	--	--	--	--	3.0E-04	mg/kg-day	--
				Copper	1.7E+03	mg/kg	--	--	--	--	--	--	--	4.0E-02	mg/kg-day	--
				Iron	6.3E+04	mg/kg	--	--	--	--	--	--	--	7.0E-01	mg/kg-day	--
				Lead	6.0E+02	mg/kg	--	--	--	--	--	--	--	--	--	--
				Manganese	7.8E+02	mg/kg	--	--	--	--	--	--	--	9.6E-04	mg/kg-day	--
				Mercury (elemental)	1.2E+02	mg/kg	--	--	--	--	--	--	--	1.6E-04	mg/kg-day	--
				Mercury (inorganic)	1.1E+03	mg/kg	--	--	--	--	--	--	--	2.1E-05	mg/kg-day	--
				Nickel	1.5E+02	mg/kg	--	--	--	--	--	--	--	8.0E-04	mg/kg-day	--
				Silver	2.3E+00	mg/kg	--	--	--	--	--	--	--	2.0E-04	mg/kg-day	--
				Vanadium	5.1E+01	mg/kg	--	--	--	--	--	--	--	1.8E-06	mg/kg-day	--
				Zinc	1.3E+04	mg/kg	--	--	--	--	--	--	--	3.0E-01	mg/kg-day	--
				Total PCBs	4.0E+00	mg/kg	5.1E-07	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.0E-06	1.4E-06	mg/kg-day	2.0E-05	mg/kg-day	7.2E-02
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	3.4E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	4.4E-08	9.4E-13	mg/kg-day	1.0E-09	mg/kg-day	9.4E-04
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	1.2E-11	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.6E-06	3.4E-11	mg/kg-day	1.0E-09	mg/kg-day	3.4E-02

Table 7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE SITE-SPECIFIC WORKER - SURFACE SOIL
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Site-Specific Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil (0 to 2 ft bgs) (continued)	Surface Soil (0 to 2 ft bgs) (continued)	Surface Soil (0 to 2 ft bgs) (continued)	Dermal Contact (continued)	Benzo(a)pyrene TEQ	4.2E+00	mg/kg	5.0E-07	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.6E-06	--	--	--	--	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	3.8E-07	mg/kg-day	1.4E-02	1/(mg/kg-day)	5.3E-09	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.3E-05
				Dibenzofuran	6.7E-01	mg/kg	--	--	--	--	--	--	--	1.0E-03	mg/kg-day	--
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	--	--	5.4E-03	1/(mg/kg-day)	--	--	--	7.0E-02	mg/kg-day	--
				Hexachlorobenzene	5.7E+01	mg/kg	5.3E-06	mg/kg-day	1.6E+00	1/(mg/kg-day)	8.4E-06	1.5E-05	mg/kg-day	8.0E-04	mg/kg-day	1.8E-02
				Hexachlorobutadiene	2.0E+00	mg/kg	1.8E-07	mg/kg-day	7.8E-02	1/(mg/kg-day)	1.4E-08	5.1E-07	mg/kg-day	1.0E-03	mg/kg-day	5.1E-04
				Naphthalene	9.5E-01	mg/kg	--	--	--	--	--	3.2E-07	mg/kg-day	2.0E-02	mg/kg-day	1.6E-05
				Benzene	5.2E-01	mg/kg	--	--	5.5E-02	1/(mg/kg-day)	--	--	--	4.0E-03	mg/kg-day	--
				Chloroform	3.3E-01	mg/kg	--	--	3.1E-02	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	--	--	5.4E-01	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Trichloroethylene (TCE)	2.8E+00	mg/kg	--	--	5.9E-03	1/(mg/kg-day)	--	--	--	--	--	--
				Vinyl Chloride	1.0E-02	mg/kg	--	--	7.2E-01	1/(mg/kg-day)	--	--	--	3.0E-03	mg/kg-day	--
			Route Total								1.6E-05					1.3E-01
	Exposure Medium Total										4.7E-05					2.7E+00
	Outdoor Air	Paritculates/ Vapors in Outdoor Air	Inhalation	Aluminum	1.2E+04	mg/kg	6.0E-04	µg/m³	--	1/(µg/m³)	--	1.7E-06	mg/m³	5.0E-03	mg/m³	3.4E-04
				Antimony	1.3E+01	mg/kg	6.1E-07	µg/m³	--	1/(µg/m³)	--	1.7E-09	mg/m³	--	mg/m³	--
				Arsenic	2.2E+01	mg/kg	1.1E-06	µg/m³	4.3E-03	1/(µg/m³)	4.6E-09	3.0E-09	mg/m³	1.5E-05	mg/m³	2.0E-04
				Barium	2.0E+03	mg/kg	9.6E-05	µg/m³	--	1/(µg/m³)	--	2.7E-07	mg/m³	5.0E-04	mg/m³	5.4E-04
				Beryllium	3.8E+00	mg/kg	1.8E-07	µg/m³	2.4E-03	1/(µg/m³)	4.4E-10	5.1E-10	mg/m³	2.0E-05	mg/m³	2.6E-05
				Cadmium	3.8E+00	mg/kg	1.8E-07	µg/m³	1.8E-03	1/(µg/m³)	3.3E-10	5.2E-10	mg/m³	1.0E-05	mg/m³	5.2E-05
				Chromium, Hexavalent	2.9E+00	mg/kg	1.4E-07	µg/m³	8.4E-02	1/(µg/m³)	1.2E-08	3.9E-10	mg/m³	1.0E-04	mg/m³	3.9E-06
				Cobalt	6.1E+01	mg/kg	2.9E-06	µg/m³	9.0E-03	1/(µg/m³)	2.6E-08	8.2E-09	mg/m³	6.0E-06	mg/m³	1.4E-03
				Copper	1.7E+03	mg/kg	8.4E-05	µg/m³	--	1/(µg/m³)	--	2.4E-07	mg/m³	--	mg/m³	--
				Iron	6.3E+04	mg/kg	3.0E-03	µg/m³	--	1/(µg/m³)	--	8.5E-06	mg/m³	--	mg/m³	--
				Lead	6.0E+02	mg/kg	2.9E-05	µg/m³	--	1/(µg/m³)	--	8.1E-08	mg/m³	--	mg/m³	--
				Manganese	7.8E+02	mg/kg	3.8E-05	µg/m³	--	1/(µg/m³)	--	1.1E-07	mg/m³	5.0E-05	mg/m³	2.1E-03
				Mercury (elemental)	1.2E+02	mg/kg	5.9E-06	µg/m³	--	1/(µg/m³)	--	5.1E-04	mg/m³	3.0E-04	mg/m³	1.7E+00
				Mercury (inorganic)	1.1E+03	mg/kg	5.3E-05	µg/m³	--	1/(µg/m³)	--	1.5E-07	mg/m³	3.0E-05	mg/m³	5.0E-03
				Nickel	1.5E+02	mg/kg	7.2E-06	µg/m³	2.6E-04	1/(µg/m³)	1.9E-09	2.0E-08	mg/m³	9.0E-05	mg/m³	2.2E-04
				Silver	2.3E+00	mg/kg	1.1E-07	µg/m³	--	1/(µg/m³)	--	3.1E-10	mg/m³	--	mg/m³	--
				Vanadium	5.1E+01	mg/kg	2.4E-06	µg/m³	--	1/(µg/m³)	--	6.8E-09	mg/m³	1.0E-04	mg/m³	6.8E-05
				Zinc	1.3E+04	mg/kg	6.5E-04	µg/m³	--	1/(µg/m³)	--	1.8E-06	mg/m³	--	mg/m³	--
				Total PCBs	4.0E+00	mg/kg	1.9E-07	µg/m³	5.7E-04	1/(µg/m³)	1.1E-10	5.4E-10	mg/m³	--	mg/m³	--
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	5.8E-13	µg/m³	3.8E+01	1/(µg/m³)	2.2E-11	1.6E-15	mg/m³	4.0E-08	mg/m³	4.1E-08
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	2.1E-11	µg/m³	3.8E+01	1/(µg/m³)	8.1E-10	6.0E-14	mg/m³	4.0E-08	mg/m³	1.5E-06
				Benzo(a)pyrene TEQ	4.2E+00	mg/kg	2.0E-07	µg/m³	1.1E-03	1/(µg/m³)	2.2E-10	5.6E-10	mg/m³	--	mg/m³	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	2.0E-07	µg/m³	2.4E-06	1/(µg/m³)	4.7E-13	5.5E-10	mg/m³	--	mg/m³	--
				Dibenzofuran	6.7E-01	mg/kg	3.2E-08	µg/m³	--	1/(µg/m³)	--	9.0E-11	mg/m³	--	mg/m³	--
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	6.1E-04	µg/m³	1.1E-05	1/(µg/m³)	6.7E-09	1.7E-06	mg/m³	8.0E-01	mg/m³	2.1E-06
				Hexachlorobenzene	5.7E+01	mg/kg	2.8E-06	µg/m³	4.6E-04	1/(µg/m³)	1.3E-09	7.7E-09	mg/m³	--	mg/m³	--
				Hexachlorobutadiene	2.0E+00	mg/kg	9.5E-08	µg/m³	2.2E-05	1/(µg/m³)	2.1E-12	2.7E-10	mg/m³	--	mg/m³	--
				Naphthalene	9.5E-01	mg/kg	9.1E-04	µg/m³	3.4E-05	1/(µg/m³)	3.1E-08	2.6E-06	mg/m³	3.0E-03	mg/m³	8.5E-04
				Benzene	5.2E-01	mg/kg	6.5E-03	µg/m³	7.8E-06	1/(µg/m³)	5.1E-08	1.8E-05	mg/m³	3.0E-02	mg/m³	6.1E-04
				Chloroform	3.3E-01	mg/kg	5.6E-03	µg/m³	2.3E-05	1/(µg/m³)	1.3E-07	1.6E-05	mg/m³	9.8E-02	mg/m³	1.6E-04
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	6.6E-04	µg/m³	5.9E-06	1/(µg/m³)	3.9E-09	1.8E-06	mg/m³	2.7E-01	mg/m³	6.8E-06
				Trichloroethylene (TCE)	2.8E+00	mg/kg	5.7E-02	µg/m³	2.0E-06	1/(µg/m³)	1.1E-07	3.8E-10	mg/m³	--	mg/m³	--
				Vinyl Chloride	1.0E-02	mg/kg	4.7E-04	µg/m³	4.4E-06	1/(µg/m³)	2.1E-09	1.3E-06	mg/m³	1.0E-01	mg/m³	1.3E-05
			Route Total								3.8E-07					1.7E+00
	Exposure Medium Total										3.8E-07					1.7E+00
Surface Soil Total											4.7E-05					4.4E+00
										Total of Receptor Risks Across All Media	**4.7E-05**				**Total of Receptor Hazards Across All Media**	**4.4E+00**

Table 7.2.CTE
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE SITE-SPECIFIC WORKER - SURFACE SOIL
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Site-Specific Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Ingestion	Aluminum	1.2E+04	mg/kg	1.6E-04	mg/kg-day	--	--	--	1.2E-03	mg/kg-day	1.0E+00	mg/kg-day	1.2E-03
				Antimony	1.3E+01	mg/kg	1.6E-07	mg/kg-day	--	--	--	1.2E-06	mg/kg-day	4.0E-04	mg/kg-day	3.1E-03
				Arsenic	2.2E+01	mg/kg	2.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.2E-07	2.2E-06	mg/kg-day	3.0E-04	mg/kg-day	7.3E-03
				Barium	2.0E+03	mg/kg	2.5E-05	mg/kg-day	--	--	--	1.9E-04	mg/kg-day	2.0E-01	mg/kg-day	9.7E-04
				Beryllium	3.8E+00	mg/kg	4.8E-08	mg/kg-day	--	--	--	3.7E-07	mg/kg-day	2.0E-03	mg/kg-day	1.9E-04
				Cadmium	3.8E+00	mg/kg	4.8E-08	mg/kg-day	--	--	--	3.7E-07	mg/kg-day	1.0E-03	mg/kg-day	3.7E-04
				Chromium, Hexavalent	2.9E+00	mg/kg	3.6E-08	mg/kg-day	5.0E-01	1/(mg/kg-day)	1.8E-08	2.8E-07	mg/kg-day	3.0E-03	mg/kg-day	9.3E-05
				Cobalt	6.1E+01	mg/kg	7.7E-07	mg/kg-day	--	--	--	6.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
				Copper	1.7E+03	mg/kg	2.2E-05	mg/kg-day	--	--	--	1.7E-04	mg/kg-day	4.0E-02	mg/kg-day	4.3E-03
				Iron	6.3E+04	mg/kg	7.9E-04	mg/kg-day	--	--	--	6.2E-03	mg/kg-day	7.0E-01	mg/kg-day	8.8E-03
				Lead	6.0E+02	mg/kg	7.5E-06	mg/kg-day	--	--	--	5.8E-05	mg/kg-day	--	--	--
				Manganese	7.8E+02	mg/kg	9.8E-06	mg/kg-day	--	--	--	7.6E-05	mg/kg-day	2.4E-02	mg/kg-day	3.2E-03
				Mercury (elemental)	1.2E+02	mg/kg	1.5E-06	mg/kg-day	--	--	--	1.2E-05	mg/kg-day	1.6E-04	mg/kg-day	7.5E-02
				Mercury (inorganic)	1.1E+03	mg/kg	1.4E-05	mg/kg-day	--	--	--	1.1E-04	mg/kg-day	3.0E-04	mg/kg-day	3.6E-01
				Nickel	1.5E+02	mg/kg	1.9E-06	mg/kg-day	--	--	--	1.5E-05	mg/kg-day	2.0E-02	mg/kg-day	7.3E-04
				Silver	2.3E+00	mg/kg	2.9E-08	mg/kg-day	--	--	--	2.3E-07	mg/kg-day	5.0E-03	mg/kg-day	4.5E-05
				Vanadium	5.1E+01	mg/kg	6.4E-07	mg/kg-day	--	--	--	4.9E-06	mg/kg-day	7.0E-05	mg/kg-day	7.1E-02
				Zinc	1.3E+04	mg/kg	1.7E-04	mg/kg-day	--	--	--	1.3E-03	mg/kg-day	3.0E-01	mg/kg-day	4.4E-03
				Total PCBs	4.0E+00	mg/kg	5.0E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.0E-07	3.9E-07	mg/kg-day	2.0E-05	mg/kg-day	1.9E-02
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	1.5E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	2.0E-08	1.2E-12	mg/kg-day	1.0E-09	mg/kg-day	1.2E-03
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	5.6E-12	mg/kg-day	1.3E+05	1/(mg/kg-day)	7.2E-07	4.3E-11	mg/kg-day	1.0E-09	mg/kg-day	4.3E-02
				Benzo(a)pyrene TEQ	4.2E+00	mg/kg	5.2E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	3.8E-07	4.1E-07	mg/kg-day	--	--	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	5.1E-08	mg/kg-day	1.4E-02	1/(mg/kg-day)	7.2E-10	4.0E-07	mg/kg-day	2.0E-02	mg/kg-day	2.0E-05
				Dibenzofuran	6.7E-01	mg/kg	8.4E-09	mg/kg-day	--	--	--	6.5E-08	mg/kg-day	1.0E-03	mg/kg-day	6.5E-05
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	1.8E-09	mg/kg-day	5.4E-03	1/(mg/kg-day)	9.8E-12	1.4E-08	mg/kg-day	7.0E-02	mg/kg-day	2.0E-07
				Hexachlorobenzene	5.7E+01	mg/kg	7.2E-07	mg/kg-day	1.6E+00	1/(mg/kg-day)	1.2E-06	5.6E-06	mg/kg-day	8.0E-04	mg/kg-day	7.0E-03
				Hexachlorobutadiene	2.0E+00	mg/kg	2.5E-08	mg/kg-day	7.8E-02	1/(mg/kg-day)	1.9E-09	1.9E-07	mg/kg-day	1.0E-03	mg/kg-day	1.9E-04
				Naphthalene	9.5E-01	mg/kg	1.2E-08	mg/kg-day	--	--	--	9.3E-08	mg/kg-day	2.0E-02	mg/kg-day	4.7E-06
				Benzene	5.2E-01	mg/kg	6.5E-09	mg/kg-day	5.5E-02	1/(mg/kg-day)	3.6E-10	5.1E-08	mg/kg-day	4.0E-03	mg/kg-day	1.3E-05
				Chloroform	3.3E-01	mg/kg	4.1E-09	mg/kg-day	3.1E-02	1/(mg/kg-day)	1.3E-10	3.2E-08	mg/kg-day	1.0E-02	mg/kg-day	3.2E-06
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	4.4E-10	mg/kg-day	5.4E-01	1/(mg/kg-day)	2.4E-10	3.4E-09	mg/kg-day	1.0E-02	mg/kg-day	3.4E-07
				Trichloroethylene (TCE)	2.8E+00	mg/kg	3.6E-08	mg/kg-day	5.9E-03	1/(mg/kg-day)	2.1E-10	2.8E-07	mg/kg-day	--	--	--
				Vinyl Chloride	1.0E-02	mg/kg	1.3E-10	mg/kg-day	7.2E-01	1/(mg/kg-day)	9.1E-11	9.9E-10	mg/kg-day	3.0E-03	mg/kg-day	3.3E-07
			Route Total								2.8E-06					6.3E-01
			Dermal Contact	Aluminum	1.2E+04	mg/kg	--	--	--	--	--	--	--	1.0E+00	mg/kg-day	--
				Antimony	1.3E+01	mg/kg	--	--	--	--	--	--	--	6.0E-05	mg/kg-day	--
				Arsenic	2.2E+01	mg/kg	1.1E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.7E-07	8.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.9E-03
				Barium	2.0E+03	mg/kg	--	--	--	--	--	--	--	1.4E-02	mg/kg-day	--
				Beryllium	3.8E+00	mg/kg	--	--	--	--	--	--	--	1.4E-05	mg/kg-day	--
				Cadmium	3.8E+00	mg/kg	--	--	--	--	--	4.9E-09	mg/kg-day	2.5E-05	mg/kg-day	2.0E-04
				Chromium, Hexavalent	2.9E+00	mg/kg	--	--	2.0E+01	1/(mg/kg-day)	--	--	--	7.5E-05	mg/kg-day	--
				Cobalt	6.1E+01	mg/kg	--	--	--	--	--	--	--	3.0E-04	mg/kg-day	--
				Copper	1.7E+03	mg/kg	--	--	--	--	--	--	--	4.0E-02	mg/kg-day	--
				Iron	6.3E+04	mg/kg	--	--	--	--	--	--	--	7.0E-01	mg/kg-day	--
				Lead	6.0E+02	mg/kg	--	--	--	--	--	--	--	--	--	--
				Manganese	7.8E+02	mg/kg	--	--	--	--	--	--	--	9.6E-04	mg/kg-day	--
				Mercury (elemental)	1.2E+02	mg/kg	--	--	--	--	--	--	--	1.6E-04	mg/kg-day	--
				Mercury (inorganic)	1.1E+03	mg/kg	--	--	--	--	--	--	--	2.1E-05	mg/kg-day	--
				Nickel	1.5E+02	mg/kg	--	--	--	--	--	--	--	8.0E-04	mg/kg-day	--
				Silver	2.3E+00	mg/kg	--	--	--	--	--	--	--	2.0E-04	mg/kg-day	--
				Vanadium	5.1E+01	mg/kg	--	--	--	--	--	--	--	1.8E-06	mg/kg-day	--
				Zinc	1.3E+04	mg/kg	--	--	--	--	--	--	--	3.0E-01	mg/kg-day	--
				Total PCBs	4.0E+00	mg/kg	9.2E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.8E-07	7.2E-07	mg/kg-day	2.0E-05	mg/kg-day	3.6E-02
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	6.0E-14	mg/kg-day	1.3E+05	1/(mg/kg-day)	7.8E-09	4.7E-13	mg/kg-day	1.0E-09	mg/kg-day	4.7E-04
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	2.2E-12	mg/kg-day	1.3E+05	1/(mg/kg-day)	2.9E-07	1.7E-11	mg/kg-day	1.0E-09	mg/kg-day	1.7E-02

Table 7.2.CTE
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE SITE-SPECIFIC WORKER - SURFACE SOIL
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Site-Specific Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Surface Soil (0 to 2 ft bgs) (continued)	Surface Soil (0 to 2 ft bgs) (continued)	Surface Soil (0 to 2 ft bgs) (continued)	Dermal Contact (continued)	Benzo(a)pyrene TEQ	4.2E+00	mg/kg	9.0E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	6.5E-07	--	--	--	--	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	6.8E-08	mg/kg-day	1.4E-02	1/(mg/kg-day)	9.5E-10	5.3E-07	mg/kg-day	2.0E-02	mg/kg-day	2.6E-05
				Dibenzofuran	6.7E-01	mg/kg	--	--	--	--	--	--	--	1.0E-03	mg/kg-day	--
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	--	--	5.4E-03	1/(mg/kg-day)	--	--	--	7.0E-02	mg/kg-day	--
				Hexachlorobenzene	5.7E+01	mg/kg	9.5E-07	mg/kg-day	1.6E+00	1/(mg/kg-day)	1.5E-06	7.4E-06	mg/kg-day	8.0E-04	mg/kg-day	9.2E-03
				Hexachlorobutadiene	2.0E+00	mg/kg	3.3E-08	mg/kg-day	7.8E-02	1/(mg/kg-day)	2.5E-09	2.5E-07	mg/kg-day	1.0E-03	mg/kg-day	2.5E-04
				Naphthalene	9.5E-01	mg/kg	--	--	--	--	--	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.0E-06
				Benzene	5.2E-01	mg/kg	--	--	5.5E-02	1/(mg/kg-day)	--	--	--	4.0E-03	mg/kg-day	--
				Chloroform	3.3E-01	mg/kg	--	--	3.1E-02	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	--	--	5.4E-01	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Trichloroethylene (TCE)	2.8E+00	mg/kg	--	--	5.9E-03	1/(mg/kg-day)	--	--	--	--	--	--
				Vinyl Chloride	1.0E-02	mg/kg	--	--	7.2E-01	1/(mg/kg-day)	--	--	--	3.0E-03	mg/kg-day	--
			Route Total								2.8E-06					6.6E-02
	Exposure Medium Total										5.6E-06					7.0E-01
	Outdoor Air	Paritculates/ Vapors in Outdoor Air	Inhalation	Aluminum	1.2E+04	mg/kg	1.1E-04	µg/m³	--	1/(µg/m³)	--	8.4E-07	mg/m³	5.0E-03	mg/m³	1.7E-04
				Antimony	1.3E+01	mg/kg	1.1E-07	µg/m³	--	1/(µg/m³)	--	8.6E-10	mg/m³	--	mg/m³	--
				Arsenic	2.2E+01	mg/kg	1.9E-07	µg/m³	4.3E-03	1/(µg/m³)	8.3E-10	1.5E-09	mg/m³	1.5E-05	mg/m³	1.0E-04
				Barium	2.0E+03	mg/kg	1.7E-05	µg/m³	--	1/(µg/m³)	--	1.3E-07	mg/m³	5.0E-04	mg/m³	2.7E-04
				Beryllium	3.8E+00	mg/kg	3.3E-08	µg/m³	2.4E-03	1/(µg/m³)	7.9E-11	2.6E-10	mg/m³	2.0E-05	mg/m³	1.3E-05
				Cadmium	3.8E+00	mg/kg	3.3E-08	µg/m³	1.8E-03	1/(µg/m³)	6.0E-11	2.6E-10	mg/m³	1.0E-05	mg/m³	2.6E-05
				Chromium, Hexavalent	2.9E+00	mg/kg	2.5E-08	µg/m³	8.4E-02	1/(µg/m³)	2.1E-09	1.9E-10	mg/m³	1.0E-04	mg/m³	1.9E-06
				Cobalt	6.1E+01	mg/kg	5.3E-07	µg/m³	9.0E-03	1/(µg/m³)	4.8E-09	4.1E-09	mg/m³	6.0E-06	mg/m³	6.9E-04
				Copper	1.7E+03	mg/kg	1.5E-05	µg/m³	--	1/(µg/m³)	--	1.2E-07	mg/m³	--	mg/m³	--
				Iron	6.3E+04	mg/kg	5.5E-04	µg/m³	--	1/(µg/m³)	--	4.3E-06	mg/m³	--	mg/m³	--
				Lead	6.0E+02	mg/kg	5.2E-06	µg/m³	--	1/(µg/m³)	--	4.0E-08	mg/m³	--	mg/m³	--
				Manganese	7.8E+02	mg/kg	6.8E-06	µg/m³	--	1/(µg/m³)	--	5.3E-08	mg/m³	5.0E-05	mg/m³	1.1E-03
				Mercury (elemental)	1.2E+02	mg/kg	1.1E-06	µg/m³	--	1/(µg/m³)	--	2.5E-04	mg/m³	3.0E-04	mg/m³	8.4E-01
				Mercury (inorganic)	1.1E+03	mg/kg	9.6E-06	µg/m³	--	1/(µg/m³)	--	7.5E-08	mg/m³	3.0E-05	mg/m³	2.5E-03
				Nickel	1.5E+02	mg/kg	1.3E-06	µg/m³	2.6E-04	1/(µg/m³)	3.4E-10	1.0E-08	mg/m³	9.0E-05	mg/m³	1.1E-04
				Silver	2.3E+00	mg/kg	2.0E-08	µg/m³	--	1/(µg/m³)	--	1.6E-10	mg/m³	--	mg/m³	--
				Vanadium	5.1E+01	mg/kg	4.4E-07	µg/m³	--	1/(µg/m³)	--	3.4E-09	mg/m³	1.0E-04	mg/m³	3.4E-05
				Zinc	1.3E+04	mg/kg	1.2E-04	µg/m³	--	1/(µg/m³)	--	9.0E-07	mg/m³	--	mg/m³	--
				Total PCBs	4.0E+00	mg/kg	3.4E-08	µg/m³	5.7E-04	1/(µg/m³)	2.0E-11	2.7E-10	mg/m³	--	mg/m³	--
				Dioxin 2,3,7,8-TCDD TEQ	1.2E-05	mg/kg	1.1E-13	µg/m³	3.8E+01	1/(µg/m³)	4.0E-12	8.2E-16	mg/m³	4.0E-08	mg/m³	2.0E-08
				Furan 2,3,7,8-TCDD TEQ	4.4E-04	mg/kg	3.9E-12	µg/m³	3.8E+01	1/(µg/m³)	1.5E-10	3.0E-14	mg/m³	4.0E-08	mg/m³	7.5E-07
				Benzo(a)pyrene TEQ	4.2E+00	mg/kg	3.6E-08	µg/m³	1.1E-03	1/(µg/m³)	4.0E-11	2.8E-10	mg/m³	--	mg/m³	--
				Bis(2-ethylhexyl) phthalate	4.1E+00	mg/kg	3.5E-08	µg/m³	2.4E-06	1/(µg/m³)	8.5E-14	2.8E-10	mg/m³	--	mg/m³	--
				Dibenzofuran	6.7E-01	mg/kg	5.8E-09	µg/m³	--	1/(µg/m³)	--	4.5E-11	mg/m³	--	mg/m³	--
				Dichlorobenzene, 1,4-	1.4E-01	mg/kg	1.1E-04	µg/m³	1.1E-05	1/(µg/m³)	1.2E-09	8.6E-07	mg/m³	8.0E-01	mg/m³	1.1E-06
				Hexachlorobenzene	5.7E+01	mg/kg	5.0E-07	µg/m³	4.6E-04	1/(µg/m³)	2.3E-10	3.9E-09	mg/m³	--	mg/m³	--
				Hexachlorobutadiene	2.0E+00	mg/kg	1.7E-08	µg/m³	2.2E-05	1/(µg/m³)	3.8E-13	1.3E-10	mg/m³	--	mg/m³	--
				Naphthalene	9.5E-01	mg/kg	1.6E-04	µg/m³	3.4E-05	1/(µg/m³)	5.6E-09	1.3E-06	mg/m³	3.0E-03	mg/m³	4.3E-04
				Benzene	5.2E-01	mg/kg	1.2E-03	µg/m³	7.8E-06	1/(µg/m³)	9.2E-09	9.1E-06	mg/m³	3.0E-02	mg/m³	3.0E-04
				Chloroform	3.3E-01	mg/kg	1.0E-03	µg/m³	2.3E-05	1/(µg/m³)	2.3E-08	7.8E-06	mg/m³	9.8E-02	mg/m³	7.9E-05
				Tetrachloroethylene (PCE)	3.5E-02	mg/kg	1.2E-04	µg/m³	5.9E-06	1/(µg/m³)	7.0E-10	9.2E-07	mg/m³	2.7E-01	mg/m³	3.4E-06
				Trichloroethylene (TCE)	2.8E+00	mg/kg	1.0E-02	µg/m³	2.0E-06	1/(µg/m³)	2.0E-08	1.9E-10	mg/m³	--	mg/m³	--
				Vinyl Chloride	1.0E-02	mg/kg	8.5E-05	µg/m³	4.4E-06	1/(µg/m³)	3.7E-10	6.6E-07	mg/m³	1.0E-01	mg/m³	6.6E-06
			Route Total								6.9E-08					8.5E-01
	Exposure Medium Total										6.9E-08					8.5E-01
Surface Soil Total											5.7E-06					1.5E+00
										Total of Receptor Risks Across All Media	**5.7E-06**				**Total of Receptor Hazards Across All Media**	**1.5E+00**

Table 7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Mixed Soil (0 to 10 ft bgs)	Mixed Soil (0 to 10 ft bgs)	Mixed Soil (0 to 10 ft bgs)	Ingestion	Aluminum	1.2E+04	mg/kg	2.9E-04	mg/kg-day	--	--	--	2.0E-02	mg/kg-day	1.0E+00	mg/kg-day	2.0E-02
				Antimony	1.7E+01	mg/kg	4.2E-07	mg/kg-day	--	--	--	2.9E-05	mg/kg-day	4.0E-04	mg/kg-day	7.3E-02
				Arsenic	4.1E+01	mg/kg	9.8E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.5E-06	6.9E-05	mg/kg-day	3.0E-04	mg/kg-day	2.3E-01
				Barium	1.8E+03	mg/kg	4.3E-05	mg/kg-day	--	--	--	3.0E-03	mg/kg-day	2.0E-01	mg/kg-day	1.5E-02
				Beryllium	3.3E+00	mg/kg	7.9E-08	mg/kg-day	--	--	--	5.5E-06	mg/kg-day	2.0E-03	mg/kg-day	2.8E-03
				Cadmium	4.7E+00	mg/kg	1.1E-07	mg/kg-day	--	--	--	7.8E-06	mg/kg-day	1.0E-03	mg/kg-day	7.8E-03
				Chromium, Hexavalent	2.4E+00	mg/kg	5.8E-08	mg/kg-day	5.0E-01	1/(mg/kg-day)	2.9E-08	4.1E-06	mg/kg-day	3.0E-03	mg/kg-day	1.4E-03
				Cobalt	5.6E+01	mg/kg	1.3E-06	mg/kg-day	--	--	--	9.3E-05	mg/kg-day	3.0E-04	mg/kg-day	3.1E-01
				Copper	1.6E+03	mg/kg	3.8E-05	mg/kg-day	--	--	--	2.7E-03	mg/kg-day	4.0E-02	mg/kg-day	6.7E-02
				Iron	6.0E+04	mg/kg	1.4E-03	mg/kg-day	--	--	--	1.0E-01	mg/kg-day	7.0E-01	mg/kg-day	1.4E-01
				Lead	6.6E+02	mg/kg	1.6E-05	mg/kg-day	--	--	--	1.1E-03	mg/kg-day	--	--	--
				Manganese	7.2E+02	mg/kg	1.7E-05	mg/kg-day	--	--	--	1.2E-03	mg/kg-day	2.4E-02	mg/kg-day	5.0E-02
				Mercury (elemental)	1.1E+02	mg/kg	2.7E-06	mg/kg-day	--	--	--	1.9E-04	mg/kg-day	1.6E-04	mg/kg-day	1.2E+00
				Mercury (inorganic)	1.0E+03	mg/kg	2.5E-05	mg/kg-day	--	--	--	1.7E-03	mg/kg-day	3.0E-04	mg/kg-day	5.7E+00
				Nickel	1.0E+02	mg/kg	2.4E-06	mg/kg-day	--	--	--	1.7E-04	mg/kg-day	2.0E-02	mg/kg-day	8.5E-03
				Silver	2.1E+00	mg/kg	5.0E-08	mg/kg-day	--	--	--	3.5E-06	mg/kg-day	5.0E-03	mg/kg-day	7.0E-04
				Vanadium	4.5E+01	mg/kg	1.1E-06	mg/kg-day	--	--	--	7.5E-05	mg/kg-day	7.0E-05	mg/kg-day	1.1E+00
				Zinc	1.1E+04	mg/kg	2.7E-04	mg/kg-day	--	--	--	1.9E-02	mg/kg-day	3.0E-01	mg/kg-day	6.2E-02
				Total PCBs	3.5E+00	mg/kg	8.3E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	1.7E-07	5.8E-06	mg/kg-day	2.0E-05	mg/kg-day	2.9E-01
				Dioxin 2,3,7,8-TCDD TEQ	1.1E-05	mg/kg	2.7E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	3.6E-08	1.9E-11	mg/kg-day	1.0E-09	mg/kg-day	1.9E-02
				Furan 2,3,7,8-TCDD TEQ	7.2E-04	mg/kg	1.7E-11	mg/kg-day	1.3E+05	1/(mg/kg-day)	2.3E-06	1.2E-09	mg/kg-day	1.0E-09	mg/kg-day	1.2E+00
				Benzo(a)pyrene TEQ	2.3E+00	mg/kg	5.6E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	4.1E-07	3.9E-06	mg/kg-day	--	--	--
				Methylnaphthalene, 2-	2.5E+00	mg/kg	5.9E-08	mg/kg-day	--	--	--	4.1E-06	mg/kg-day	4.0E-03	mg/kg-day	1.0E-03
				Chloroaniline, p-	1.3E-01	mg/kg	3.1E-09	mg/kg-day	2.0E-01	1/(mg/kg-day)	6.2E-10	2.2E-07	mg/kg-day	4.0E-03	mg/kg-day	5.4E-05
				Naphthalene	4.7E+00	mg/kg	1.1E-07	mg/kg-day	--	--	--	7.8E-06	mg/kg-day	2.0E-02	mg/kg-day	3.9E-04
				Phenanthrene	7.3E+00	mg/kg	1.8E-07	mg/kg-day	--	--	--	1.2E-05	mg/kg-day	3.0E-02	mg/kg-day	4.1E-04
				Bis(2-ethylhexyl) phthalate	3.8E+00	mg/kg	9.1E-08	mg/kg-day	1.4E-02	1/(mg/kg-day)	1.3E-09	6.3E-06	mg/kg-day	2.0E-02	mg/kg-day	3.2E-04
				Dibenzofuran	2.3E+00	mg/kg	5.4E-08	mg/kg-day	--	--	--	3.8E-06	mg/kg-day	1.0E-03	mg/kg-day	3.8E-03
				Dichlorobenzene, 1,2-	1.0E+01	mg/kg	2.4E-07	mg/kg-day	--	--	--	1.7E-05	mg/kg-day	9.0E-02	mg/kg-day	1.9E-04
				Dichlorobenzene, 1,4-	2.1E+00	mg/kg	5.1E-08	mg/kg-day	5.4E-03	1/(mg/kg-day)	2.8E-10	3.6E-06	mg/kg-day	7.0E-02	mg/kg-day	5.1E-05
				Hexachlorobenzene	2.9E+01	mg/kg	7.1E-07	mg/kg-day	1.6E+00	1/(mg/kg-day)	1.1E-06	5.0E-05	mg/kg-day	8.0E-04	mg/kg-day	6.2E-02
				Hexachlorobutadiene	4.9E+00	mg/kg	1.2E-07	mg/kg-day	7.8E-02	1/(mg/kg-day)	9.2E-09	8.3E-06	mg/kg-day	1.0E-03	mg/kg-day	8.3E-03
				Trichlorobenzene, 1,2,4-	5.8E+01	mg/kg	1.4E-06	mg/kg-day	2.9E-02	1/(mg/kg-day)	4.0E-08	9.8E-05	mg/kg-day	1.0E-02	mg/kg-day	9.8E-03
				Benzene	2.7E+00	mg/kg	6.4E-08	mg/kg-day	5.5E-02	1/(mg/kg-day)	3.5E-09	4.5E-06	mg/kg-day	4.0E-03	mg/kg-day	1.1E-03
				Chlorobenzene	1.4E+00	mg/kg	3.3E-08	mg/kg-day	--	--	--	2.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Chloroform	9.0E-01	mg/kg	2.1E-08	mg/kg-day	3.1E-02	1/(mg/kg-day)	6.7E-10	1.5E-06	mg/kg-day	1.0E-02	mg/kg-day	1.5E-04
				Ethylbenzene	2.7E-01	mg/kg	6.6E-09	mg/kg-day	1.1E-02	1/(mg/kg-day)	7.2E-11	4.6E-07	mg/kg-day	1.0E-01	mg/kg-day	4.6E-06
				Methylene Chloride	1.2E+01	mg/kg	2.8E-07	mg/kg-day	7.5E-03	1/(mg/kg-day)	2.1E-09	2.0E-05	mg/kg-day	6.0E-02	mg/kg-day	3.3E-04
				Tetrachloroethylene (PCE)	1.7E-01	mg/kg	4.2E-09	mg/kg-day	5.4E-01	1/(mg/kg-day)	2.3E-09	2.9E-07	mg/kg-day	1.0E-02	mg/kg-day	2.9E-05
				Trichloroethylene (TCE)	3.8E+00	mg/kg	9.1E-08	mg/kg-day	5.9E-03	1/(mg/kg-day)	5.3E-10	6.3E-06	mg/kg-day	--	--	--
				Vinyl Chloride	8.9E-03	mg/kg	2.1E-10	mg/kg-day	7.2E-01	1/(mg/kg-day)	1.5E-10	1.5E-08	mg/kg-day	3.0E-03	mg/kg-day	5.0E-06
			Route Total								5.6E-06					1.1E+01
			Dermal Contact	Aluminum	1.2E+04	mg/kg	--	--	--	--	--	--	--	1.0E+00	mg/kg-day	--
				Antimony	1.7E+01	mg/kg	--	--	--	--	--	--	--	6.0E-05	mg/kg-day	--
				Arsenic	4.1E+01	mg/kg	8.9E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.3E-07	6.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Barium	1.8E+03	mg/kg	--	--	--	--	--	--	--	1.4E-02	mg/kg-day	--
				Beryllium	3.3E+00	mg/kg	--	--	--	--	--	--	--	1.4E-05	mg/kg-day	--
				Cadmium	4.7E+00	mg/kg	--	--	--	--	--	2.3E-08	mg/kg-day	2.5E-05	mg/kg-day	9.4E-04
				Chromium, Hexavalent	2.4E+00	mg/kg	--	--	2.0E+01	1/(mg/kg-day)	--	--	--	7.5E-05	mg/kg-day	--

Table 7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Mixed Soil (0 to 10 ft bgs) (continued)	Mixed Soil (0 to 10 ft bgs) (continued)	Mixed Soil (0 to 10 ft bgs) (continued)	Dermal Contact (continued)	Cobalt	5.6E+01	mg/kg	--	--	--	--	--	--	--	3.0E-04	mg/kg-day	--
				Copper	1.6E+03	mg/kg	--	--	--	--	--	--	--	4.0E-02	mg/kg-day	--
				Iron	6.0E+04	mg/kg	--	--	--	--	--	--	--	7.0E-01	mg/kg-day	--
				Lead	6.6E+02	mg/kg	--	--	--	--	--	--	--	--	--	--
				Manganese	7.2E+02	mg/kg	--	--	--	--	--	--	--	9.6E-04	mg/kg-day	--
				Mercury (elemental)	1.1E+02	mg/kg	--	--	--	--	--	--	--	1.6E-04	mg/kg-day	--
				Mercury (inorganic)	1.0E+03	mg/kg	--	--	--	--	--	--	--	2.1E-05	mg/kg-day	--
				Nickel	1.0E+02	mg/kg	--	--	--	--	--	--	--	8.0E-04	mg/kg-day	--
				Silver	2.1E+00	mg/kg	--	--	--	--	--	--	--	2.0E-04	mg/kg-day	--
				Vanadium	4.5E+01	mg/kg	--	--	--	--	--	--	--	1.8E-06	mg/kg-day	--
				Zinc	1.1E+04	mg/kg	--	--	--	--	--	--	--	3.0E-01	mg/kg-day	--
				Total PCBs	3.5E+00	mg/kg	3.5E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	7.0E-08	2.4E-06	mg/kg-day	2.0E-05	mg/kg-day	1.2E-01
				Dioxin 2,3,7,8-TCDD TEQ	1.1E-05	mg/kg	2.5E-14	mg/kg-day	1.3E+05	1/(mg/kg-day)	3.2E-09	1.7E-12	mg/kg-day	1.0E-09	mg/kg-day	1.7E-03
				Furan 2,3,7,8-TCDD TEQ	7.2E-04	mg/kg	1.6E-12	mg/kg-day	1.3E+05	1/(mg/kg-day)	2.0E-07	1.1E-10	mg/kg-day	1.0E-09	mg/kg-day	1.1E-01
				Benzo(a)pyrene TEQ	2.3E+00	mg/kg	2.2E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.6E-07	--	--	--	--	--
				Methylnaphthalene, 2-	2.5E+00	mg/kg	--	--	--	--	--	--	--	4.0E-03	mg/kg-day	--
				Chloroaniline, p-	1.3E-01	mg/kg	9.3E-10	mg/kg-day	2.0E-01	1/(mg/kg-day)	1.9E-10	6.5E-08	mg/kg-day	4.0E-03	mg/kg-day	1.6E-05
				Naphthalene	4.7E+00	mg/kg	--	--	--	--	--	3.0E-06	mg/kg-day	2.0E-02	mg/kg-day	1.5E-04
				Phenanthrene	7.3E+00	mg/kg	6.9E-08	mg/kg-day	--	--	--	4.8E-06	mg/kg-day	3.0E-02	mg/kg-day	1.6E-04
				Bis(2-ethylhexyl) phthalate	3.8E+00	mg/kg	2.7E-08	mg/kg-day	1.4E-02	1/(mg/kg-day)	3.8E-10	1.9E-06	mg/kg-day	2.0E-02	mg/kg-day	9.5E-05
				Dibenzofuran	2.3E+00	mg/kg	--	--	--	--	--	--	--	1.0E-03	mg/kg-day	--
				Dichlorobenzene, 1,2-	1.0E+01	mg/kg	--	--	--	--	--	--	--	9.0E-02	mg/kg-day	--
				Dichlorobenzene, 1,4-	2.1E+00	mg/kg	--	--	5.4E-03	1/(mg/kg-day)	--	--	--	7.0E-02	mg/kg-day	--
				Hexachlorobenzene	2.9E+01	mg/kg	2.1E-07	mg/kg-day	1.6E+00	1/(mg/kg-day)	3.4E-07	1.5E-05	mg/kg-day	8.0E-04	mg/kg-day	1.9E-02
				Hexachlorobutadiene	4.9E+00	mg/kg	3.6E-08	mg/kg-day	7.8E-02	1/(mg/kg-day)	2.8E-09	2.5E-06	mg/kg-day	1.0E-03	mg/kg-day	2.5E-03
				Trichlorobenzene, 1,2,4-	5.8E+01	mg/kg	--	--	2.9E-02	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Benzene	2.7E+00	mg/kg	--	--	5.5E-02	1/(mg/kg-day)	--	--	--	4.0E-03	mg/kg-day	--
				Chlorobenzene	1.4E+00	mg/kg	--	--	--	--	--	--	--	2.0E-02	mg/kg-day	--
				Chloroform	9.0E-01	mg/kg	--	--	3.1E-02	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Ethylbenzene	2.7E-01	mg/kg	--	--	1.1E-02	1/(mg/kg-day)	--	--	--	1.0E-01	mg/kg-day	--
				Methylene Chloride	1.2E+01	mg/kg	--	--	7.5E-03	1/(mg/kg-day)	--	--	--	6.0E-02	mg/kg-day	--
				Tetrachloroethylene (PCE)	1.7E-01	mg/kg	--	--	5.4E-01	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Trichloroethylene (TCE)	3.8E+00	mg/kg	--	--	5.9E-03	1/(mg/kg-day)	--	--	--	--	--	--
				Vinyl Chloride	8.9E-03	mg/kg	--	--	7.2E-01	1/(mg/kg-day)	--	--	--	3.0E-03	mg/kg-day	--
			Route Total								9.1E-07					2.8E-01
Exposure Medium Total											6.5E-06					1.1E+01
	Outdoor Air	Paritculates/ Vapors in Outdoor Air	Inhalation	Aluminum	1.2E+04	mg/kg	3.0E-05	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	2.1E-06	mg/m^3	5.0E-03	mg/m^3	4.2E-04
				Antimony	1.7E+01	mg/kg	4.4E-08	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	3.1E-09	mg/m^3	--	mg/m^3	--
				Arsenic	4.1E+01	mg/kg	1.0E-07	$\mu g/m^3$	4.3E-03	$1/(\mu g/m^3)$	4.4E-10	7.2E-09	mg/m^3	1.5E-05	mg/m^3	4.8E-04
				Barium	1.8E+03	mg/kg	4.5E-06	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	3.2E-07	mg/m^3	5.0E-04	mg/m^3	6.3E-04
				Beryllium	3.3E+00	mg/kg	8.3E-09	$\mu g/m^3$	2.4E-03	$1/(\mu g/m^3)$	2.0E-11	5.8E-10	mg/m^3	2.0E-05	mg/m^3	2.9E-05
				Cadmium	4.7E+00	mg/kg	1.2E-08	$\mu g/m^3$	1.8E-03	$1/(\mu g/m^3)$	2.1E-11	8.2E-10	mg/m^3	1.0E-05	mg/m^3	8.2E-05
				Chromium, Hexavalent	2.4E+00	mg/kg	6.1E-09	$\mu g/m^3$	8.4E-02	$1/(\mu g/m^3)$	5.1E-10	4.2E-10	mg/m^3	1.0E-04	mg/m^3	4.2E-06
				Cobalt	5.6E+01	mg/kg	1.4E-07	$\mu g/m^3$	9.0E-03	$1/(\mu g/m^3)$	1.3E-09	9.8E-09	mg/m^3	6.0E-06	mg/m^3	1.6E-03
				Copper	1.6E+03	mg/kg	4.0E-06	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	2.8E-07	mg/m^3	--	mg/m^3	--
				Iron	6.0E+04	mg/kg	1.5E-04	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	1.0E-05	mg/m^3	--	mg/m^3	--
				Lead	6.6E+02	mg/kg	1.6E-06	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	1.2E-07	mg/m^3	--	mg/m^3	--
				Manganese	7.2E+02	mg/kg	1.8E-06	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	1.3E-07	mg/m^3	5.0E-05	mg/m^3	2.5E-03
				Mercury (elemental)	1.1E+02	mg/kg	2.9E-07	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	6.1E-04	mg/m^3	3.0E-04	mg/m^3	2.0E+00

Table 7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Mixed Soil (0 to 10 ft bgs) (continued)	Outdoor Air (continued)	Paritculates/ Vapors in Outdoor Air (continued)	Inhalation (continued)	Mercury (inorganic)	1.0E+03	mg/kg	2.6E-06	µg/m^3	--	1/(µg/m^3)	--	1.8E-07	mg/m^3	3.0E-05	mg/m^3	6.0E-03
				Nickel	1.0E+02	mg/kg	2.6E-07	µg/m^3	2.6E-04	1/(µg/m^3)	6.6E-11	1.8E-08	mg/m^3	9.0E-05	mg/m^3	2.0E-04
				Silver	2.1E+00	mg/kg	5.3E-09	µg/m^3	--	1/(µg/m^3)	--	3.7E-10	mg/m^3	--	mg/m^3	--
				Vanadium	4.5E+01	mg/kg	1.1E-07	µg/m^3	--	1/(µg/m^3)	--	7.9E-09	mg/m^3	1.0E-04	mg/m^3	7.9E-05
				Zinc	1.1E+04	mg/kg	2.8E-05	µg/m^3	--	1/(µg/m^3)	--	2.0E-06	mg/m^3	--	mg/m^3	--
				Total PCBs	3.5E+00	mg/kg	8.7E-09	µg/m^3	5.7E-04	1/(µg/m^3)	4.9E-12	6.1E-10	mg/m^3	--	mg/m^3	--
				Dioxin 2,3,7,8-TCDD TEQ	1.1E-05	mg/kg	2.9E-14	µg/m^3	3.8E+01	1/(µg/m^3)	1.1E-12	2.0E-15	mg/m^3	4.0E-08	mg/m^3	5.0E-08
				Furan 2,3,7,8-TCDD TEQ	7.2E-04	mg/kg	1.8E-12	µg/m^3	3.8E+01	1/(µg/m^3)	6.9E-11	1.3E-13	mg/m^3	4.0E-08	mg/m^3	3.2E-06
				Benzo(a)pyrene TEQ	2.3E+00	mg/kg	5.9E-09	µg/m^3	1.1E-03	1/(µg/m^3)	6.5E-12	4.1E-10	mg/m^3	--	mg/m^3	--
				Methylnaphthalene, 2-	2.5E+00	mg/kg	6.2E-09	µg/m^3	--	1/(µg/m^3)	--	4.3E-10	mg/m^3	--	mg/m^3	--
				Chloroaniline, p-	1.3E-01	mg/kg	3.2E-10	µg/m^3	--	1/(µg/m^3)	--	2.3E-11	mg/m^3	--	mg/m^3	--
				Naphthalene	4.7E+00	mg/kg	2.3E-04	µg/m^3	3.4E-05	1/(µg/m^3)	7.9E-09	1.6E-05	mg/m^3	3.0E-03	mg/m^3	5.4E-03
				Phenanthrene	7.3E+00	mg/kg	1.8E-08	µg/m^3	--	1/(µg/m^3)	--	1.3E-09	mg/m^3	--	mg/m^3	--
				Bis(2-ethylhexyl) phthalate	3.8E+00	mg/kg	9.5E-09	µg/m^3	2.4E-06	1/(µg/m^3)	2.3E-14	6.6E-10	mg/m^3	--	mg/m^3	--
				Dibenzofuran	2.3E+00	mg/kg	5.7E-09	µg/m^3	--	1/(µg/m^3)	--	4.0E-10	mg/m^3	--	mg/m^3	--
				Dichlorobenzene, 1,2-	1.0E+01	mg/kg	2.5E-08	µg/m^3	--	1/(µg/m^3)	--	1.4E-04	mg/m^3	2.0E-01	mg/m^3	6.9E-04
				Dichlorobenzene, 1,4-	2.1E+00	mg/kg	4.7E-04	µg/m^3	1.1E-05	1/(µg/m^3)	5.2E-09	3.3E-05	mg/m^3	8.0E-01	mg/m^3	4.1E-05
				Hexachlorobenzene	2.9E+01	mg/kg	7.4E-08	µg/m^3	4.6E-04	1/(µg/m^3)	3.4E-11	5.2E-09	mg/m^3	--	mg/m^3	--
				Hexachlorobutadiene	4.9E+00	mg/kg	1.2E-08	µg/m^3	2.2E-05	1/(µg/m^3)	2.7E-13	8.7E-10	mg/m^3	--	mg/m^3	--
				Trichlorobenzene, 1,2,4-	5.8E+01	mg/kg	1.5E-07	µg/m^3	--	1/(µg/m^3)	--	3.1E-04	mg/m^3	2.0E-03	mg/m^3	1.6E-01
				Benzene	2.7E+00	mg/kg	1.7E-03	µg/m^3	7.8E-06	1/(µg/m^3)	1.4E-08	1.2E-04	mg/m^3	3.0E-02	mg/m^3	4.1E-03
				Chlorobenzene	1.4E+00	mg/kg	3.4E-09	µg/m^3	--	1/(µg/m^3)	--	3.4E-05	mg/m^3	5.0E-02	mg/m^3	6.8E-04
				Chloroform	9.0E-01	mg/kg	7.9E-04	µg/m^3	2.3E-05	1/(µg/m^3)	1.8E-08	5.5E-05	mg/m^3	9.8E-02	mg/m^3	5.6E-04
				Ethylbenzene	2.7E-01	mg/kg	1.1E-04	µg/m^3	2.5E-06	1/(µg/m^3)	2.8E-10	7.8E-06	mg/m^3	1.0E+00	mg/m^3	7.8E-06
				Methylene Chloride	1.2E+01	mg/kg	1.2E-02	µg/m^3	4.7E-07	1/(µg/m^3)	5.9E-09	8.7E-04	mg/m^3	1.0E+00	mg/m^3	8.7E-04
				Tetrachloroethylene (PCE)	1.7E-01	mg/kg	1.7E-04	µg/m^3	5.9E-06	1/(µg/m^3)	1.0E-09	1.2E-05	mg/m^3	2.7E-01	mg/m^3	4.4E-05
				Trichloroethylene (TCE)	3.8E+00	mg/kg	3.9E-03	µg/m^3	2.0E-06	1/(µg/m^3)	7.9E-09	6.6E-10	mg/m^3	--	mg/m^3	--
				Vinyl Chloride	8.9E-03	mg/kg	2.2E-05	µg/m^3	4.4E-06	1/(µg/m^3)	9.5E-11	1.5E-06	mg/m^3	1.0E-01	mg/m^3	1.5E-05
			Route Total								6.2E-08					2.2E+00
	Exposure Medium Total										6.2E-08					2.2E+00
Mixed Soil Total											6.5E-06					1.3E+01
Groundwater	Shallow (Overburden) Groundwater	Shallow (Overburden) Groundwater at the Water Table	Dermal Contact	Antimony	6.0E+00	µg/L	--	--	--	--	--	8.1E-07	mg/kg-day	6.0E-05	mg/kg-day	1.3E-02
				Arsenic	2.8E+02	µg/L	5.3E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	7.9E-07	3.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.2E-01
				Barium	1.4E+04	µg/L	--	--	--	--	--	1.9E-03	mg/kg-day	1.4E-02	mg/kg-day	1.4E-01
				Cadmium	2.3E+01	µg/L	--	--	--	--	--	3.1E-06	mg/kg-day	2.5E-05	mg/kg-day	1.2E-01
				Cobalt	1.9E+02	µg/L	--	--	--	--	--	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.4E-02
				Iron	3.5E+05	µg/L	--	--	--	--	--	4.6E-02	mg/kg-day	7.0E-01	mg/kg-day	6.6E-02
				Manganese	2.2E+05	µg/L	--	--	--	--	--	2.9E-02	mg/kg-day	9.6E-04	mg/kg-day	3.1E+01
				Mercury	2.3E+02	µg/L	--	--	--	--	--	3.1E-05	mg/kg-day	2.1E-05	mg/kg-day	1.5E+00
				Methyl Mercury	1.7E+02	µg/L	--	--	--	--	--	2.3E-05	mg/kg-day	1.0E-04	mg/kg-day	2.3E-01
				Vanadium	1.4E+02	µg/L	--	--	--	--	--	1.8E-05	mg/kg-day	1.8E-06	mg/kg-day	1.0E+01
				Zinc	1.7E+03	µg/L	--	--	--	--	--	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.5E-04
				Cyanide	7.7E+01	µg/L	--	--	--	--	--	1.0E-05	mg/kg-day	2.0E-02	mg/kg-day	5.2E-04
				Dioxin 2,3,7,8-TCDD TEQ	1.9E-05	µg/L	2.9E-11	mg/kg-day	1.3E+05	1/(mg/kg-day)	3.8E-06	2.1E-09	mg/kg-day	1.0E-09	mg/kg-day	2.1E+00
				Furan 2,3,7,8-TCDD TEQ	1.6E-04	µg/L	2.0E-10	mg/kg-day	1.3E+05	1/(mg/kg-day)	2.7E-05	1.4E-08	mg/kg-day	1.0E-09	mg/kg-day	1.4E+01
				Benz(a)anthracene	7.8E-01	µg/L	8.2E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	6.0E-07	--	--	--	--	--
				Naphthalene	5.6E+02	µg/L	--	--	--	--	--	3.5E-03	mg/kg-day	2.0E-02	mg/kg-day	1.8E-01
				Carbazole	1.4E+02	µg/L	1.5E-05	mg/kg-day	2.0E-02	1/(mg/kg-day)	2.9E-07	--	--	--	--	--
				Chloroaniline, p-	4.5E+03	µg/L	4.2E-05	mg/kg-day	2.0E-01	1/(mg/kg-day)	8.5E-06	3.0E-03	mg/kg-day	4.0E-03	mg/kg-day	7.4E-01

Table 7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater (continued)	Shallow (Overburden) Groundwater (continued)	Shallow (Overburden) Groundwater at the Water Table (continued)	Dermal Contact (continued)	Dibenzofuran	1.6E+01	µg/L	--	--	--	--	--	2.1E-04	mg/kg-day	1.0E-03	mg/kg-day	2.1E-01
				Dichlorobenzene, 1,2-	4.2E+03	µg/L	--	--	--	--	--	2.5E-02	mg/kg-day	9.0E-02	mg/kg-day	2.8E-01
				Dichlorobenzene, 1,3-	2.0E+02	µg/L	--	--	--	--	--	1.4E-03	mg/kg-day	9.0E-02	mg/kg-day	1.5E-02
				Dichlorobenzene, 1,4-	5.8E+02	µg/L	5.1E-05	mg/kg-day	5.4E-03	1/(mg/kg-day)	2.7E-07	3.5E-03	mg/kg-day	7.0E-02	mg/kg-day	5.1E-02
				Hexachlorobenzene	1.0E+00	µg/L	4.9E-07	mg/kg-day	1.6E+00	1/(mg/kg-day)	7.8E-07	3.4E-05	mg/kg-day	8.0E-04	mg/kg-day	4.3E-02
				Nitrobenzene	5.5E+01	µg/L	--	--	--	--	--	4.0E-05	mg/kg-day	2.0E-03	mg/kg-day	2.0E-02
				Dichlorophenol, 2,4-	1.2E+01	µg/L	--	--	--	--	--	3.2E-05	mg/kg-day	3.0E-03	mg/kg-day	1.1E-02
				Chlorophenol, 2-	2.6E+01	µg/L	--	--	--	--	--	2.8E-05	mg/kg-day	5.0E-03	mg/kg-day	5.6E-03
				Pentachlorophenol	1.9E+00	µg/L	4.6E-07	mg/kg-day	4.0E-01	1/(mg/kg-day)	1.8E-07	3.2E-05	mg/kg-day	5.0E-03	mg/kg-day	6.4E-03
				Trichlorobenzene, 1,2,4-	2.9E+02	µg/L	3.9E-05	mg/kg-day	2.9E-02	1/(mg/kg-day)	1.1E-06	2.7E-03	mg/kg-day	1.0E-02	mg/kg-day	2.7E-01
				Benzene	8.5E+02	µg/L	2.4E-05	mg/kg-day	5.5E-02	1/(mg/kg-day)	1.3E-06	1.7E-03	mg/kg-day	4.0E-03	mg/kg-day	4.2E-01
				Chlorobenzene	1.6E+04	µg/L	--	--	--	--	--	6.1E-02	mg/kg-day	2.0E-02	mg/kg-day	3.1E+00
				Chloroform	3.5E+00	µg/L	4.6E-08	mg/kg-day	3.1E-02	1/(mg/kg-day)	1.4E-09	3.2E-06	mg/kg-day	1.0E-02	mg/kg-day	3.2E-04
				Dichloroethane, 1,1-	2.6E+00	µg/L	3.4E-08	mg/kg-day	5.7E-03	1/(mg/kg-day)	1.9E-10	2.4E-06	mg/kg-day	2.0E-01	mg/kg-day	1.2E-05
				Dichloroethane, 1,2-	1.8E+00	µg/L	1.5E-08	mg/kg-day	9.1E-02	1/(mg/kg-day)	1.3E-09	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.1E-05
				Ethylbenzene	3.0E+01	µg/L	2.9E-06	mg/kg-day	1.1E-02	1/(mg/kg-day)	3.2E-08	2.0E-04	mg/kg-day	1.0E-01	mg/kg-day	2.0E-03
				Methylene Chloride	2.0E+03	µg/L	1.3E-05	mg/kg-day	7.5E-03	1/(mg/kg-day)	1.0E-07	9.3E-04	mg/kg-day	6.0E-02	mg/kg-day	1.6E-02
				Tetrachloroethylene (PCE)	6.9E+00	µg/L	4.4E-07	mg/kg-day	5.4E-01	1/(mg/kg-day)	2.4E-07	3.1E-05	mg/kg-day	1.0E-02	mg/kg-day	3.1E-03
				Vinyl Chloride	7.1E-01	µg/L	1.1E-08	mg/kg-day	7.2E-01	1/(mg/kg-day)	8.2E-09	8.0E-07	mg/kg-day	3.0E-03	mg/kg-day	2.7E-04
				Xylenes, Mixed	1.3E+02	µg/L	--	--	--	--	--	8.1E-04	mg/kg-day	2.0E-01	mg/kg-day	4.0E-03
			Route Total								4.5E-05					6.5E+01
	Exposure Medium Total										4.5E-05					6.5E+01
Groundwater Total											4.5E-05					6.5E+01
										Total of Receptor Risks Across All Media	**5.1E-05**				**Total of Receptor Hazards Across All Media**	**7.8E+01**

Table 7.3.CTE
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Mixed Soil (0 to 10 ft bgs)	Mixed Soil (0 to 10 ft bgs)	Mixed Soil (0 to 10 ft bgs)	Ingestion	Aluminum	1.2E+04	mg/kg	1.4E-04	mg/kg-day	--	--	--	1.0E-02	mg/kg-day	1.0E+00	mg/kg-day	1.0E-02
				Antimony	1.7E+01	mg/kg	2.1E-07	mg/kg-day	--	--	--	1.5E-05	mg/kg-day	4.0E-04	mg/kg-day	3.7E-02
				Arsenic	4.1E+01	mg/kg	4.9E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	7.4E-07	3.4E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
				Barium	1.8E+03	mg/kg	2.2E-05	mg/kg-day	--	--	--	1.5E-03	mg/kg-day	2.0E-01	mg/kg-day	7.5E-03
				Beryllium	3.3E+00	mg/kg	4.0E-08	mg/kg-day	--	--	--	2.8E-06	mg/kg-day	2.0E-03	mg/kg-day	1.4E-03
				Cadmium	4.7E+00	mg/kg	5.6E-08	mg/kg-day	--	--	--	3.9E-06	mg/kg-day	1.0E-03	mg/kg-day	3.9E-03
				Chromium, Hexavalent	2.4E+00	mg/kg	2.9E-08	mg/kg-day	5.0E-01	1/(mg/kg-day)	1.4E-08	2.0E-06	mg/kg-day	3.0E-03	mg/kg-day	6.8E-04
				Cobalt	5.6E+01	mg/kg	6.7E-07	mg/kg-day	--	--	--	4.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.6E-01
				Copper	1.6E+03	mg/kg	1.9E-05	mg/kg-day	--	--	--	1.3E-03	mg/kg-day	4.0E-02	mg/kg-day	3.3E-02
				Iron	6.0E+04	mg/kg	7.1E-04	mg/kg-day	--	--	--	5.0E-02	mg/kg-day	7.0E-01	mg/kg-day	7.1E-02
				Lead	6.6E+02	mg/kg	7.9E-06	mg/kg-day	--	--	--	5.5E-04	mg/kg-day	--	--	--
				Manganese	7.2E+02	mg/kg	8.6E-06	mg/kg-day	--	--	--	6.0E-04	mg/kg-day	2.4E-02	mg/kg-day	2.5E-02
				Mercury (elemental)	1.1E+02	mg/kg	1.4E-06	mg/kg-day	--	--	--	9.5E-05	mg/kg-day	1.6E-04	mg/kg-day	6.0E-01
				Mercury (inorganic)	1.0E+03	mg/kg	1.2E-05	mg/kg-day	--	--	--	8.6E-04	mg/kg-day	3.0E-04	mg/kg-day	2.9E+00
				Nickel	1.0E+02	mg/kg	1.2E-06	mg/kg-day	--	--	--	8.5E-05	mg/kg-day	2.0E-02	mg/kg-day	4.3E-03
				Silver	2.1E+00	mg/kg	2.5E-08	mg/kg-day	--	--	--	1.8E-06	mg/kg-day	5.0E-03	mg/kg-day	3.5E-04
				Vanadium	4.5E+01	mg/kg	5.4E-07	mg/kg-day	--	--	--	3.8E-05	mg/kg-day	7.0E-05	mg/kg-day	5.4E-01
				Zinc	1.1E+04	mg/kg	1.3E-04	mg/kg-day	--	--	--	9.4E-03	mg/kg-day	3.0E-01	mg/kg-day	3.1E-02
				Total PCBs	3.5E+00	mg/kg	4.1E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	8.3E-08	2.9E-06	mg/kg-day	2.0E-05	mg/kg-day	1.4E-01
				Dioxin 2,3,7,8-TCDD TEQ	1.1E-05	mg/kg	1.4E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.8E-08	9.6E-12	mg/kg-day	1.0E-09	mg/kg-day	9.6E-03
				Furan 2,3,7,8-TCDD TEQ	7.2E-04	mg/kg	8.7E-12	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.1E-06	6.1E-10	mg/kg-day	1.0E-09	mg/kg-day	6.1E-01
				Benzo(a)pyrene TEQ	2.3E+00	mg/kg	2.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.1E-07	2.0E-06	mg/kg-day	--	--	--
				Methylnaphthalene, 2-	2.5E+00	mg/kg	2.9E-08	mg/kg-day	--	--	--	2.1E-06	mg/kg-day	4.0E-03	mg/kg-day	5.2E-04
				Chloroaniline, p-	1.3E-01	mg/kg	1.5E-09	mg/kg-day	2.0E-01	1/(mg/kg-day)	3.1E-10	1.1E-07	mg/kg-day	4.0E-03	mg/kg-day	2.7E-05
				Naphthalene	4.7E+00	mg/kg	5.6E-08	mg/kg-day	--	--	--	3.9E-06	mg/kg-day	2.0E-02	mg/kg-day	2.0E-04
				Phenanthrene	7.3E+00	mg/kg	8.8E-08	mg/kg-day	--	--	--	6.2E-06	mg/kg-day	3.0E-02	mg/kg-day	2.1E-04
				Bis(2-ethylhexyl) phthalate	3.8E+00	mg/kg	4.5E-08	mg/kg-day	1.4E-02	1/(mg/kg-day)	6.3E-10	3.2E-06	mg/kg-day	2.0E-02	mg/kg-day	1.6E-04
				Dibenzofuran	2.3E+00	mg/kg	2.7E-08	mg/kg-day	--	--	--	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
				Dichlorobenzene, 1,2-	1.0E+01	mg/kg	1.2E-07	mg/kg-day	--	--	--	8.4E-06	mg/kg-day	9.0E-02	mg/kg-day	9.3E-05
				Dichlorobenzene, 1,4-	2.1E+00	mg/kg	2.6E-08	mg/kg-day	5.4E-03	1/(mg/kg-day)	1.4E-10	1.8E-06	mg/kg-day	7.0E-02	mg/kg-day	2.6E-05
				Hexachlorobenzene	2.9E+01	mg/kg	3.5E-07	mg/kg-day	1.6E+00	1/(mg/kg-day)	5.7E-07	2.5E-05	mg/kg-day	8.0E-04	mg/kg-day	3.1E-02
				Hexachlorobutadiene	4.9E+00	mg/kg	5.9E-08	mg/kg-day	7.8E-02	1/(mg/kg-day)	4.6E-09	4.1E-06	mg/kg-day	1.0E-03	mg/kg-day	4.1E-03
				Trichlorobenzene, 1,2,4-	5.8E+01	mg/kg	7.0E-07	mg/kg-day	2.9E-02	1/(mg/kg-day)	2.0E-08	4.9E-05	mg/kg-day	1.0E-02	mg/kg-day	4.9E-03
				Benzene	2.7E+00	mg/kg	3.2E-08	mg/kg-day	5.5E-02	1/(mg/kg-day)	1.8E-09	2.2E-06	mg/kg-day	4.0E-03	mg/kg-day	5.6E-04
				Chlorobenzene	1.4E+00	mg/kg	1.6E-08	mg/kg-day	--	--	--	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.7E-05
				Chloroform	9.0E-01	mg/kg	1.1E-08	mg/kg-day	3.1E-02	1/(mg/kg-day)	3.3E-10	7.5E-07	mg/kg-day	1.0E-02	mg/kg-day	7.5E-05
				Ethylbenzene	2.7E-01	mg/kg	3.3E-09	mg/kg-day	1.1E-02	1/(mg/kg-day)	3.6E-11	2.3E-07	mg/kg-day	1.0E-01	mg/kg-day	2.3E-06
				Methylene Chloride	1.2E+01	mg/kg	1.4E-07	mg/kg-day	7.5E-03	1/(mg/kg-day)	1.1E-09	9.9E-06	mg/kg-day	6.0E-02	mg/kg-day	1.7E-04
				Tetrachloroethylene (PCE)	1.7E-01	mg/kg	2.1E-09	mg/kg-day	5.4E-01	1/(mg/kg-day)	1.1E-09	1.5E-07	mg/kg-day	1.0E-02	mg/kg-day	1.5E-05
				Trichloroethylene (TCE)	3.8E+00	mg/kg	4.5E-08	mg/kg-day	5.9E-03	1/(mg/kg-day)	2.7E-10	3.2E-06	mg/kg-day	--	--	--
				Vinyl Chloride	8.9E-03	mg/kg	1.1E-10	mg/kg-day	7.2E-01	1/(mg/kg-day)	7.7E-11	7.5E-09	mg/kg-day	3.0E-03	mg/kg-day	2.5E-06
			Route Total								2.8E-06					5.3E+00
			Dermal Contact	Aluminum	1.2E+04	mg/kg	--	--	--	--	--	--	--	1.0E+00	mg/kg-day	--
				Antimony	1.7E+01	mg/kg	--	--	--	--	--	--	--	6.0E-05	mg/kg-day	--
				Arsenic	4.1E+01	mg/kg	4.4E-08	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.6E-08	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
				Barium	1.8E+03	mg/kg	--	--	--	--	--	--	--	1.4E-02	mg/kg-day	--
				Beryllium	3.3E+00	mg/kg	--	--	--	--	--	--	--	1.4E-05	mg/kg-day	--
				Cadmium	4.7E+00	mg/kg	--	--	--	--	--	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.7E-04
				Chromium, Hexavalent	2.4E+00	mg/kg	--	--	2.0E+01	1/(mg/kg-day)	--	--	--	7.5E-05	mg/kg-day	--

Table 7.3.CTE
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Mixed Soil (0 to 10 ft bgs) (continued)	Mixed Soil (0 to 10 ft bgs) (continued)	Mixed Soil (0 to 10 ft bgs) (continued)	Dermal Contact (continued)	Cobalt	5.6E+01	mg/kg	--	--	--	--	--	--	--	3.0E-04	mg/kg-day	--
				Copper	1.6E+03	mg/kg	--	--	--	--	--	--	--	4.0E-02	mg/kg-day	--
				Iron	6.0E+04	mg/kg	--	--	--	--	--	--	--	7.0E-01	mg/kg-day	--
				Lead	6.6E+02	mg/kg	--	--	--	--	--	--	--	--	--	--
				Manganese	7.2E+02	mg/kg	--	--	--	--	--	--	--	9.6E-04	mg/kg-day	--
				Mercury (elemental)	1.1E+02	mg/kg	--	--	--	--	--	--	--	1.6E-04	mg/kg-day	--
				Mercury (inorganic)	1.0E+03	mg/kg	--	--	--	--	--	--	--	2.1E-05	mg/kg-day	--
				Nickel	1.0E+02	mg/kg	--	--	--	--	--	--	--	8.0E-04	mg/kg-day	--
				Silver	2.1E+00	mg/kg	--	--	--	--	--	--	--	2.0E-04	mg/kg-day	--
				Vanadium	4.5E+01	mg/kg	--	--	--	--	--	--	--	1.8E-06	mg/kg-day	--
				Zinc	1.1E+04	mg/kg	--	--	--	--	--	--	--	3.0E-01	mg/kg-day	--
				Total PCBs	3.5E+00	mg/kg	1.7E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.5E-08	1.2E-06	mg/kg-day	2.0E-05	mg/kg-day	6.1E-02
				Dioxin 2,3,7,8-TCDD TEQ	1.1E-05	mg/kg	1.2E-14	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.6E-09	8.7E-13	mg/kg-day	1.0E-09	mg/kg-day	8.7E-04
				Furan 2,3,7,8-TCDD TEQ	7.2E-04	mg/kg	7.8E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.0E-07	5.5E-11	mg/kg-day	1.0E-09	mg/kg-day	5.5E-02
				Benzo(a)pyrene TEQ	2.3E+00	mg/kg	1.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	8.0E-08	--	--	--	--	--
				Methylnaphthalene, 2-	2.5E+00	mg/kg	--	--	--	--	--	--	--	4.0E-03	mg/kg-day	--
				Chloroaniline, p-	1.3E-01	mg/kg	4.6E-10	mg/kg-day	2.0E-01	1/(mg/kg-day)	9.3E-11	3.2E-08	mg/kg-day	4.0E-03	mg/kg-day	8.1E-06
				Naphthalene	4.7E+00	mg/kg	--	--	--	--	--	1.5E-06	mg/kg-day	2.0E-02	mg/kg-day	7.6E-05
				Phenanthrene	7.3E+00	mg/kg	3.4E-08	mg/kg-day	--	--	--	2.4E-06	mg/kg-day	3.0E-02	mg/kg-day	8.0E-05
				Bis(2-ethylhexyl) phthalate	3.8E+00	mg/kg	1.4E-08	mg/kg-day	1.4E-02	1/(mg/kg-day)	1.9E-10	9.5E-07	mg/kg-day	2.0E-02	mg/kg-day	4.8E-05
				Dibenzofuran	2.3E+00	mg/kg	--	--	--	--	--	--	--	1.0E-03	mg/kg-day	--
				Dichlorobenzene, 1,2-	1.0E+01	mg/kg	--	--	--	--	--	--	--	9.0E-02	mg/kg-day	--
				Dichlorobenzene, 1,4-	2.1E+00	mg/kg	--	--	5.4E-03	1/(mg/kg-day)	--	--	--	7.0E-02	mg/kg-day	--
				Hexachlorobenzene	2.9E+01	mg/kg	1.1E-07	mg/kg-day	1.6E+00	1/(mg/kg-day)	1.7E-07	7.4E-06	mg/kg-day	8.0E-04	mg/kg-day	9.3E-03
				Hexachlorobutadiene	4.9E+00	mg/kg	1.8E-08	mg/kg-day	7.8E-02	1/(mg/kg-day)	1.4E-09	1.2E-06	mg/kg-day	1.0E-03	mg/kg-day	1.2E-03
				Trichlorobenzene, 1,2,4-	5.8E+01	mg/kg	--	--	2.9E-02	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Benzene	2.7E+00	mg/kg	--	--	5.5E-02	1/(mg/kg-day)	--	--	--	4.0E-03	mg/kg-day	--
				Chlorobenzene	1.4E+00	mg/kg	--	--	--	--	--	--	--	2.0E-02	mg/kg-day	--
				Chloroform	9.0E-01	mg/kg	--	--	3.1E-02	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Ethylbenzene	2.7E-01	mg/kg	--	--	1.1E-02	1/(mg/kg-day)	--	--	--	1.0E-01	mg/kg-day	--
				Methylene Chloride	1.2E+01	mg/kg	--	--	7.5E-03	1/(mg/kg-day)	--	--	--	6.0E-02	mg/kg-day	--
				Tetrachloroethylene (PCE)	1.7E-01	mg/kg	--	--	5.4E-01	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
				Trichloroethylene (TCE)	3.8E+00	mg/kg	--	--	5.9E-03	1/(mg/kg-day)	--	--	--	--	--	--
				Vinyl Chloride	8.9E-03	mg/kg	--	--	7.2E-01	1/(mg/kg-day)	--	--	--	3.0E-03	mg/kg-day	--
			Route Total								4.6E-07					1.4E-01
Exposure Medium Total											3.2E-06					5.4E+00
	Outdoor Air	Paritculates/ Vapors in Outdoor Air	Inhalation	Aluminum	1.2E+04	mg/kg	1.5E-05	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	1.1E-06	mg/m^3	5.0E-03	mg/m^3	2.1E-04
				Antimony	1.7E+01	mg/kg	2.2E-08	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	1.5E-09	mg/m^3	--	mg/m^3	--
				Arsenic	4.1E+01	mg/kg	5.2E-08	$\mu g/m^3$	4.3E-03	$1/(\mu g/m^3)$	2.2E-10	3.6E-09	mg/m^3	1.5E-05	mg/m^3	2.4E-04
				Barium	1.8E+03	mg/kg	2.3E-06	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	1.6E-07	mg/m^3	5.0E-04	mg/m^3	3.2E-04
				Beryllium	3.3E+00	mg/kg	4.1E-09	$\mu g/m^3$	2.4E-03	$1/(\mu g/m^3)$	9.9E-12	2.9E-10	mg/m^3	2.0E-05	mg/m^3	1.4E-05
				Cadmium	4.7E+00	mg/kg	5.9E-09	$\mu g/m^3$	1.8E-03	$1/(\mu g/m^3)$	1.1E-11	4.1E-10	mg/m^3	1.0E-05	mg/m^3	4.1E-05
				Chromium, Hexavalent	2.4E+00	mg/kg	3.0E-09	$\mu g/m^3$	8.4E-02	$1/(\mu g/m^3)$	2.5E-10	2.1E-10	mg/m^3	1.0E-04	mg/m^3	2.1E-06
				Cobalt	5.6E+01	mg/kg	7.0E-08	$\mu g/m^3$	9.0E-03	$1/(\mu g/m^3)$	6.3E-10	4.9E-09	mg/m^3	6.0E-06	mg/m^3	8.1E-04
				Copper	1.6E+03	mg/kg	2.0E-06	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	1.4E-07	mg/m^3	--	mg/m^3	--
				Iron	6.0E+04	mg/kg	7.5E-05	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	5.2E-06	mg/m^3	--	mg/m^3	--
				Lead	6.6E+02	mg/kg	8.2E-07	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	5.8E-08	mg/m^3	--	mg/m^3	--
				Manganese	7.2E+02	mg/kg	9.0E-07	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	6.3E-08	mg/m^3	5.0E-05	mg/m^3	1.3E-03
				Mercury (elemental)	1.1E+02	mg/kg	1.4E-07	$\mu g/m^3$	--	$1/(\mu g/m^3)$	--	3.0E-04	mg/m^3	3.0E-04	mg/m^3	1.0E+00

Table 7.3.CTE
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Mixed Soil (0 to 10 ft bgs) (continued)	Outdoor Air (continued)	Paritculates/ Vapors in Outdoor Air (continued)	Inhalation (continued)	Mercury (inorganic)	1.0E+03	mg/kg	1.3E-06	µg/m^3	--	1/(µg/m^3)	--	9.0E-08	mg/m^3	3.0E-05	mg/m^3	3.0E-03
				Nickel	1.0E+02	mg/kg	1.3E-07	µg/m^3	2.6E-04	1/(µg/m^3)	3.3E-11	8.9E-09	mg/m^3	9.0E-05	mg/m^3	9.9E-05
				Silver	2.1E+00	mg/kg	2.6E-09	µg/m^3	--	1/(µg/m^3)	--	1.8E-10	mg/m^3	--	mg/m^3	--
				Vanadium	4.5E+01	mg/kg	5.6E-08	µg/m^3	--	1/(µg/m^3)	--	3.9E-09	mg/m^3	1.0E-04	mg/m^3	3.9E-05
				Zinc	1.1E+04	mg/kg	1.4E-05	µg/m^3	--	1/(µg/m^3)	--	9.8E-07	mg/m^3	--	mg/m^3	--
				Total PCBs	3.5E+00	mg/kg	4.3E-09	µg/m^3	5.7E-04	1/(µg/m^3)	2.5E-12	3.0E-10	mg/m^3	--	mg/m^3	--
				Dioxin 2,3,7,8-TCDD TEQ	1.1E-05	mg/kg	1.4E-14	µg/m^3	3.8E+01	1/(µg/m^3)	5.5E-13	1.0E-15	mg/m^3	4.0E-08	mg/m^3	2.5E-08
				Furan 2,3,7,8-TCDD TEQ	7.2E-04	mg/kg	9.1E-13	µg/m^3	3.8E+01	1/(µg/m^3)	3.4E-11	6.4E-14	mg/m^3	4.0E-08	mg/m^3	1.6E-06
				Benzo(a)pyrene TEQ	2.3E+00	mg/kg	2.9E-09	µg/m^3	1.1E-03	1/(µg/m^3)	3.2E-12	2.1E-10	mg/m^3	--	mg/m^3	--
				Methylnaphthalene, 2-	2.5E+00	mg/kg	3.1E-09	µg/m^3	--	1/(µg/m^3)	--	2.2E-10	mg/m^3	--	mg/m^3	--
				Chloroaniline, p-	1.3E-01	mg/kg	1.6E-10	µg/m^3	--	1/(µg/m^3)	--	1.1E-11	mg/m^3	--	mg/m^3	--
				Naphthalene	4.7E+00	mg/kg	1.2E-04	µg/m^3	3.4E-05	1/(µg/m^3)	3.9E-09	8.1E-06	mg/m^3	3.0E-03	mg/m^3	2.7E-03
				Phenanthrene	7.3E+00	mg/kg	9.2E-09	µg/m^3	--	1/(µg/m^3)	--	6.4E-10	mg/m^3	--	mg/m^3	--
				Bis(2-ethylhexyl) phthalate	3.8E+00	mg/kg	4.7E-09	µg/m^3	2.4E-06	1/(µg/m^3)	1.1E-14	3.3E-10	mg/m^3	--	mg/m^3	--
				Dibenzofuran	2.3E+00	mg/kg	2.8E-09	µg/m^3	--	1/(µg/m^3)	--	2.0E-10	mg/m^3	--	mg/m^3	--
				Dichlorobenzene, 1,2-	1.0E+01	mg/kg	1.2E-08	µg/m^3	--	1/(µg/m^3)	--	6.9E-05	mg/m^3	2.0E-01	mg/m^3	3.4E-04
				Dichlorobenzene, 1,4-	2.1E+00	mg/kg	2.4E-04	µg/m^3	1.1E-05	1/(µg/m^3)	2.6E-09	1.6E-05	mg/m^3	8.0E-01	mg/m^3	2.1E-05
				Hexachlorobenzene	2.9E+01	mg/kg	3.7E-08	µg/m^3	4.6E-04	1/(µg/m^3)	1.7E-11	2.6E-09	mg/m^3	--	mg/m^3	--
				Hexachlorobutadiene	4.9E+00	mg/kg	6.2E-09	µg/m^3	2.2E-05	1/(µg/m^3)	1.4E-13	4.3E-10	mg/m^3	--	mg/m^3	--
				Trichlorobenzene, 1,2,4-	5.8E+01	mg/kg	7.3E-08	µg/m^3	--	1/(µg/m^3)	--	1.6E-04	mg/m^3	2.0E-03	mg/m^3	7.9E-02
				Benzene	2.7E+00	mg/kg	8.7E-04	µg/m^3	7.8E-06	1/(µg/m^3)	6.8E-09	6.1E-05	mg/m^3	3.0E-02	mg/m^3	2.0E-03
				Chlorobenzene	1.4E+00	mg/kg	1.7E-09	µg/m^3	--	1/(µg/m^3)	--	1.7E-05	mg/m^3	5.0E-02	mg/m^3	3.4E-04
				Chloroform	9.0E-01	mg/kg	3.9E-04	µg/m^3	2.3E-05	1/(µg/m^3)	9.0E-09	2.8E-05	mg/m^3	9.8E-02	mg/m^3	2.8E-04
				Ethylbenzene	2.7E-01	mg/kg	5.6E-05	µg/m^3	2.5E-06	1/(µg/m^3)	1.4E-10	3.9E-06	mg/m^3	1.0E+00	mg/m^3	3.9E-06
				Methylene Chloride	1.2E+01	mg/kg	6.2E-03	µg/m^3	4.7E-07	1/(µg/m^3)	2.9E-09	4.4E-04	mg/m^3	1.0E+00	mg/m^3	4.4E-04
				Tetrachloroethylene (PCE)	1.7E-01	mg/kg	8.6E-05	µg/m^3	5.9E-06	1/(µg/m^3)	5.1E-10	6.0E-06	mg/m^3	2.7E-01	mg/m^3	2.2E-05
				Trichloroethylene (TCE)	3.8E+00	mg/kg	2.0E-03	µg/m^3	2.0E-06	1/(µg/m^3)	3.9E-09	3.3E-10	mg/m^3	--	mg/m^3	--
				Vinyl Chloride	8.9E-03	mg/kg	1.1E-05	µg/m^3	4.4E-06	1/(µg/m^3)	4.7E-11	7.5E-07	mg/m^3	1.0E-01	mg/m^3	7.5E-06
			Route Total								3.1E-08					1.1E+00
	Exposure Medium Total										3.1E-08					1.1E+00
Mixed Soil Total											3.3E-06					6.5E+00
Groundwater	Shallow (Overburden) Groundwater	Shallow (Overburden) Groundwater at the Water Table	Dermal Contact	Antimony	6.0E+00	µg/L	--	--	--	--	--	4.0E-07	mg/kg-day	6.0E-05	mg/kg-day	6.7E-03
				Arsenic	2.8E+02	µg/L	2.6E-07	mg/kg-day	1.5E+00	1/(mg/kg-day)	4.0E-07	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.2E-02
				Barium	1.4E+04	µg/L	--	--	--	--	--	9.5E-04	mg/kg-day	1.4E-02	mg/kg-day	6.8E-02
				Cadmium	2.3E+01	µg/L	--	--	--	--	--	1.5E-06	mg/kg-day	2.5E-05	mg/kg-day	6.2E-02
				Cobalt	1.9E+02	µg/L	--	--	--	--	--	5.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Iron	3.5E+05	µg/L	--	--	--	--	--	2.3E-02	mg/kg-day	7.0E-01	mg/kg-day	3.3E-02
				Manganese	2.2E+05	µg/L	--	--	--	--	--	1.5E-02	mg/kg-day	9.6E-04	mg/kg-day	1.5E+01
				Mercury	2.3E+02	µg/L	--	--	--	--	--	1.6E-05	mg/kg-day	2.1E-05	mg/kg-day	7.5E-01
				Methyl Mercury	1.7E+02	µg/L	--	--	--	--	--	1.1E-05	mg/kg-day	1.0E-04	mg/kg-day	1.1E-01
				Vanadium	1.4E+02	µg/L	--	--	--	--	--	9.1E-06	mg/kg-day	1.8E-06	mg/kg-day	5.0E+00
				Zinc	1.7E+03	µg/L	--	--	--	--	--	6.8E-05	mg/kg-day	3.0E-01	mg/kg-day	2.3E-04
				Cyanide	7.7E+01	µg/L	--	--	--	--	--	5.2E-06	mg/kg-day	2.0E-02	mg/kg-day	2.6E-04
				Dioxin 2,3,7,8-TCDD TEQ	1.9E-05	µg/L	1.5E-11	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.9E-06	1.0E-09	mg/kg-day	1.0E-09	mg/kg-day	1.0E+00
				Furan 2,3,7,8-TCDD TEQ	1.6E-04	µg/L	1.0E-10	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.3E-05	7.1E-09	mg/kg-day	1.0E-09	mg/kg-day	7.1E+00
				Benz(a)anthracene	7.8E-01	µg/L	4.1E-07	mg/kg-day	7.3E-01	1/(mg/kg-day)	3.0E-07	--	--	--	--	--
				Naphthalene	5.6E+02	µg/L	--	--	--	--	--	1.8E-03	mg/kg-day	2.0E-02	mg/kg-day	8.8E-02
				Carbazole	1.4E+02	µg/L	7.4E-06	mg/kg-day	2.0E-02	1/(mg/kg-day)	1.5E-07	--	--	--	--	--
				Chloroaniline, p-	4.5E+03	µg/L	2.1E-05	mg/kg-day	2.0E-01	1/(mg/kg-day)	4.2E-06	1.5E-03	mg/kg-day	4.0E-03	mg/kg-day	3.7E-01

Table 7.3.CTE
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Groundwater (continued)	Shallow (Overburden) Groundwater (continued)	Shallow (Overburden) Groundwater at the Water Table (continued)	Dermal Contact (continued)	Dibenzofuran	1.6E+01	µg/L	--	--	--	--	--	1.1E-04	mg/kg-day	1.0E-03	mg/kg-day	1.1E-01
				Dichlorobenzene, 1,2-	4.2E+03	µg/L	--	--	--	--	--	1.3E-02	mg/kg-day	9.0E-02	mg/kg-day	1.4E-01
				Dichlorobenzene, 1,3-	2.0E+02	µg/L	--	--	--	--	--	6.9E-04	mg/kg-day	9.0E-02	mg/kg-day	7.7E-03
				Dichlorobenzene, 1,4-	5.8E+02	µg/L	2.5E-05	mg/kg-day	5.4E-03	1/(mg/kg-day)	1.4E-07	1.8E-03	mg/kg-day	7.0E-02	mg/kg-day	2.5E-02
				Hexachlorobenzene	1.0E+00	µg/L	2.4E-07	mg/kg-day	1.6E+00	1/(mg/kg-day)	3.9E-07	1.7E-05	mg/kg-day	8.0E-04	mg/kg-day	2.1E-02
				Nitrobenzene	5.5E+01	µg/L	--	--	--	--	--	2.0E-05	mg/kg-day	2.0E-03	mg/kg-day	1.0E-02
				Dichlorophenol, 2,4-	1.2E+01	µg/L	--	--	--	--	--	1.6E-05	mg/kg-day	3.0E-03	mg/kg-day	5.4E-03
				Chlorophenol, 2-	2.6E+01	µg/L	--	--	--	--	--	1.4E-05	mg/kg-day	5.0E-03	mg/kg-day	2.8E-03
				Pentachlorophenol	1.9E+00	µg/L	2.3E-07	mg/kg-day	4.0E-01	1/(mg/kg-day)	9.1E-08	1.6E-05	mg/kg-day	5.0E-03	mg/kg-day	3.2E-03
				Trichlorobenzene, 1,2,4-	2.9E+02	µg/L	1.9E-05	mg/kg-day	2.9E-02	1/(mg/kg-day)	5.6E-07	1.3E-03	mg/kg-day	1.0E-02	mg/kg-day	1.3E-01
				Benzene	8.5E+02	µg/L	1.2E-05	mg/kg-day	5.5E-02	1/(mg/kg-day)	6.7E-07	8.5E-04	mg/kg-day	4.0E-03	mg/kg-day	2.1E-01
				Chlorobenzene	1.6E+04	µg/L	--	--	--	--	--	3.1E-02	mg/kg-day	2.0E-02	mg/kg-day	1.5E+00
				Chloroform	3.5E+00	µg/L	2.3E-08	mg/kg-day	3.1E-02	1/(mg/kg-day)	7.1E-10	1.6E-06	mg/kg-day	1.0E-02	mg/kg-day	1.6E-04
				Dichloroethane, 1,1-	2.6E+00	µg/L	1.7E-08	mg/kg-day	5.7E-03	1/(mg/kg-day)	9.6E-11	1.2E-06	mg/kg-day	2.0E-01	mg/kg-day	5.9E-06
				Dichloroethane, 1,2-	1.8E+00	µg/L	7.3E-09	mg/kg-day	9.1E-02	1/(mg/kg-day)	6.6E-10	5.1E-07	mg/kg-day	2.0E-02	mg/kg-day	2.5E-05
				Ethylbenzene	3.0E+01	µg/L	1.4E-06	mg/kg-day	1.1E-02	1/(mg/kg-day)	1.6E-08	1.0E-04	mg/kg-day	1.0E-01	mg/kg-day	1.0E-03
				Methylene Chloride	2.0E+03	µg/L	6.7E-06	mg/kg-day	7.5E-03	1/(mg/kg-day)	5.0E-08	4.7E-04	mg/kg-day	6.0E-02	mg/kg-day	7.8E-03
				Tetrachloroethylene (PCE)	6.9E+00	µg/L	2.2E-07	mg/kg-day	5.4E-01	1/(mg/kg-day)	1.2E-07	1.5E-05	mg/kg-day	1.0E-02	mg/kg-day	1.5E-03
				Vinyl Chloride	7.1E-01	µg/L	5.7E-09	mg/kg-day	7.2E-01	1/(mg/kg-day)	4.1E-09	4.0E-07	mg/kg-day	3.0E-03	mg/kg-day	1.3E-04
				Xylenes, Mixed	1.3E+02	µg/L	--	--	--	--	--	4.0E-04	mg/kg-day	2.0E-01	mg/kg-day	2.0E-03
			Route Total								2.2E-05					3.2E+01
	Exposure Medium Total										2.2E-05					3.2E+01
Groundwater Total											2.2E-05					3.2E+01
										Total of Receptor Risks Across All Media	**2.6E-05**				**Total of Receptor Hazards Across All Media**	**3.9E+01**

Table 7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CURRENT/FUTURE TRESPASSER - SEDIMENT/BANK SOIL
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Current/Future (RME)
Receptor Population: Trespasser
Receptor Age: Adolescent (Ages 7-16)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
					Value	Units	Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
							Value	Units	Value	Units		Value	Units	Value	Units	
Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Ingestion	Aluminum	1.3E+04	mg/kg	3.9E-04	mg/kg-day	--	--	--	2.7E-03	mg/kg-day	1.0E+00	mg/kg-day	2.7E-03
				Antimony	5.2E+00	mg/kg	1.5E-07	mg/kg-day	--	--	--	1.1E-06	mg/kg-day	4.0E-04	mg/kg-day	2.7E-03
				Arsenic	3.9E+02	mg/kg	1.1E-05	mg/kg-day	1.5E+00	1/(mg/kg-day)	1.7E-05	8.0E-05	mg/kg-day	3.0E-04	mg/kg-day	2.7E-01
				Barium	7.1E+03	mg/kg	2.1E-04	mg/kg-day	--	--	--	1.4E-03	mg/kg-day	2.0E-01	mg/kg-day	7.2E-03
				Cadmium	4.3E+01	mg/kg	1.3E-06	mg/kg-day	--	--	--	8.8E-06	mg/kg-day	1.0E-03	mg/kg-day	8.8E-03
				Chromium, Hexavalent	3.9E+00	mg/kg	1.1E-07	mg/kg-day	5.0E-01	1/(mg/kg-day)	5.7E-08	7.9E-07	mg/kg-day	3.0E-03	mg/kg-day	2.6E-04
				Cobalt	9.9E+00	mg/kg	2.9E-07	mg/kg-day	--	--	--	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.7E-03
				Copper	3.2E+02	mg/kg	9.2E-06	mg/kg-day	--	--	--	6.4E-05	mg/kg-day	4.0E-02	mg/kg-day	1.6E-03
				Iron	3.8E+04	mg/kg	1.1E-03	mg/kg-day	--	--	--	7.7E-03	mg/kg-day	7.0E-01	mg/kg-day	1.1E-02
				Lead	4.2E+02	mg/kg	1.2E-05	mg/kg-day	--	--	--	8.5E-05	mg/kg-day	--	--	--
				Manganese	2.9E+02	mg/kg	8.4E-06	mg/kg-day	--	--	--	5.9E-05	mg/kg-day	2.4E-02	mg/kg-day	2.5E-03
				Mercury (elemental)	1.0E+02	mg/kg	3.0E-06	mg/kg-day	--	--	--	2.1E-05	mg/kg-day	1.6E-04	mg/kg-day	1.3E-01
				Mercury (inorganic)	9.1E+02	mg/kg	2.7E-05	mg/kg-day	--	--	--	1.9E-04	mg/kg-day	3.0E-04	mg/kg-day	6.2E-01
				Vanadium	4.9E+01	mg/kg	1.4E-06	mg/kg-day	--	--	--	9.9E-06	mg/kg-day	7.0E-05	mg/kg-day	1.4E-01
				Zinc	1.6E+03	mg/kg	4.6E-05	mg/kg-day	--	--	--	3.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
				Total PCBs	5.2E-01	mg/kg	1.5E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	3.0E-08	1.1E-07	mg/kg-day	2.0E-05	mg/kg-day	5.3E-03
				Dioxin 2,3,7,8-TCDD TEQ	2.6E-05	mg/kg	7.5E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	9.8E-08	5.3E-12	mg/kg-day	1.0E-09	mg/kg-day	5.3E-03
				Furan 2,3,7,8-TCDD TEQ	1.1E-04	mg/kg	3.3E-12	mg/kg-day	1.3E+05	1/(mg/kg-day)	4.2E-07	2.3E-11	mg/kg-day	1.0E-09	mg/kg-day	2.3E-02
				Benzo(a)pyrene TEQ	6.0E-01	mg/kg	1.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	1.3E-07	1.2E-07	mg/kg-day	--	--	--
				Dichlorobenzene, 1,4-	2.1E+00	mg/kg	6.0E-08	mg/kg-day	5.4E-03	1/(mg/kg-day)	3.2E-10	4.2E-07	mg/kg-day	7.0E-02	mg/kg-day	6.0E-06
				Hexachlorobenzene	7.1E-02	mg/kg	2.1E-09	mg/kg-day	1.6E+00	1/(mg/kg-day)	3.3E-09	1.5E-08	mg/kg-day	8.0E-04	mg/kg-day	1.8E-05
				Chlorobenzene	1.3E+01	mg/kg	3.8E-07	mg/kg-day	--	--	--	2.7E-06	mg/kg-day	2.0E-02	mg/kg-day	1.3E-04
				Chloroform	4.4E-01	mg/kg	1.3E-08	mg/kg-day	3.1E-02	1/(mg/kg-day)	4.0E-10	9.0E-08	mg/kg-day	1.0E-02	mg/kg-day	9.0E-06
			Route Total								1.8E-05					1.2E+00
			Dermal Contact	Aluminum	1.3E+04	mg/kg	--	--	--	--	--	--	--	1.0E+00	mg/kg-day	--
				Antimony	5.2E+00	mg/kg	--	--	--	--	--	--	--	6.0E-05	mg/kg-day	--
				Arsenic	3.9E+02	mg/kg	4.2E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	6.4E-06	3.0E-05	mg/kg-day	3.0E-04	mg/kg-day	9.9E-02
				Barium	7.1E+03	mg/kg	--	--	--	--	--	--	--	1.4E-02	mg/kg-day	--
				Cadmium	4.3E+01	mg/kg	--	--	--	--	--	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.3E-03
				Chromium, Hexavalent	3.9E+00	mg/kg	--	--	2.0E+01	1/(mg/kg-day)	--	--	--	7.5E-05	mg/kg-day	--
				Cobalt	9.9E+00	mg/kg	--	--	--	--	--	--	--	3.0E-04	mg/kg-day	--
				Copper	3.2E+02	mg/kg	--	--	--	--	--	--	--	4.0E-02	mg/kg-day	--
				Iron	3.8E+04	mg/kg	--	--	--	--	--	--	--	7.0E-01	mg/kg-day	--
				Lead	4.2E+02	mg/kg	--	--	--	--	--	--	--	--	--	--
				Manganese	2.9E+02	mg/kg	--	--	--	--	--	--	--	9.6E-04	mg/kg-day	--
				Mercury (elemental)	1.0E+02	mg/kg	--	--	--	--	--	--	--	1.6E-04	mg/kg-day	--
				Mercury (inorganic)	9.1E+02	mg/kg	--	--	--	--	--	--	--	2.1E-05	mg/kg-day	--
				Vanadium	4.9E+01	mg/kg	--	--	--	--	--	--	--	1.8E-06	mg/kg-day	--
				Zinc	1.6E+03	mg/kg	--	--	--	--	--	--	--	3.0E-01	mg/kg-day	--
				Total PCBs	5.2E-01	mg/kg	2.6E-08	mg/kg-day	2.0E+00	1/(mg/kg-day)	5.2E-08	1.8E-07	mg/kg-day	2.0E-05	mg/kg-day	9.1E-03
				Dioxin 2,3,7,8-TCDD TEQ	2.6E-05	mg/kg	2.8E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	3.6E-08	1.9E-12	mg/kg-day	1.0E-09	mg/kg-day	1.9E-03
				Furan 2,3,7,8-TCDD TEQ	1.1E-04	mg/kg	1.2E-12	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.6E-07	8.4E-12	mg/kg-day	1.0E-09	mg/kg-day	8.4E-03
				Benzo(a)pyrene TEQ	6.0E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.1E-07	--	--	--	--	--
				Dichlorobenzene, 1,4-	2.1E+00	mg/kg	--	--	5.4E-03	1/(mg/kg-day)	--	--	--	7.0E-02	mg/kg-day	--
				Hexachlorobenzene	7.1E-02	mg/kg	2.6E-09	mg/kg-day	1.6E+00	1/(mg/kg-day)	4.1E-09	1.8E-08	mg/kg-day	8.0E-04	mg/kg-day	2.2E-05
				Chlorobenzene	1.3E+01	mg/kg	--	--	--	--	--	--	--	2.0E-02	mg/kg-day	--
				Chloroform	4.4E-01	mg/kg	--	--	3.1E-02	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
			Route Total								6.8E-06					1.2E-01
	Exposure Medium Total										2.5E-05					1.4E+00
Sediment Total											2.5E-05					1.4E+00
										Total of Receptor Risks Across All Media	2.5E-05				Total of Receptor Hazards Across All Media	1.4E+00

Table 7.4.CTE
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CURRENT/FUTURE TRESPASSER - SEDIMENT/BANK SOIL
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Current/Future (CTE)
Receptor Population: Trespasser
Receptor Age: Adolescent (Ages 7-16)

Medium	Exposure Medium	Exposure Point	Exposure Route	Chemical of Potential Concern	EPC		Cancer Risk Calculations					Non-Cancer Hazard Calculations				
							Intake		CSF		Cancer Risk	Intake		RfD		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Ingestion	Aluminum	1.3E+04	mg/kg	7.3E-05	mg/kg-day	--	--	--	5.1E-04	mg/kg-day	1.0E+00	mg/kg-day	5.1E-04
				Antimony	5.2E+00	mg/kg	2.9E-08	mg/kg-day	--	--	--	2.0E-07	mg/kg-day	4.0E-04	mg/kg-day	5.0E-04
				Arsenic	3.9E+02	mg/kg	2.2E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	3.2E-06	1.5E-05	mg/kg-day	3.0E-04	mg/kg-day	5.0E-02
				Barium	7.1E+03	mg/kg	3.9E-05	mg/kg-day	--	--	--	2.7E-04	mg/kg-day	2.0E-01	mg/kg-day	1.4E-03
				Cadmium	4.3E+01	mg/kg	2.4E-07	mg/kg-day	--	--	--	1.6E-06	mg/kg-day	1.0E-03	mg/kg-day	1.6E-03
				Chromium, Hexavalent	3.9E+00	mg/kg	2.1E-08	mg/kg-day	5.0E-01	1/(mg/kg-day)	1.1E-08	1.5E-07	mg/kg-day	3.0E-03	mg/kg-day	4.9E-05
				Cobalt	9.9E+00	mg/kg	5.4E-08	mg/kg-day	--	--	--	3.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.3E-03
				Copper	3.2E+02	mg/kg	1.7E-06	mg/kg-day	--	--	--	1.2E-05	mg/kg-day	4.0E-02	mg/kg-day	3.0E-04
				Iron	3.8E+04	mg/kg	2.1E-04	mg/kg-day	--	--	--	1.4E-03	mg/kg-day	7.0E-01	mg/kg-day	2.1E-03
				Lead	4.2E+02	mg/kg	2.3E-06	mg/kg-day	--	--	--	1.6E-05	mg/kg-day	--	--	--
				Manganese	2.9E+02	mg/kg	1.6E-06	mg/kg-day	--	--	--	1.1E-05	mg/kg-day	2.4E-02	mg/kg-day	4.6E-04
				Mercury (elemental)	1.0E+02	mg/kg	5.5E-07	mg/kg-day	--	--	--	3.9E-06	mg/kg-day	1.6E-04	mg/kg-day	2.4E-02
				Mercury (inorganic)	9.1E+02	mg/kg	5.0E-06	mg/kg-day	--	--	--	3.5E-05	mg/kg-day	3.0E-04	mg/kg-day	1.2E-01
				Vanadium	4.9E+01	mg/kg	2.7E-07	mg/kg-day	--	--	--	1.9E-06	mg/kg-day	7.0E-05	mg/kg-day	2.7E-02
				Zinc	1.6E+03	mg/kg	8.6E-06	mg/kg-day	--	--	--	6.0E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
				Total PCBs	5.2E-01	mg/kg	2.8E-09	mg/kg-day	2.0E+00	1/(mg/kg-day)	5.7E-09	2.0E-08	mg/kg-day	2.0E-05	mg/kg-day	9.9E-04
				Dioxin 2,3,7,8-TCDD TEQ	2.6E-05	mg/kg	1.4E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.8E-08	9.9E-13	mg/kg-day	1.0E-09	mg/kg-day	9.9E-04
				Furan 2,3,7,8-TCDD TEQ	1.1E-04	mg/kg	6.1E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	8.0E-08	4.3E-12	mg/kg-day	1.0E-09	mg/kg-day	4.3E-03
				Benzo(a)pyrene TEQ	6.0E-01	mg/kg	3.3E-09	mg/kg-day	7.3E+00	1/(mg/kg-day)	2.4E-08	2.3E-08	mg/kg-day	--	--	--
				Dichlorobenzene, 1,4-	2.1E+00	mg/kg	1.1E-08	mg/kg-day	5.4E-03	1/(mg/kg-day)	6.1E-11	7.9E-08	mg/kg-day	7.0E-02	mg/kg-day	1.1E-06
				Hexachlorobenzene	7.1E-02	mg/kg	3.9E-10	mg/kg-day	1.6E+00	1/(mg/kg-day)	6.2E-10	2.7E-09	mg/kg-day	8.0E-04	mg/kg-day	3.4E-06
				Chlorobenzene	1.3E+01	mg/kg	7.1E-08	mg/kg-day	--	--	--	5.0E-07	mg/kg-day	2.0E-02	mg/kg-day	2.5E-05
				Chloroform	4.4E-01	mg/kg	2.4E-09	mg/kg-day	3.1E-02	1/(mg/kg-day)	7.5E-11	1.7E-08	mg/kg-day	1.0E-02	mg/kg-day	1.7E-06
			Route Total								3.4E-06					2.3E-01
			Dermal Contact	Aluminum	1.3E+04	mg/kg	--	--	--	--	--	--	--	1.0E+00	mg/kg-day	--
				Antimony	5.2E+00	mg/kg	--	--	--	--	--	--	--	6.0E-05	mg/kg-day	--
				Arsenic	3.9E+02	mg/kg	1.6E-06	mg/kg-day	1.5E+00	1/(mg/kg-day)	2.4E-06	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.7E-02
				Barium	7.1E+03	mg/kg	--	--	--	--	--	--	--	1.4E-02	mg/kg-day	--
				Cadmium	4.3E+01	mg/kg	--	--	--	--	--	4.1E-08	mg/kg-day	2.5E-05	mg/kg-day	1.6E-03
				Chromium, Hexavalent	3.9E+00	mg/kg	--	--	2.0E+01	1/(mg/kg-day)	--	--	--	7.5E-05	mg/kg-day	--
				Cobalt	9.9E+00	mg/kg	--	--	--	--	--	--	--	3.0E-04	mg/kg-day	--
				Copper	3.2E+02	mg/kg	--	--	--	--	--	--	--	4.0E-02	mg/kg-day	--
				Iron	3.8E+04	mg/kg	--	--	--	--	--	--	--	7.0E-01	mg/kg-day	--
				Lead	4.2E+02	mg/kg	--	--	--	--	--	--	--	--	--	--
				Manganese	2.9E+02	mg/kg	--	--	--	--	--	--	--	9.6E-04	mg/kg-day	--
				Mercury (elemental)	1.0E+02	mg/kg	--	--	--	--	--	--	--	1.6E-04	mg/kg-day	--
				Mercury (inorganic)	9.1E+02	mg/kg	--	--	--	--	--	--	--	2.1E-05	mg/kg-day	--
				Vanadium	4.9E+01	mg/kg	--	--	--	--	--	--	--	1.8E-06	mg/kg-day	--
				Zinc	1.6E+03	mg/kg	--	--	--	--	--	--	--	3.0E-01	mg/kg-day	--
				Total PCBs	5.2E-01	mg/kg	9.8E-09	mg/kg-day	2.0E+00	1/(mg/kg-day)	2.0E-08	6.8E-08	mg/kg-day	2.0E-05	mg/kg-day	3.4E-03
				Dioxin 2,3,7,8-TCDD TEQ	2.6E-05	mg/kg	1.0E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	1.4E-08	7.3E-13	mg/kg-day	1.0E-09	mg/kg-day	7.3E-04
				Furan 2,3,7,8-TCDD TEQ	1.1E-04	mg/kg	4.5E-13	mg/kg-day	1.3E+05	1/(mg/kg-day)	5.9E-08	3.2E-12	mg/kg-day	1.0E-09	mg/kg-day	3.2E-03
				Benzo(a)pyrene TEQ	6.0E-01	mg/kg	1.1E-08	mg/kg-day	7.3E+00	1/(mg/kg-day)	7.7E-08	--	--	--	--	--
				Dichlorobenzene, 1,4-	2.1E+00	mg/kg	--	--	5.4E-03	1/(mg/kg-day)	--	--	--	7.0E-02	mg/kg-day	--
				Hexachlorobenzene	7.1E-02	mg/kg	9.6E-10	mg/kg-day	1.6E+00	1/(mg/kg-day)	1.5E-09	6.7E-09	mg/kg-day	8.0E-04	mg/kg-day	8.4E-06
				Chlorobenzene	1.3E+01	mg/kg	--	--	--	--	--	--	--	2.0E-02	mg/kg-day	--
				Chloroform	4.4E-01	mg/kg	--	--	3.1E-02	1/(mg/kg-day)	--	--	--	1.0E-02	mg/kg-day	--
			Route Total								2.6E-06					4.6E-02
	Exposure Medium Total										5.9E-06					2.8E-01
Sediment Total											5.9E-06					2.8E-01
										Total of Receptor Risks Across All Media	5.9E-06				Total of Receptor Hazards Across All Media	2.8E-01

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND OVERBURDEN GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs) and P&V in Outdoor Air	Aluminum	--	--	--	--	CNS/Bone	1.2E-02	--	8.4E-04	1.3E-02
			Antimony	--	--	--	--	Blood	3.1E-02	--	--	3.1E-02
			Arsenic	1.2E-05	2.3E-06	1.2E-08	1.4E-05	Cardio/Derm/Develop (inh)/CNS (inh)	7.3E-02	1.4E-02	5.0E-04	8.8E-02
			Barium	--	--	--	--	Kidney	9.7E-03	--	1.3E-03	1.1E-02
			Beryllium	--	--	1.1E-09	1.1E-09	GI/Resp (inhalation)	1.9E-03	--	6.4E-05	1.9E-03
			Cadmium	--	--	8.3E-10	8.3E-10	Kidney	3.7E-03	9.9E-04	1.3E-04	4.9E-03
			Chromium, Hexavalent	5.0E-07	--	2.9E-08	5.3E-07	GI/Blood/Resp (inhalation)	9.3E-04	--	9.7E-06	9.4E-04
			Cobalt	--	--	6.6E-08	6.6E-08	Blood/Resp/Derm	2.0E-01	--	3.4E-03	2.0E-01
			Copper	--	--	--	--	GI/Kidney	4.3E-02	--	--	4.3E-02
			Iron	--	--	--	--	GI	8.8E-02	--	--	8.8E-02
			Lead	--	--	--	--	--	--	--	--	--
			Manganese	--	--	--	--	CNS	3.2E-02	--	5.3E-03	3.7E-02
			Mercury (elemental)	--	--	--	--	CNS	7.5E-01	--	4.2E+00	5.0E+00
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	3.6E+00	--	1.2E-02	3.6E+00
			Nickel	--	--	4.7E-09	4.7E-09	Body Weight	7.3E-03	--	5.6E-04	7.8E-03
			Silver	--	--	--	--	Derm	4.5E-04	--	--	4.5E-04
			Vanadium	--	--	--	--	Blood	7.1E-01	--	1.7E-04	7.1E-01
			Zinc	--	--	--	--	Blood	4.4E-02	--	--	4.4E-02
			Total PCBs	2.8E-06	2.6E-06	2.7E-10	5.3E-06	Immuno	1.9E-01	1.8E-01	--	3.7E-01
			Dioxin 2,3,7,8-TCDD TEQ	5.5E-07	1.1E-07	5.6E-11	6.6E-07	Immuno/Develop/Reprod/Dermal	1.2E-02	2.3E-03	1.0E-07	1.4E-02
			Furan 2,3,7,8-TCDD TEQ	2.0E-05	4.0E-06	2.0E-09	2.4E-05	Immuno/Develop/Reprod/Dermal	4.3E-01	8.6E-02	3.7E-06	5.2E-01
			Benzo(a)pyrene TEQ	1.1E-05	9.1E-06	5.5E-10	2.0E-05	--	--	--	--	--
			Bis(2-ethylhexyl) phthalate	2.0E-08	1.3E-08	1.2E-12	3.3E-08	Liver	2.0E-04	1.3E-04	--	3.3E-04
			Dibenzofuran	--	--	--	--	Kidney	6.5E-04	--	--	6.5E-04
			Dichlorobenzene, 1,4-	2.7E-10	--	1.7E-08	1.7E-08	Liver	2.0E-06	--	5.4E-06	7.4E-06
			Hexachlorobenzene	3.2E-05	2.1E-05	3.2E-09	5.3E-05	Liver	7.0E-02	4.6E-02	--	1.2E-01
			Hexachlorobutadiene	5.4E-08	3.5E-08	5.2E-12	8.9E-08	Kidney	1.9E-03	1.3E-03	--	3.2E-03
			Naphthalene	--	--	7.8E-08	7.8E-08	Body Weight/Resp (inhalation)	4.7E-05	4.0E-05	2.1E-03	2.2E-03
			Benzene	1.0E-08	--	1.3E-07	1.4E-07	Blood/Immuno	1.3E-04	--	1.5E-03	1.7E-03
			Chloroform	3.6E-09	--	3.2E-07	3.2E-07	Liver	3.2E-05	--	4.0E-04	4.3E-04
			Tetrachloroethylene (PCE)	6.6E-09	--	9.7E-09	1.6E-08	Liver	3.4E-06	--	1.7E-05	2.0E-05
			Trichloroethylene (TCE)	5.8E-09	--	2.8E-07	2.9E-07	--	--	--	--	--
			Vinyl Chloride	2.5E-09	--	5.2E-09	7.7E-09	Liver	3.3E-06	--	3.3E-05	3.6E-05
			Chemical Total	7.8E-05	3.9E-05	9.6E-07	1.2E-04		6.3E+00	3.3E-01	4.2E+00	1.1E+01
	Exposure Medium Total						1.2E-04					1.1E+01
Surface Soil Total							1.2E-04					1.1E+01
Groundwater	Overburden Groundwater	Potable Groundwater	Antimony	--	--	--	--	Blood	1.5E-01	--	--	1.5E-01
			Arsenic	1.4E-03	--	--	1.4E-03	Cardio/Derm	9.0E+00	--	--	9.0E+00
			Barium	--	--	--	--	Kidney	6.9E-01	--	--	6.9E-01
			Cadmium	--	--	--	--	Kidney	4.5E-01	--	--	4.5E-01
			Cobalt	--	--	--	--	Blood/Resp/Derm	6.2E+00	--	--	6.2E+00
			Iron	--	--	--	--	GI	4.8E+00	--	--	4.8E+00
			Manganese	--	--	--	--	CNS	8.9E+01	--	--	8.9E+01
			Mercury	--	--	--	--	CNS/Immuno/Kidney	7.6E+00	--	--	7.6E+00
			Methyl Mercury	--	--	--	--	CNS/Develop	1.6E+01	--	--	1.6E+01
			Vanadium	--	--	--	--	Blood	1.9E+01	--	--	1.9E+01
			Zinc	--	--	--	--	Blood	5.5E-02	--	--	5.5E-02
			Cyanide	--	--	--	--	Reprod	3.8E-02	--	--	3.8E-02
			Dioxin 2,3,7,8-TCDD TEQ	8.6E-06	--	--	8.6E-06	Immuno/Develop/Reprod/Dermal	1.9E-01	--	--	1.9E-01
			Furan 2,3,7,8-TCDD TEQ	7.3E-05	--	--	7.3E-05	Immuno/Develop/Reprod/Dermal	1.6E+00	--	--	1.6E+00

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND OVERBURDEN GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Groundwater (continued)	Overburden Groundwater (continued)	Potable Groundwater (continued)	Benz(a)anthracene	2.0E-06	--	--	2.0E-06	--	--	--	--	--
			Naphthalene	--	--	--	--	Body Weight	2.7E-01	--	--	2.7E-01
			Carbazole	1.0E-05	--	--	1.0E-05	--	--	--	--	--
			Chloroaniline, p-	3.1E-03	--	--	3.1E-03	Spleen	1.1E+01	--	--	1.1E+01
			Dibenzofuran	--	--	--	--	Kidney	1.6E-01	--	--	1.6E-01
			Dichlorobenzene, 1,2-	--	--	--	--	Liver	4.6E-01	--	--	4.6E-01
			Dichlorobenzene, 1,3-	--	--	--	--	Liver	2.2E-02	--	--	2.2E-02
			Dichlorobenzene, 1,4-	1.1E-05	--	--	1.1E-05	Liver	8.1E-02	--	--	8.1E-02
			Hexachlorobenzene	5.6E-06	--	--	5.6E-06	Liver	1.2E-02	--	--	1.2E-02
			Nitrobenzene	--	--	--	--	Blood/Reprod/Immuno	2.7E-01	--	--	2.7E-01
			Dichlorophenol, 2,4-	--	--	--	--	Immuno	3.8E-02	--	--	3.8E-02
			Chlorophenol, 2-	--	--	--	--	Reprod	5.1E-02	--	--	5.1E-02
			Pentachlorophenol	2.6E-06	--	--	2.6E-06	Liver/Reprod/Immuno	3.7E-03	--	--	3.7E-03
			Trichlorobenzene, 1,2,4-	2.9E-05	--	--	2.9E-05	Adrenal	2.8E-01	--	--	2.8E-01
			Benzene	1.6E-04	--	--	1.6E-04	Blood/Immuno	2.1E+00	--	--	2.1E+00
			Chlorobenzene	--	--	--	--	Liver	7.9E+00	--	--	7.9E+00
			Chloroform	3.8E-07	--	--	3.8E-07	Liver	3.4E-03	--	--	3.4E-03
			Dichloroethane, 1,1-	5.2E-08	--	--	5.2E-08	Kidney	1.3E-04	--	--	1.3E-04
			Dichloroethane, 1,2-	5.7E-07	--	--	5.7E-07	Kidney	8.8E-04	--	--	8.8E-04
			Ethylbenzene	1.2E-06	--	--	1.2E-06	Kidney/Liver	3.0E-03	--	--	3.0E-03
			Methylene Chloride	5.1E-05	--	--	5.1E-05	Liver	3.2E-01	--	--	3.2E-01
			Tetrachloroethylene (PCE)	1.3E-05	--	--	1.3E-05	Liver	6.8E-03	--	--	6.8E-03
			Vinyl Chloride	1.8E-06	--	--	1.8E-06	Liver	2.3E-03	--	--	2.3E-03
			Xylenes, Mixed	--	--	--	--	Body Weight	6.3E-03	--	--	6.3E-03
			Chemical Total	4.9E-03	--	--	4.9E-03		1.8E+02	--	--	1.8E+02
	Exposure Medium Total						4.9E-03					1.8E+02
Groundwater Total							4.9E-03					1.8E+02
Receptor Total							5.1E-03					1.9E+02

Total Risk Across All Media (Soil and GW) 5.1E-03

Total Hazard Across All Media (Soil and GW) 1.9E+02

Notes:
Shading cancer risk > 1E-6 or hazard > 1

Total Adrenal HI Across All Media	2.8E-01
Total Blood HI Across All Media	2.9E+01
Total Body Weight HI Across All Media	2.9E-01
Total Bone HI Across All Media	1.3E-02
Total Cardiovascular HI Across All Media	9.1E+00
Total Central Nervous System (CNS) HI Across All Media	1.2E+02
Total Dermal HI Across All Media	1.8E+01
Total Developmental HI Across All Media	1.9E+01
Total Gastrointestinal HI Across All Media	5.0E+00
Total Immunological HI Across All Media	1.6E+01
Total Kidney HI Across All Media	1.3E+01
Total Liver HI Across All Media	9.0E+00
Total Reproductive HI Across All Media	2.7E+00
Total Respiratory HI Across All Media	6.4E+00
Total Spleen HI Across All Media	1.1E+01

TABLE 9.1.CTE
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND OVERBURDEN GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs) and P&V in Outdoor Air	Aluminum	--	--	--	--	CNS/Bone	5.5E-03	--	7.6E-04	6.2E-03
			Antimony	--	--	--	--	Blood	1.4E-02	--	--	1.4E-02
			Arsenic	1.9E-06	7.5E-07	3.7E-09	2.6E-06	Cardio/Derm/Develop (inh)/CNS (inh)	3.3E-02	1.3E-02	4.5E-04	4.6E-02
			Barium	--	--	--	--	Kidney	4.4E-03	--	1.2E-03	5.6E-03
			Beryllium	--	--	3.6E-10	3.6E-10	GI/Resp (inhalation)	8.4E-04	--	5.8E-05	8.9E-04
			Cadmium	--	--	2.7E-10	2.7E-10	Kidney	1.7E-03	8.9E-04	1.2E-04	2.7E-03
			Chromium, Hexavalent	8.1E-08	--	9.4E-09	9.0E-08	GI/Blood/Resp (inhalation)	4.2E-04	--	8.7E-06	4.3E-04
			Cobalt	--	--	2.1E-08	2.1E-08	Blood/Resp/Derm	8.9E-02	--	3.1E-03	9.3E-02
			Copper	--	--	--	--	GI/Kidney	1.9E-02	--	--	1.9E-02
			Iron	--	--	--	--	GI	4.0E-02	--	--	4.0E-02
			Lead	--	--	--	--	--	--	--	--	--
			Manganese	--	--	--	--	CNS	1.4E-02	--	4.7E-03	1.9E-02
			Mercury (elemental)	--	--	--	--	CNS	3.4E-01	--	3.8E+00	4.1E+00
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	1.6E+00	--	1.1E-02	1.6E+00
			Nickel	--	--	1.5E-09	1.5E-09	Body Weight	3.3E-03	--	5.0E-04	3.8E-03
			Silver	--	--	--	--	Derm	2.0E-04	--	--	2.0E-04
			Vanadium	--	--	--	--	Blood	3.2E-01	--	1.5E-04	3.2E-01
			Zinc	--	--	--	--	Blood	2.0E-02	--	--	2.0E-02
			Total PCBs	4.5E-07	8.3E-07	8.8E-11	1.3E-06	Immuno	8.7E-02	1.6E-01	--	2.5E-01
			Dioxin 2,3,7,8-TCDD TEQ	8.9E-08	3.5E-08	1.8E-11	1.2E-07	Immuno/Develop/Reprod/Dermal	5.3E-03	2.1E-03	9.2E-08	7.4E-03
			Furan 2,3,7,8-TCDD TEQ	3.3E-06	1.3E-06	6.6E-10	4.6E-06	Immuno/Develop/Reprod/Dermal	2.0E-01	7.7E-02	3.4E-06	2.7E-01
			Benzo(a)pyrene TEQ	1.7E-06	2.9E-06	1.8E-10	4.7E-06	--	--	--	--	--
			Bis(2-ethylhexyl) phthalate	3.2E-09	4.3E-09	3.8E-13	7.5E-09	Liver	9.0E-05	1.2E-04	--	2.1E-04
			Dibenzofuran	--	--	--	--	Kidney	2.9E-04	--	--	2.9E-04
			Dichlorobenzene, 1,4-	4.4E-11	--	5.5E-09	5.5E-09	Liver	9.1E-07	--	4.8E-06	5.7E-06
			Hexachlorobenzene	5.2E-06	6.8E-06	1.0E-09	1.2E-05	Liver	3.1E-02	4.2E-02	--	7.3E-02
			Hexachlorobutadiene	8.7E-09	1.1E-08	1.7E-12	2.0E-08	Kidney	8.7E-04	1.1E-03	--	2.0E-03
			Naphthalene	--	--	2.5E-08	2.5E-08	Body Weight/Resp (inhalation)	2.1E-05	3.6E-05	1.9E-03	2.0E-03
			Benzene	1.6E-09	--	4.1E-08	4.3E-08	Blood/Immuno	5.7E-05	--	1.4E-03	1.4E-03
			Chloroform	5.8E-10	--	1.0E-07	1.0E-07	Liver	1.4E-05	--	3.6E-04	3.7E-04
			Tetrachloroethylene (PCE)	1.1E-09	--	3.1E-09	4.2E-09	Liver	1.5E-06	--	1.5E-05	1.7E-05
			Trichloroethylene (TCE)	9.4E-10	--	9.2E-08	9.3E-08	--	--	--	--	--
			Vinyl Chloride	4.1E-10	--	1.7E-09	2.1E-09	Liver	1.5E-06	--	3.0E-05	3.1E-05
			Chemical Total	1.3E-05	1.3E-05	3.1E-07	2.6E-05		2.8E+00	3.0E-01	3.8E+00	7.0E+00
	Exposure Medium Total						2.6E-05					7.0E+00
Surface Soil Total							2.6E-05					7.0E+00
Groundwater	Overburden Groundwater	Potable Groundwater	Antimony	--	--	--	--	Blood	1.3E-01	--	--	1.3E-01
			Arsenic	4.7E-04	--	--	4.7E-04	Cardio/Derm	8.1E+00	--	--	8.1E+00
			Barium	--	--	--	--	Kidney	6.3E-01	--	--	6.3E-01
			Cadmium	--	--	--	--	Kidney	4.0E-01	--	--	4.0E-01
			Cobalt	--	--	--	--	Blood/Resp/Derm	5.6E+00	--	--	5.6E+00
			Iron	--	--	--	--	GI	4.4E+00	--	--	4.4E+00
			Manganese	--	--	--	--	CNS	8.0E+01	--	--	8.0E+01
			Mercury	--	--	--	--	CNS/Immuno/Kidney	6.8E+00	--	--	6.8E+00
			Methyl Mercury	--	--	--	--	CNS/Develop	1.5E+01	--	--	1.5E+01
			Vanadium	--	--	--	--	Blood	1.7E+01	--	--	1.7E+01
			Zinc	--	--	--	--	Blood	5.0E-02	--	--	5.0E-02
			Cyanide	--	--	--	--	Reprod	3.4E-02	--	--	3.4E-02
			Dioxin 2,3,7,8-TCDD TEQ	2.8E-06	--	--	2.8E-06	Immuno/Develop/Reprod/Dermal	1.7E-01	--	--	1.7E-01
			Furan 2,3,7,8-TCDD TEQ	2.4E-05	--	--	2.4E-05	Immuno/Develop/Reprod/Dermal	1.4E+00	--	--	1.4E+00

TABLE 9.1.CTE
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND OVERBURDEN GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Groundwater (continued)	Overburden Groundwater (continued)	Potable Groundwater (continued)	Benz(a)anthracene	6.4E-07	--	--	6.4E-07	--	--	--	--	--
			Naphthalene	--	--	--	--	Body Weight	2.5E-01	--	--	2.5E-01
			Carbazole	3.2E-06	--	--	3.2E-06	--	--	--	--	--
			Chloroaniline, p-	1.0E-03	--	--	1.0E-03	Spleen	9.8E+00	--	--	9.8E+00
			Dibenzofuran	--	--	--	--	Kidney	1.4E-01	--	--	1.4E-01
			Dichlorobenzene, 1,2-	--	--	--	--	Liver	4.1E-01	--	--	4.1E-01
			Dichlorobenzene, 1,3-	--	--	--	--	Liver	1.9E-02	--	--	1.9E-02
			Dichlorobenzene, 1,4-	3.6E-06	--	--	3.6E-06	Liver	7.3E-02	--	--	7.3E-02
			Hexachlorobenzene	1.8E-06	--	--	1.8E-06	Liver	1.1E-02	--	--	1.1E-02
			Nitrobenzene	--	--	--	--	Blood/Reprod/Immuno	2.4E-01	--	--	2.4E-01
			Dichlorophenol, 2,4-	--	--	--	--	Immuno	3.4E-02	--	--	3.4E-02
			Chlorophenol, 2-	--	--	--	--	Reprod	4.6E-02	--	--	4.6E-02
			Pentachlorophenol	8.5E-07	--	--	8.5E-07	Liver/Reprod/Immuno	3.3E-03	--	--	3.3E-03
			Trichlorobenzene, 1,2,4-	9.4E-06	--	--	9.4E-06	Adrenal	2.5E-01	--	--	2.5E-01
			Benzene	5.3E-05	--	--	5.3E-05	Blood/Immuno	1.9E+00	--	--	1.9E+00
			Chlorobenzene	--	--	--	--	Liver	7.1E+00	--	--	7.1E+00
			Chloroform	1.2E-07	--	--	1.2E-07	Liver	3.1E-03	--	--	3.1E-03
			Dichloroethane, 1,1-	1.7E-08	--	--	1.7E-08	Kidney	1.1E-04	--	--	1.1E-04
			Dichloroethane, 1,2-	1.9E-07	--	--	1.9E-07	Kidney	7.9E-04	--	--	7.9E-04
			Ethylbenzene	3.8E-07	--	--	3.8E-07	Kidney/Liver	2.7E-03	--	--	2.7E-03
			Methylene Chloride	1.7E-05	--	--	1.7E-05	Liver	2.9E-01	--	--	2.9E-01
			Tetrachloroethylene (PCE)	4.2E-06	--	--	4.2E-06	Liver	6.1E-03	--	--	6.1E-03
			Vinyl Chloride	5.8E-07	--	--	5.8E-07	Liver	2.1E-03	--	--	2.1E-03
			Xylenes, Mixed	--	--	--	--	Body Weight	5.6E-03	--	--	5.6E-03
			Chemical Total	1.6E-03	--	--	1.6E-03		1.6E+02	--	--	1.6E+02
	Exposure Medium Total						1.6E-03					1.6E+02
Groundwater Total							1.6E-03					1.6E+02
Receptor Total							1.6E-03					1.7E+02

Total Risk Across All Media (Soil and GW) 1.6E-03

Total Hazard Across All Media (Soil and GW) 1.7E+02

Notes:
Shading cancer risk > 1E-6 or hazard > 1

Total Adrenal HI Across All Media	2.5E-01
Total Blood HI Across All Media	2.5E+01
Total Body Weight HI Across All Media	2.6E-01
Total Bone HI Across All Media	6.2E-03
Total Cardiovascular HI Across All Media	8.1E+00
Total Central Nervous System (CNS) HI Across All Media	1.1E+02
Total Dermal HI Across All Media	1.6E+01
Total Developmental HI Across All Media	1.7E+01
Total Gastrointestinal HI Across All Media	4.4E+00
Total Immunological HI Across All Media	1.3E+01
Total Kidney HI Across All Media	9.7E+00
Total Liver HI Across All Media	8.0E+00
Total Reproductive HI Across All Media	2.2E+00
Total Respiratory HI Across All Media	5.7E+00
Total Spleen HI Across All Media	9.8E+00

TABLE 9.2.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
FUTURE SITE-SPECIFIC WORKER - SURFACE SOIL
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Site-Specific Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs) and P&V in Outdoor Air	Aluminum	--	--	--	--	CNS/Bone	4.9E-03	--	3.4E-04	5.2E-03
			Antimony	--	--	--	--	Blood	1.2E-02	--	--	1.2E-02
			Arsenic	4.7E-06	9.3E-07	4.6E-09	5.6E-06	Cardio/Derm/Develop (inh)/CNS (inh)	2.9E-02	5.8E-03	2.0E-04	3.5E-02
			Barium	--	--	--	--	Kidney	3.9E-03	--	5.4E-04	4.4E-03
			Beryllium	--	--	4.4E-10	4.4E-10	GI/Resp (inhalation)	7.4E-04	--	2.6E-05	7.7E-04
			Cadmium	--	--	3.3E-10	3.3E-10	Kidney	1.5E-03	3.9E-04	5.2E-05	1.9E-03
			Chromium, Hexavalent	2.0E-07	--	1.2E-08	2.1E-07	GI/Blood/Resp (inhalation)	3.7E-04	--	3.9E-06	3.8E-04
			Cobalt	--	--	2.6E-08	2.6E-08	Blood/Resp/Derm	8.0E-02	--	1.4E-03	8.1E-02
			Copper	--	--	--	--	GI/Kidney	1.7E-02	--	--	1.7E-02
			Iron	--	--	--	--	GI	3.5E-02	--	--	3.5E-02
			Lead	--	--	--	--	--	--	--	--	--
			Manganese	--	--	--	--	CNS	1.3E-02	--	2.1E-03	1.5E-02
			Mercury (elemental)	--	--	--	--	CNS	3.0E-01	--	1.7E+00	2.0E+00
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	1.4E+00	--	5.0E-03	1.4E+00
			Nickel	--	--	1.9E-09	1.9E-09	Body Weight	2.9E-03	--	2.2E-04	3.1E-03
			Silver	--	--	--	--	Derm	1.8E-04	--	--	1.8E-04
			Vanadium	--	--	--	--	Blood	2.8E-01	--	6.8E-05	2.8E-01
			Zinc	--	--	--	--	Blood	1.7E-02	--	--	1.7E-02
			Total PCBs	1.1E-06	1.0E-06	1.1E-10	2.1E-06	Immuno	7.8E-02	7.2E-02	--	1.5E-01
			Dioxin 2,3,7,8-TCDD TEQ	2.2E-07	4.4E-08	2.2E-11	2.6E-07	Immuno/Develop/Reprod/Dermal	4.7E-03	9.4E-04	4.1E-08	5.7E-03
			Furan 2,3,7,8-TCDD TEQ	8.1E-06	1.6E-06	8.1E-10	9.6E-06	Immuno/Develop/Reprod/Dermal	1.7E-01	3.4E-02	1.5E-06	2.1E-01
			Benzo(a)pyrene TEQ	4.2E-06	3.6E-06	2.2E-10	7.9E-06	--	--	--	--	--
			Bis(2-ethylhexyl) phthalate	8.0E-09	5.3E-09	4.7E-13	1.3E-08	Liver	8.0E-05	5.3E-05	--	1.3E-04
			Dibenzofuran	--	--	--	--	Kidney	2.6E-04	--	--	2.6E-04
			Dichlorobenzene, 1,4-	1.1E-10	--	6.7E-09	6.8E-09	Liver	8.1E-07	--	2.1E-06	2.9E-06
			Hexachlorobenzene	1.3E-05	8.4E-06	1.3E-09	2.1E-05	Liver	2.8E-02	1.8E-02	--	4.6E-02
			Hexachlorobutadiene	2.1E-08	1.4E-08	2.1E-12	3.6E-08	Kidney	7.7E-04	5.1E-04	--	1.3E-03
			Naphthalene	--	--	3.1E-08	3.1E-08	Body Weight/Resp (inhalation)	1.9E-05	1.6E-05	8.5E-04	8.9E-04
			Benzene	4.0E-09	--	5.1E-08	5.5E-08	Blood/Immuno	5.1E-05	--	6.1E-04	6.6E-04
			Chloroform	1.4E-09	--	1.3E-07	1.3E-07	Liver	1.3E-05	--	1.6E-04	1.7E-04
			Tetrachloroethylene (PCE)	2.6E-09	--	3.9E-09	6.5E-09	Liver	1.4E-06	--	6.8E-06	8.2E-06
			Trichloroethylene (TCE)	2.3E-09	--	1.1E-07	1.2E-07	--	--	--	--	--
			Vinyl Chloride	1.0E-09	--	2.1E-09	3.1E-09	Liver	1.3E-06	--	1.3E-05	1.4E-05
			Chemical Total	3.1E-05	1.6E-05	3.8E-07	4.7E-05		2.5E+00	1.3E-01	1.7E+00	4.4E+00
	Exposure Medium Total						4.7E-05					4.4E+00
Surface Soil Total							4.7E-05					4.4E+00
Receptor Total							4.7E-05					4.4E+00

Total Risk Across All Media	4.7E-05
Total Hazard Across All Media	4.4E+00

Notes:
Shading — cancer risk > 1E-6 or hazard > 1

Total Blood HI Across All Media	3.9E-01
Total Body Weight HI Across All Media	4.0E-03
Total Bone HI Across All Media	5.2E-03
Total Cardiovascular HI Across All Media	3.5E-02
Total Central Nervous System (CNS) HI Across All Media	3.5E+00
Total Dermal HI Across All Media	3.3E-01
Total Developmental HI Across All Media	2.5E-01
Total Gastrointestinal HI Across All Media	5.3E-02
Total Immunological HI Across All Media	1.8E+00
Total Kidney HI Across All Media	1.5E+00
Total Liver HI Across All Media	4.7E-02
Total Respiratory HI Across All Media	8.3E-02

TABLE 9.2.CTE
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
FUTURE SITE-SPECIFIC WORKER - SURFACE SOIL
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Site-Specific Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs) and P&V in Outdoor Air	Aluminum	--	--	--	--	CNS/Bone	1.2E-03	--	1.7E-04	1.4E-03
			Antimony	--	--	--	--	Blood	3.1E-03	--	--	3.1E-03
			Arsenic	4.2E-07	1.7E-07	8.3E-10	5.9E-07	Cardio/Derm/Develop (inh)/CNS (inh)	7.3E-03	2.9E-03	1.0E-04	1.0E-02
			Barium	--	--	--	--	Kidney	9.7E-04	--	2.7E-04	1.2E-03
			Beryllium	--	--	7.9E-11	7.9E-11	GI/Resp (inhalation)	1.9E-04	--	1.3E-05	2.0E-04
			Cadmium	--	--	6.0E-11	6.0E-11	Kidney	3.7E-04	2.0E-04	2.6E-05	6.0E-04
			Chromium, Hexavalent	1.8E-08	--	2.1E-09	2.0E-08	GI/Blood/Resp (inhalation)	9.3E-05	--	1.9E-06	9.5E-05
			Cobalt	--	--	4.8E-09	4.8E-09	Blood/Resp/Derm	2.0E-02	--	6.9E-04	2.1E-02
			Copper	--	--	--	--	GI/Kidney	4.3E-03	--	--	4.3E-03
			Iron	--	--	--	--	GI	8.8E-03	--	--	8.8E-03
			Lead	--	--	--	--	--	--	--	--	--
			Manganese	--	--	--	--	CNS	3.2E-03	--	1.1E-03	4.2E-03
			Mercury (elemental)	--	--	--	--	CNS	7.5E-02	--	8.4E-01	9.2E-01
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	3.6E-01	--	2.5E-03	3.6E-01
			Nickel	--	--	3.4E-10	3.4E-10	Body Weight	7.3E-04	--	1.1E-04	8.4E-04
			Silver	--	--	--	--	Derm	4.5E-05	--	--	4.5E-05
			Vanadium	--	--	--	--	Blood	7.1E-02	--	3.4E-05	7.1E-02
			Zinc	--	--	--	--	Blood	4.4E-03	--	--	4.4E-03
			Total PCBs	1.0E-07	1.8E-07	2.0E-11	2.8E-07	Immuno	1.9E-02	3.6E-02	--	5.5E-02
			Dioxin 2,3,7,8-TCDD TEQ	2.0E-08	7.8E-09	4.0E-12	2.8E-08	Immuno/Develop/Reprod/Dermal	1.2E-03	4.7E-04	2.0E-08	1.7E-03
			Furan 2,3,7,8-TCDD TEQ	7.2E-07	2.9E-07	1.5E-10	1.0E-06	Immuno/Develop/Reprod/Dermal	4.3E-02	1.7E-02	7.5E-07	6.1E-02
			Benzo(a)pyrene TEQ	3.8E-07	6.5E-07	4.0E-11	1.0E-06	--	--	--	--	--
			Bis(2-ethylhexyl) phthalate	7.2E-10	9.5E-10	8.5E-14	1.7E-09	Liver	2.0E-05	2.6E-05	--	4.6E-05
			Dibenzofuran	--	--	--	--	Kidney	6.5E-05	--	--	6.5E-05
			Dichlorobenzene, 1,4-	9.8E-12	--	1.2E-09	1.2E-09	Liver	2.0E-07	--	1.1E-06	1.3E-06
			Hexachlorobenzene	1.2E-06	1.5E-06	2.3E-10	2.7E-06	Liver	7.0E-03	9.2E-03	--	1.6E-02
			Hexachlorobutadiene	1.9E-09	2.5E-09	3.8E-13	4.5E-09	Kidney	1.9E-04	2.5E-04	--	4.5E-04
			Naphthalene	--	--	5.6E-09	5.6E-09	Body Weight/Resp (inhalation)	4.7E-06	8.0E-06	4.3E-04	4.4E-04
			Benzene	3.6E-10	--	9.2E-09	9.5E-09	Blood/Immuno	1.3E-05	--	3.0E-04	3.2E-04
			Chloroform	1.3E-10	--	2.3E-08	2.3E-08	Liver	3.2E-06	--	7.9E-05	8.3E-05
			Tetrachloroethylene (PCE)	2.4E-10	--	7.0E-10	9.4E-10	Liver	3.4E-07	--	3.4E-06	3.8E-06
			Trichloroethylene (TCE)	2.1E-10	--	2.0E-08	2.1E-08	--	--	--	--	--
			Vinyl Chloride	9.1E-11	--	3.7E-10	4.6E-10	Liver	3.3E-07	--	6.6E-06	6.9E-06
			Chemical Total	2.8E-06	2.8E-06	6.9E-08	5.7E-06		6.3E-01	6.6E-02	8.5E-01	1.5E+00
	Exposure Medium Total						5.7E-06					1.5E+00
Surface Soil Total							5.7E-06					1.5E+00
Receptor Total							5.7E-06					1.5E+00

Total Risk Across All Media	5.7E-06
Total Hazard Across All Media	1.5E+00

Notes:
Shading: cancer risk > 1E-6 or hazard > 1

Total Blood HI Across All Media	9.9E-02
Total Body Weight HI Across All Media	1.3E-03
Total Bone HI Across All Media	1.4E-03
Total Cardiovascular HI Across All Media	1.0E-02
Total Central Nervous System (CNS) HI Across All Media	1.3E+00
Total Dermal HI Across All Media	9.3E-02
Total Developmental HI Across All Media	7.2E-02
Total Gastrointestinal HI Across All Media	1.3E-02
Total Immunological HI Across All Media	4.8E-01
Total Kidney HI Across All Media	3.7E-01
Total Liver HI Across All Media	1.6E-02
Total Respiratory HI Across All Media	2.1E-02

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Mixed Soil (0 to 10 ft bgs)	Mixed Soil (0 to 10 ft bgs)	Surface Soil (0 to 10 ft bgs) and P&V in Outdoor Air	Aluminum	--	--	--	--	CNS/Bone	2.0E-02	--	4.2E-04	2.1E-02
			Antimony	--	--	--	--	Blood	7.3E-02	--	--	7.3E-02
			Arsenic	1.5E-06	1.3E-07	4.4E-10	1.6E-06	Cardio/Derm/Develop (inh)/CNS (inh)	2.3E-01	2.1E-02	4.8E-04	2.5E-01
			Barium	--	--	--	--	Kidney	1.5E-02	--	6.3E-04	1.6E-02
			Beryllium	--	--	2.0E-11	2.0E-11	GI/Resp (inhalation)	2.8E-03	--	2.9E-05	2.8E-03
			Cadmium	--	--	2.1E-11	2.1E-11	Kidney	7.8E-03	9.4E-04	8.2E-05	8.8E-03
			Chromium, Hexavalent	2.9E-08	--	5.1E-10	2.9E-08	GI/Blood/Resp (inhalation)	1.4E-03	--	4.2E-06	1.4E-03
			Cobalt	--	--	1.3E-09	1.3E-09	Blood/Resp/Derm	3.1E-01	--	1.6E-03	3.1E-01
			Copper	--	--	--	--	GI/Kidney	6.7E-02	--	--	6.7E-02
			Iron	--	--	--	--	GI	1.4E-01	--	--	1.4E-01
			Lead	--	--	--	--	--	--	--	--	--
			Manganese	--	--	--	--	CNS	5.0E-02	--	2.5E-03	5.3E-02
			Mercury (elemental)	--	--	--	--	CNS	1.2E+00	--	2.0E+00	3.2E+00
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	5.7E+00	--	6.0E-03	5.7E+00
			Nickel	--	--	6.6E-11	6.6E-11	Body Weight	8.5E-03	--	2.0E-04	8.7E-03
			Silver	--	--	--	--	Derm	7.0E-04	--	--	7.0E-04
			Vanadium	--	--	--	--	Blood	1.1E+00	--	7.9E-05	1.1E+00
			Zinc	--	--	--	--	Blood	6.2E-02	--	--	6.2E-02
			Total PCBs	1.7E-07	7.0E-08	4.9E-12	2.4E-07	Immuno	2.9E-01	1.2E-01	--	4.1E-01
			Dioxin 2,3,7,8-TCDD TEQ	3.6E-08	3.2E-09	1.1E-12	3.9E-08	Immuno/Develop/Reprod/Dermal	1.9E-02	1.7E-03	5.0E-08	2.1E-02
			Furan 2,3,7,8-TCDD TEQ	2.3E-06	2.0E-07	6.9E-11	2.5E-06	Immuno/Develop/Reprod/Dermal	1.2E+00	1.1E-01	3.2E-06	1.3E+00
			Benzo(a)pyrene TEQ	4.1E-07	1.6E-07	6.5E-12	5.7E-07	--	--	--	--	--
			Methylnaphthalene, 2-	--	--	--	--	Cardio	1.0E-03	--	--	1.0E-03
			Chloroaniline, p-	6.2E-10	1.9E-10	--	8.0E-10	Spleen	5.4E-05	1.6E-05	--	7.0E-05
			Naphthalene	--	--	7.9E-09	7.9E-09	Body Weight/Resp (inhalation)	3.9E-04	1.5E-04	5.4E-03	6.0E-03
			Phenanthrene	--	--	--	--	Kidney	4.1E-04	1.6E-04	--	5.7E-04
			Bis(2-ethylhexyl) phthalate	1.3E-09	3.8E-10	2.3E-14	1.6E-09	Liver	3.2E-04	9.5E-05	--	4.1E-04
			Dibenzofuran	--	--	--	--	Kidney	3.8E-03	--	--	3.8E-03
			Dichlorobenzene, 1,2-	--	--	--	--	Liver	1.9E-04	--	6.9E-04	8.7E-04
			Dichlorobenzene, 1,4-	2.8E-10	--	5.2E-09	5.5E-09	Liver	5.1E-05	--	4.1E-05	9.2E-05
			Hexachlorobenzene	1.1E-06	3.4E-07	3.4E-11	1.5E-06	Liver	6.2E-02	1.9E-02	--	8.0E-02
			Hexachlorobutadiene	9.2E-09	2.8E-09	2.7E-13	1.2E-08	Kidney	8.3E-03	2.5E-03	--	1.1E-02
			Trichlorobenzene, 1,2,4-	4.0E-08	--	--	4.0E-08	Adrenal	9.8E-03	--	1.6E-01	1.7E-01
			Benzene	3.5E-09	--	1.4E-08	1.7E-08	Blood/Immuno	1.1E-03	--	4.1E-03	5.2E-03
			Chlorobenzene	--	--	--	--	Liver	1.1E-04	--	6.8E-04	8.0E-04
			Chloroform	6.7E-10	--	1.8E-08	1.9E-08	Liver	1.5E-04	--	5.6E-04	7.1E-04
			Ethylbenzene	7.2E-11	--	2.8E-10	3.5E-10	Kidney/Liver/Develop (inhalation)	4.6E-06	--	7.8E-06	1.2E-05
			Methylene Chloride	2.1E-09	--	5.9E-09	8.0E-09	Liver	3.3E-04	--	8.7E-04	1.2E-03
			Tetrachloroethylene (PCE)	2.3E-09	--	1.0E-09	3.3E-09	Liver	2.9E-05	--	4.4E-05	7.4E-05
			Trichloroethylene (TCE)	5.3E-10	--	7.9E-09	8.4E-09	--	--	--	--	--
			Vinyl Chloride	1.5E-10	--	9.5E-11	2.5E-10	Liver	5.0E-06	--	1.5E-05	2.0E-05
			Chemical Total	5.6E-06	9.1E-07	6.2E-08	6.5E-06		1.1E+01	2.8E-01	2.2E+00	1.3E+01
	Exposure Medium Total						6.5E-06					1.3E+01
Surface Soil Total							6.5E-06					1.3E+01
Groundwater	Shallow (Overburden) Groundwater	Shallow (Overburden) Groundwater at the Water Table	Antimony	--	--	--	--	Blood	--	1.3E-02	--	1.3E-02
			Arsenic	--	7.9E-07	--	7.9E-07	Cardio/Derm	--	1.2E-01	--	1.2E-01
			Barium	--	--	--	--	Kidney	--	1.4E-01	--	1.4E-01
			Cadmium	--	--	--	--	Kidney	--	1.2E-01	--	1.2E-01
			Cobalt	--	--	--	--	Blood/Resp/Derm	--	3.4E-02	--	3.4E-02
			Iron	--	--	--	--	GI	--	6.6E-02	--	6.6E-02
			Manganese	--	--	--	--	CNS	--	3.1E+01	--	3.1E+01
			Mercury	--	--	--	--	CNS/Immuno/Kidney	--	1.5E+00	--	1.5E+00
			Methyl Mercury	--	--	--	--	CNS/Develop	--	2.3E-01	--	2.3E-01
			Vanadium	--	--	--	--	Blood	--	1.0E+01	--	1.0E+01
			Zinc	--	--	--	--	Blood	--	4.5E-04	--	4.5E-04
			Cyanide	--	--	--	--	Reprod	--	5.2E-04	--	5.2E-04

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Groundwater (continued)	Shallow (Overburden) Groundwater (continued)	Shallow (Overburden) Groundwater at the Water Table (continued)	Dioxin 2,3,7,8-TCDD TEQ	--	3.8E-06	--	3.8E-06	Immuno/Develop/Reprod/Dermal	--	2.1E+00	--	2.1E+00
			Furan 2,3,7,8-TCDD TEQ	--	2.7E-05	--	2.7E-05	Immuno/Develop/Reprod/Dermal	--	1.4E+01	--	1.4E+01
			Benz(a)anthracene	--	6.0E-07	--	6.0E-07	--	--	--	--	--
			Naphthalene	--	--	--	--	Body Weight	--	1.8E-01	--	1.8E-01
			Carbazole	--	2.9E-07	--	2.9E-07	--	--	--	--	--
			Chloroaniline, p-	--	8.5E-06	--	8.5E-06	Spleen	--	7.4E-01	--	7.4E-01
			Dibenzofuran	--	--	--	--	Kidney	--	2.1E-01	--	2.1E-01
			Dichlorobenzene, 1,2-	--	--	--	--	Liver	--	2.8E-01	--	2.8E-01
			Dichlorobenzene, 1,3-	--	--	--	--	Liver	--	1.5E-02	--	1.5E-02
			Dichlorobenzene, 1,4-	--	2.7E-07	--	2.7E-07	Liver	--	5.1E-02	--	5.1E-02
			Hexachlorobenzene	--	7.8E-07	--	7.8E-07	Liver	--	4.3E-02	--	4.3E-02
			Nitrobenzene	--	--	--	--	Blood/Reprod/Immuno	--	2.0E-02	--	2.0E-02
			Dichlorophenol, 2,4-	--	--	--	--	Immuno	--	1.1E-02	--	1.1E-02
			Chlorophenol, 2-	--	--	--	--	Reprod	--	5.6E-03	--	5.6E-03
			Pentachlorophenol	--	1.8E-07	--	1.8E-07	Liver/Reprod/Immuno	--	6.4E-03	--	6.4E-03
			Trichlorobenzene, 1,2,4-	--	1.1E-06	--	1.1E-06	Adrenal	--	2.7E-01	--	2.7E-01
			Benzene	--	1.3E-06	--	1.3E-06	Blood/Immuno	--	4.2E-01	--	4.2E-01
			Chlorobenzene	--	--	--	--	Liver	--	3.1E+00	--	3.1E+00
			Chloroform	--	1.4E-09	--	1.4E-09	Liver	--	3.2E-04	--	3.2E-04
			Dichloroethane, 1,1-	--	1.9E-10	--	1.9E-10	Kidney	--	1.2E-05	--	1.2E-05
			Dichloroethane, 1,2-	--	1.3E-09	--	1.3E-09	Kidney	--	5.1E-05	--	5.1E-05
			Ethylbenzene	--	3.2E-08	--	3.2E-08	Kidney/Liver	--	2.0E-03	--	2.0E-03
			Methylene Chloride	--	1.0E-07	--	1.0E-07	Liver	--	1.6E-02	--	1.6E-02
			Tetrachloroethylene (PCE)	--	2.4E-07	--	2.4E-07	Liver	--	3.1E-03	--	3.1E-03
			Vinyl Chloride	--	8.2E-09	--	8.2E-09	Liver	--	2.7E-04	--	2.7E-04
			Xylenes, Mixed	--	--	--	--	Body Weight	--	4.0E-03	--	4.0E-03
			Chemical Total	--	4.5E-05	--	4.5E-05		--	6.5E+01	--	6.5E+01
	Exposure Medium Total						4.5E-05					6.5E+01
Groundwater Total							4.5E-05					6.5E+01
Receptor Total							5.1E-05					7.8E+01

Total Risk Across All Media (Soil and GW)	5.1E-05
Total Hazard Across All Media (Soil and GW)	7.8E+01
Total Adrenal HI Across All Media	4.4E-01
Total Blood HI Across All Media	1.2E+01
Total Body Weight HI Across All Media	1.9E-01
Total Bone HI Across All Media	2.1E-02
Total Cardiovascular HI Across All Media	3.8E-01
Total Central Nervous System (CNS) HI Across All Media	4.2E+01
Total Dermal HI Across All Media	1.8E+01
Total Developmental HI Across All Media	1.8E+01
Total Gastrointestinal HI Across All Media	2.8E-01
Total Immunological HI Across All Media	2.6E+01
Total Kidney HI Across All Media	7.8E+00
Total Liver HI Across All Media	3.6E+00
Total Reproductive HI Across All Media	1.8E+01
Total Respiratory HI Across All Media	3.6E-01
Total Spleen HI Across All Media	7.4E-01

Notes:
Shading cancer risk > 1E-6 or hazard > 1

TABLE 9.3.CTE
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Mixed Soil (0 to 10 ft bgs)	Mixed Soil (0 to 10 ft bgs)	Surface Soil (0 to 10 ft bgs) and P&V in Outdoor Air	Aluminum	--	--	--	--	CNS/Bone	1.0E-02	--	2.1E-04	1.0E-02
			Antimony	--	--	--	--	Blood	3.7E-02	--	--	3.7E-02
			Arsenic	7.4E-07	6.6E-08	2.2E-10	8.1E-07	Cardio/Derm/Develop (inh)/CNS (inh)	1.1E-01	1.0E-02	2.4E-04	1.3E-01
			Barium	--	--	--	--	Kidney	7.5E-03	--	3.2E-04	7.9E-03
			Beryllium	--	--	9.9E-12	9.9E-12	GI/Resp (inhalation)	1.4E-03	--	1.4E-05	1.4E-03
			Cadmium	--	--	1.1E-11	1.1E-11	Kidney	3.9E-03	4.7E-04	4.1E-05	4.4E-03
			Chromium, Hexavalent	1.4E-08	--	2.5E-10	1.5E-08	GI/Blood/Resp (inhalation)	6.8E-04	--	2.1E-06	6.8E-04
			Cobalt	--	--	6.3E-10	6.3E-10	Blood/Resp/Derm	1.6E-01	--	8.1E-04	1.6E-01
			Copper	--	--	--	--	GI/Kidney	3.3E-02	--	--	3.3E-02
			Iron	--	--	--	--	GI	7.1E-02	--	--	7.1E-02
			Lead	--	--	--	--	--	--	--	--	--
			Manganese	--	--	--	--	CNS	2.5E-02	--	1.3E-03	2.6E-02
			Mercury (elemental)	--	--	--	--	CNS	6.0E-01	--	1.0E+00	1.6E+00
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	2.9E+00	--	3.0E-03	2.9E+00
			Nickel	--	--	3.3E-11	3.3E-11	Body Weight	4.3E-03	--	9.9E-05	4.4E-03
			Silver	--	--	--	--	Derm	3.5E-04	--	--	3.5E-04
			Vanadium	--	--	--	--	Blood	5.4E-01	--	3.9E-05	5.4E-01
			Zinc	--	--	--	--	Blood	3.1E-02	--	--	3.1E-02
			Total PCBs	8.3E-08	3.5E-08	2.5E-12	1.2E-07	Immuno	1.4E-01	6.1E-02	--	2.1E-01
			Dioxin 2,3,7,8-TCDD TEQ	1.8E-08	1.6E-09	5.5E-13	1.9E-08	Immuno/Develop/Reprod/Dermal	9.6E-03	8.7E-04	2.5E-08	1.0E-02
			Furan 2,3,7,8-TCDD TEQ	1.1E-06	1.0E-07	3.4E-11	1.2E-06	Immuno/Develop/Reprod/Dermal	6.1E-01	5.5E-02	1.6E-06	6.6E-01
			Benzo(a)pyrene TEQ	2.1E-07	8.0E-08	3.2E-12	2.9E-07	--	--	--	--	--
			Methylnaphthalene, 2-	--	--	--	--	Cardio	5.2E-04	--	--	5.2E-04
			Chloroaniline, p-	3.1E-10	9.3E-11	--	4.0E-10	Spleen	2.7E-05	8.1E-06	--	3.5E-05
			Naphthalene	--	--	3.9E-09	3.9E-09	Body Weight/Resp (inhalation)	2.0E-04	7.6E-05	2.7E-03	3.0E-03
			Phenanthrene	--	--	--	--	Kidney	2.1E-04	8.0E-05	--	2.8E-04
			Bis(2-ethylhexyl) phthalate	6.3E-10	1.9E-10	1.1E-14	8.2E-10	Liver	1.6E-04	4.8E-05	--	2.1E-04
			Dibenzofuran	--	--	--	--	Kidney	1.9E-03	--	--	1.9E-03
			Dichlorobenzene, 1,2-	--	--	--	--	Liver	9.3E-05	--	3.4E-04	4.4E-04
			Dichlorobenzene, 1,4-	1.4E-10	--	2.6E-09	2.7E-09	Liver	2.6E-05	--	2.1E-05	4.6E-05
			Hexachlorobenzene	5.7E-07	1.7E-07	1.7E-11	7.4E-07	Liver	3.1E-02	9.3E-03	--	4.0E-02
			Hexachlorobutadiene	4.6E-09	1.4E-09	1.4E-13	6.0E-09	Kidney	4.1E-03	1.2E-03	--	5.4E-03
			Trichlorobenzene, 1,2,4-	2.0E-08	--	--	2.0E-08	Adrenal	4.9E-03	--	7.9E-02	8.3E-02
			Benzene	1.8E-09	--	6.8E-09	8.5E-09	Blood/Immuno	5.6E-04	--	2.0E-03	2.6E-03
			Chlorobenzene	--	--	--	--	Liver	5.7E-05	--	3.4E-04	4.0E-04
			Chloroform	3.3E-10	--	9.0E-09	9.4E-09	Liver	7.5E-05	--	2.8E-04	3.6E-04
			Ethylbenzene	3.6E-11	--	1.4E-10	1.8E-10	Kidney/Liver/Develop (inhalation)	2.3E-06	--	3.9E-06	6.2E-06
			Methylene Chloride	1.1E-09	--	2.9E-09	4.0E-09	Liver	1.7E-04	--	4.4E-04	6.0E-04
			Tetrachloroethylene (PCE)	1.1E-09	--	5.1E-10	1.6E-09	Liver	1.5E-05	--	2.2E-05	3.7E-05
			Trichloroethylene (TCE)	2.7E-10	--	3.9E-09	4.2E-09	--	--	--	--	--
			Vinyl Chloride	7.7E-11	--	4.7E-11	1.2E-10	Liver	2.5E-06	--	7.5E-06	1.0E-05
			Chemical Total	2.8E-06	4.6E-07	3.1E-08	3.3E-06		5.3E+00	1.4E-01	1.1E+00	6.5E+00
	Exposure Medium Total						3.3E-06					6.5E+00
Surface Soil Total							3.3E-06					6.5E+00
Groundwater	Shallow (Overburden) Groundwater	Shallow (Overburden) Groundwater at the Water Table	Antimony	--	--	--	--	Blood	--	6.7E-03	--	6.7E-03
			Arsenic	--	4.0E-07	--	4.0E-07	Cardio/Derm	--	6.2E-02	--	6.2E-02
			Barium	--	--	--	--	Kidney	--	6.8E-02	--	6.8E-02
			Cadmium	--	--	--	--	Kidney	--	6.2E-02	--	6.2E-02
			Cobalt	--	--	--	--	Blood/Resp/Derm	--	1.7E-02	--	1.7E-02
			Iron	--	--	--	--	GI	--	3.3E-02	--	3.3E-02
			Manganese	--	--	--	--	CNS	--	1.5E+01	--	1.5E+01
			Mercury	--	--	--	--	CNS/Immuno/Kidney	--	7.5E-01	--	7.5E-01
			Methyl Mercury	--	--	--	--	CNS/Develop	--	1.1E-01	--	1.1E-01
			Vanadium	--	--	--	--	Blood	--	5.0E+00	--	5.0E+00
			Zinc	--	--	--	--	Blood	--	2.3E-04	--	2.3E-04
			Cyanide	--	--	--	--	Reprod	--	2.6E-04	--	2.6E-04

TABLE 9.3.CTE
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Groundwater (continued)	Shallow (Overburden) Groundwater (continued)	Shallow (Overburden) Groundwater at the Water Table (continued)	Dioxin 2,3,7,8-TCDD TEQ	--	1.9E-06	--	1.9E-06	Immuno/Develop/Reprod/Dermal	--	1.0E+00	--	1.0E+00
			Furan 2,3,7,8-TCDD TEQ	--	1.3E-05	--	1.3E-05	Immuno/Develop/Reprod/Dermal	--	7.1E+00	--	7.1E+00
			Benz(a)anthracene	--	3.0E-07	--	3.0E-07	--	--	--	--	--
			Naphthalene	--	--	--	--	Body Weight	--	8.8E-02	--	8.8E-02
			Carbazole	--	1.5E-07	--	1.5E-07	--	--	--	--	--
			Chloroaniline, p-	--	4.2E-06	--	4.2E-06	Spleen	--	3.7E-01	--	3.7E-01
			Dibenzofuran	--	--	--	--	Kidney	--	1.1E-01	--	1.1E-01
			Dichlorobenzene, 1,2-	--	--	--	--	Liver	--	1.4E-01	--	1.4E-01
			Dichlorobenzene, 1,3-	--	--	--	--	Liver	--	7.7E-03	--	7.7E-03
			Dichlorobenzene, 1,4-	--	1.4E-07	--	1.4E-07	Liver	--	2.5E-02	--	2.5E-02
			Hexachlorobenzene	--	3.9E-07	--	3.9E-07	Liver	--	2.1E-02	--	2.1E-02
			Nitrobenzene	--	--	--	--	Blood/Reprod/Immuno	--	1.0E-02	--	1.0E-02
			Dichlorophenol, 2,4-	--	--	--	--	Immuno	--	5.4E-03	--	5.4E-03
			Chlorophenol, 2-	--	--	--	--	Reprod	--	2.8E-03	--	2.8E-03
			Pentachlorophenol	--	9.1E-08	--	9.1E-08	Liver/Reprod/Immuno	--	3.2E-03	--	3.2E-03
			Trichlorobenzene, 1,2,4-	--	5.6E-07	--	5.6E-07	Adrenal	--	1.3E-01	--	1.3E-01
			Benzene	--	6.7E-07	--	6.7E-07	Blood/Immuno	--	2.1E-01	--	2.1E-01
			Chlorobenzene	--	--	--	--	Liver	--	1.5E+00	--	1.5E+00
			Chloroform	--	7.1E-10	--	7.1E-10	Liver	--	1.6E-04	--	1.6E-04
			Dichloroethane, 1,1-	--	9.6E-11	--	9.6E-11	Kidney	--	5.9E-06	--	5.9E-06
			Dichloroethane, 1,2-	--	6.6E-10	--	6.6E-10	Kidney	--	2.5E-05	--	2.5E-05
			Ethylbenzene	--	1.6E-08	--	1.6E-08	Kidney/Liver	--	1.0E-03	--	1.0E-03
			Methylene Chloride	--	5.0E-08	--	5.0E-08	Liver	--	7.8E-03	--	7.8E-03
			Tetrachloroethylene (PCE)	--	1.2E-07	--	1.2E-07	Liver	--	1.5E-03	--	1.5E-03
			Vinyl Chloride	--	4.1E-09	--	4.1E-09	Liver	--	1.3E-04	--	1.3E-04
			Xylenes, Mixed	--	--	--	--	Body Weight	--	2.0E-03	--	2.0E-03
			Chemical Total	--	2.2E-05	--	2.2E-05		--	3.2E+01	--	3.2E+01
	Exposure Medium Total						2.2E-05					3.2E+01
Groundwater Total							2.2E-05					3.2E+01
Receptor Total							2.6E-05					3.9E+01

Total Risk Across All Media (Soil and GW)	2.6E-05
Total Hazard Across All Media (Soil and GW)	3.9E+01

Notes:
Shading cancer risk > 1E-6 or hazard > 1

Total Adrenal HI Across All Media	2.2E-01
Total Blood HI Across All Media	6.0E+00
Total Body Weight HI Across All Media	9.7E-02
Total Bone HI Across All Media	1.0E-02
Total Cardiovascular HI Across All Media	1.9E-01
Total Central Nervous System (CNS) HI Across All Media	2.1E+01
Total Dermal HI Across All Media	9.2E+00
Total Developmental HI Across All Media	9.1E+00
Total Gastrointestinal HI Across All Media	1.4E-01
Total Immunological HI Across All Media	1.3E+01
Total Kidney HI Across All Media	3.9E+00
Total Liver HI Across All Media	1.8E+00
Total Reproductive HI Across All Media	8.9E+00
Total Respiratory HI Across All Media	1.8E-01
Total Spleen HI Across All Media	3.7E-01

TABLE 9.4.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CURRENT/FUTURE TRESPASSER - SEDIMENT/BANK SOIL
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Current/Future (RME)
Receptor Population: Trespasser
Receptor Age: Adolescent (Ages 7-16)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Aluminum	--	--	--	--	CNS/Bone	2.7E-03	--	--	2.7E-03
			Antimony	--	--	--	--	Blood	2.7E-03	--	--	2.7E-03
			Arsenic	1.7E-05	6.4E-06	--	2.4E-05	Cardio/Derm	2.7E-01	9.9E-02	--	3.7E-01
			Barium	--	--	--	--	Kidney	7.2E-03	--	--	7.2E-03
			Cadmium	--	--	--	--	Kidney	8.8E-03	4.3E-03	--	1.3E-02
			Chromium, Hexavalent	5.7E-08	--	--	5.7E-08	GI/Blood	2.6E-04	--	--	2.6E-04
			Cobalt	--	--	--	--	Blood/Resp/Derm	6.7E-03	--	--	6.7E-03
			Copper	--	--	--	--	GI/Kidney	1.6E-03	--	--	1.6E-03
			Iron	--	--	--	--	GI	1.1E-02	--	--	1.1E-02
			Lead	--	--	--	--	--	--	--	--	--
			Manganese	--	--	--	--	CNS	2.5E-03	--	--	2.5E-03
			Mercury (elemental)	--	--	--	--	CNS	1.3E-01	--	--	1.3E-01
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney	6.2E-01	--	--	6.2E-01
			Vanadium	--	--	--	--	Blood	1.4E-01	--	--	1.4E-01
			Zinc	--	--	--	--	Blood	1.1E-03	--	--	1.1E-03
			Total PCBs	3.0E-08	5.2E-08	--	8.2E-08	Immuno	5.3E-03	9.1E-03	--	1.4E-02
			Dioxin 2,3,7,8-TCDD TEQ	9.8E-08	3.6E-08	--	1.3E-07	Immuno/Develop/Reprod/Dermal	5.3E-03	1.9E-03	--	7.2E-03
			Furan 2,3,7,8-TCDD TEQ	4.2E-07	1.6E-07	--	5.8E-07	Immuno/Develop/Reprod/Dermal	2.3E-02	8.4E-03	--	3.1E-02
			Benzo(a)pyrene TEQ	1.3E-07	2.1E-07	--	3.3E-07	--	--	--	--	--
			Dichlorobenzene, 1,4-	3.2E-10	--	--	3.2E-10	Liver	6.0E-06	--	--	6.0E-06
			Hexachlorobenzene	3.3E-09	4.1E-09	--	7.4E-09	Liver	1.8E-05	2.2E-05	--	4.0E-05
			Chlorobenzene	--	--	--	--	Liver	1.3E-04	--	--	1.3E-04
			Chloroform	4.0E-10	--	--	4.0E-10	Liver	9.0E-06	--	--	9.0E-06
			Chemical Total	1.8E-05	6.8E-06	--	2.5E-05		1.2E+00	1.2E-01	--	1.4E+00
	Exposure Medium Total						2.5E-05					1.4E+00
Surface Soil Total							2.5E-05					1.4E+00
Receptor Total							2.5E-05					1.4E+00

Total Risk Across All Media	2.5E-05
Total Risk Across All Media	1.4E+00

Notes:
Shading cancer risk > 1E-6 or hazard > 1

Total Blood HI Across All Media	1.5E-01
Total Bone HI Across All Media	2.7E-03
Total Cardiovascular HI Across All Media	3.7E-01
Total Central Nervous System (CNS) HI Across All Media	1.3E-01
Total Dermal HI Across All Media	4.1E-01
Total Developmental HI Across All Media	3.9E-02
Total Gastrointestinal HI Across All Media	1.3E-02
Total Immunological HI Across All Media	6.7E-01
Total Kidney HI Across All Media	6.4E-01
Total Liver HI Across All Media	1.9E-04
Total Respiratory HI Across All Media	6.7E-03

TABLE 9.4.CTE
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CURRENT/FUTURE TRESPASSER - SEDIMENT/BANK SOIL
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Current/Future (CTE)
Receptor Population: Trespasser
Receptor Age: Adolescent (Ages 7-16)

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Surficial Sediment/ Bank Soil (0-0.5 ft bgs) in/along SBC	Aluminum	--	--	--	--	CNS/Bone	5.1E-04	--	--	5.1E-04
			Antimony	--	--	--	--	Blood	5.0E-04	--	--	5.0E-04
			Arsenic	3.2E-06	2.4E-06	--	5.6E-06	Cardio/Derm	5.0E-02	3.7E-02	--	8.7E-02
			Barium	--	--	--	--	Kidney	1.4E-03	--	--	1.4E-03
			Cadmium	--	--	--	--	Kidney	1.6E-03	1.6E-03	--	3.3E-03
			Chromium, Hexavalent	1.1E-08	--	--	1.1E-08	GI/Blood	4.9E-05	--	--	4.9E-05
			Cobalt	--	--	--	--	Blood/Resp/Derm	1.3E-03	--	--	1.3E-03
			Copper	--	--	--	--	GI/Kidney	3.0E-04	--	--	3.0E-04
			Iron	--	--	--	--	GI	2.1E-03	--	--	2.1E-03
			Lead	--	--	--	--	--	--	--	--	--
			Manganese	--	--	--	--	CNS	4.6E-04	--	--	4.6E-04
			Mercury (elemental)	--	--	--	--	CNS	2.4E-02	--	--	2.4E-02
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney	1.2E-01	--	--	1.2E-01
			Vanadium	--	--	--	--	Blood	2.7E-02	--	--	2.7E-02
			Zinc	--	--	--	--	Blood	2.0E-04	--	--	2.0E-04
			Total PCBs	5.7E-09	2.0E-08	--	2.5E-08	Immuno	9.9E-04	3.4E-03	--	4.4E-03
			Dioxin 2,3,7,8-TCDD TEQ	1.8E-08	1.4E-08	--	3.2E-08	Immuno/Develop/Reprod/Dermal	9.9E-04	7.3E-04	--	1.7E-03
			Furan 2,3,7,8-TCDD TEQ	8.0E-08	5.9E-08	--	1.4E-07	Immuno/Develop/Reprod/Dermal	4.3E-03	3.2E-03	--	7.4E-03
			Benzo(a)pyrene TEQ	2.4E-08	7.7E-08	--	1.0E-07	--	--	--	--	--
			Dichlorobenzene, 1,4-	6.1E-11	--	--	6.1E-11	Liver	1.1E-06	--	--	1.1E-06
			Hexachlorobenzene	6.2E-10	1.5E-09	--	2.2E-09	Liver	3.4E-06	8.4E-06	--	1.2E-05
			Chlorobenzene	--	--	--	--	Liver	2.5E-05	--	--	2.5E-05
			Chloroform	7.5E-11	--	--	7.5E-11	Liver	1.7E-06	--	--	1.7E-06
			Chemical Total	3.4E-06	2.6E-06	--	5.9E-06		2.3E-01	4.6E-02	--	2.8E-01
	Exposure Medium Total						5.9E-06					2.8E-01
Surface Soil Total							5.9E-06					2.8E-01
Receptor Total							5.9E-06					2.8E-01

Total Risk Across All Media	5.9E-06

Total Risk Across All Media	2.8E-01
Total Blood HI Across All Media	2.9E-02
Total Bone HI Across All Media	5.1E-04
Total Cardiovascular HI Across All Media	8.7E-02
Total Central Nervous System (CNS) HI Across All Media	2.5E-02
Total Dermal HI Across All Media	9.8E-02
Total Developmental HI Across All Media	9.2E-03
Total Gastrointestinal HI Across All Media	2.4E-03
Total Immunological HI Across All Media	1.3E-01
Total Kidney HI Across All Media	1.2E-01
Total Liver HI Across All Media	4.0E-05
Total Respiratory HI Across All Media	1.3E-03

Notes:
Shading cancer risk > 1E-6 or hazard > 1

TABLE 10.1.RME
RISK SUMMARY
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND OVERBURDEN GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Constituent of Potential Concern (1)	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surface Soil	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs) and P&V in Outdoor Air	Arsenic	1.2E-05	2.3E-06	1.2E-08	1.4E-05	Cardio/Derm/Develop (inh)/CNS (inh)	7.3E-02	1.4E-02	5.0E-04	n/a
			Cobalt	--	--	6.6E-08	n/a	Blood/Resp/Derm	2.0E-01	--	3.4E-03	2.0E-01
			Mercury (elemental)	--	--	--	--	CNS	7.5E-01	--	4.2E+00	5.0E+00
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	3.6E+00	--	1.2E-02	3.6E+00
			Vanadium	--	--	--	--	Blood	7.1E-01	--	1.7E-04	7.1E-01
			Total PCBs	2.8E-06	2.6E-06	2.7E-10	5.3E-06	Immuno	1.9E-01	1.8E-01	--	3.7E-01
			Furan 2,3,7,8-TCDD TEQ	2.0E-05	4.0E-06	2.0E-09	2.4E-05	Immuno/Develop/Reprod/Dermal	4.3E-01	8.6E-02	3.7E-06	5.2E-01
			Benzo(a)pyrene TEQ	1.1E-05	9.1E-06	5.5E-10	2.0E-05	--	--	--	--	--
			Hexachlorobenzene	3.2E-05	2.1E-05	3.2E-09	5.3E-05	Liver	7.0E-02	4.6E-02	--	1.2E-01
			Chemical Total	7.7E-05	3.9E-05	1.8E-08	1.2E-04		6.0E+00	3.1E-01	4.2E+00	1.0E+01
	Exposure Medium Total						1.2E-04					1.0E+01
Surface Soil Total							1.2E-04					1.0E+01
Groundwater	Overburden Groundwater	Potable Groundwater	Antimony	--	--	--	--	Blood	1.5E-01	--	--	1.5E-01
			Arsenic	1.4E-03	--	--	1.4E-03	Cardio/Derm	9.0E+00	--	--	9.0E+00
			Barium	--	--	--	--	Kidney	6.9E-01	--	--	6.9E-01
			Cadmium	--	--	--	--	Kidney	4.5E-01	--	--	4.5E-01
			Cobalt	--	--	--	--	Blood/Resp/Derm	6.2E+00	--	--	6.2E+00
			Iron	--	--	--	--	GI	4.8E+00	--	--	4.8E+00
			Manganese	--	--	--	--	CNS	8.9E+01	--	--	8.9E+01
			Mercury	--	--	--	--	CNS/Immuno/Kidney	7.6E+00	--	--	7.6E+00
			Methyl Mercury	--	--	--	--	CNS/Develop	1.6E+01	--	--	1.6E+01
			Vanadium	--	--	--	--	Blood	1.9E+01	--	--	1.9E+01
			Dioxin 2,3,7,8-TCDD TEQ	8.6E-06	--	--	8.6E-06	Immuno/Develop/Reprod/Dermal	1.9E-01	--	--	1.9E-01
			Furan 2,3,7,8-TCDD TEQ	7.3E-05	--	--	7.3E-05	Immuno/Develop/Reprod/Dermal	1.6E+00	--	--	1.6E+00
			Benz(a)anthracene	2.0E-06	--	--	2.0E-06	--	--	--	--	--
			Naphthalene	--	--	--	--	Body Weight	2.7E-01	--	--	2.7E-01
			Carbazole	1.0E-05	--	--	1.0E-05	--	--	--	--	--
			Chloroaniline, p-	3.1E-03	--	--	3.1E-03	Spleen	1.1E+01	--	--	1.1E+01
			Dibenzofuran	--	--	--	--	Kidney	1.6E-01	--	--	1.6E-01
			Dichlorobenzene, 1,2-	--	--	--	--	Liver	4.6E-01	--	--	4.6E-01
			Dichlorobenzene, 1,4-	1.1E-05	--	--	1.1E-05	Liver	8.1E-02	--	--	n/a
			Hexachlorobenzene	5.6E-06	--	--	5.6E-06	Liver	1.2E-02	--	--	n/a
			Nitrobenzene	--	--	--	--	Blood/Reprod/Immuno	2.7E-01	--	--	2.7E-01
			Pentachlorophenol	2.6E-06	--	--	2.6E-06	Liver/Reprod/Immuno	3.7E-03	--	--	n/a
			Benzene	1.6E-04	--	--	1.6E-04	Blood/Immuno	2.1E+00	--	--	2.1E+00
			Chlorobenzene	--	--	--	--	Liver	7.9E+00	--	--	7.9E+00
			Ethylbenzene	1.2E-06	--	--	1.2E-06	Kidney/Liver	3.0E-03	--	--	n/a
			Methylene Chloride	5.1E-05	--	--	5.1E-05	Liver	3.2E-01	--	--	3.2E-01
			Tetrachloroethylene (PCE)	1.3E-05	--	--	1.3E-05	Liver	6.8E-03	--	--	n/a
			Vinyl Chloride	1.8E-06	--	--	1.8E-06	Liver	2.3E-03	--	--	n/a
			Chemical Total	4.9E-03	--	--	4.9E-03		1.8E+02	--	--	1.8E+02
	Exposure Medium Total						4.9E-03					1.8E+02
Groundwater Total							4.9E-03					1.8E+02
Receptor Total							5.0E-03					1.9E+02

Total Risk Across All Media (SS and GW) (2)	5.0E-03
Total Hazard Across All Media (SS and GW) (2)	1.9E+02
Total Adrenal HI Across All Media	--
Total Blood HI Across All Media	2.9E+01
Total Body Weight HI Across All Media	--
Total Bone HI Across All Media	--
Total Cardiovascular HI Across All Media	9.0E+00
Total Central Nervous System (CNS) HI Across All Media	1.2E+02
Total Dermal HI Across All Media	1.8E+01
Total Developmental HI Across All Media	1.9E+01
Total Gastrointestinal HI Across All Media	4.8E+00
Total Immunological HI Across All Media	1.6E+01
Total Kidney HI Across All Media	1.3E+01
Total Liver HI Across All Media	8.8E+00
Total Reproductive HI Across All Media	2.6E+00
Total Respiratory HI Across All Media	6.4E+00
Total Spleen HI Across All Media	1.1E+01

Notes:
(1) This table presents the constituents of potential concern with a cancer risk greater than 1E-6 (one-in-one-million) and/or a noncancer hazard index (HI) greater than 0.1.
(2) The total risks and hazards are based solely on the constituents presented in this table.

RME = reasonable maximum exposure
ft bgs = feet below ground surface
P&V = particulates and vapors
SS = surface soil (0 to 2 ft bgs)
GW = groundwater
HI = hazard index
n/a = health endpoint is not a risk-driver for the COC

TABLE 10.1.CTE
RISK SUMMARY
FUTURE COMMERCIAL/INDUSTRIAL WORKER - SURFACE SOIL AND OVERBURDEN GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Commercial/Industrial Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Constituent of Potential Concern (1)	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surface Soil	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs) and P&V in Outdoor Air	Arsenic	1.9E-06	7.5E-07	3.7E-09	2.6E-06	Cardio/Derm/Develop (inh)/CNS (inh)	3.3E-02	1.3E-02	4.5E-04	n/a
			Mercury (elemental)	--	--	--	--	CNS	3.4E-01	--	3.8E+00	4.1E+00
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	1.6E+00	--	1.1E-02	1.6E+00
			Vanadium	--	--	--	--	Blood	3.2E-01	--	1.5E-04	3.2E-01
			Total PCBs	4.5E-07	8.3E-07	8.8E-11	1.3E-06	Immuno	8.7E-02	1.6E-01	--	2.5E-01
			Furan 2,3,7,8-TCDD TEQ	3.3E-06	1.3E-06	6.6E-10	4.6E-06	Immuno/Develop/Reprod/Dermal	2.0E-01	7.7E-02	3.4E-06	2.7E-01
			Benzo(a)pyrene TEQ	1.7E-06	2.9E-06	1.8E-10	4.7E-06	--	--	--	--	--
			Hexachlorobenzene	5.2E-06	6.8E-06	1.0E-09	1.2E-05	Liver	3.1E-02	4.2E-02	--	n/a
			Chemical Total	1.2E-05	1.3E-05	5.7E-09	2.5E-05		2.6E+00	2.4E-01	3.8E+00	6.6E+00
	Exposure Medium Total						2.5E-05					6.6E+00
Surface Soil Total							2.5E-05					6.6E+00
Groundwater	Overburden Groundwater	Potable Groundwater	Antimony	--	--	--	--	Blood	1.3E-01	--	--	1.3E-01
			Arsenic	4.7E-04	--	--	4.7E-04	Cardio/Derm	8.1E+00	--	--	8.1E+00
			Barium	--	--	--	--	Kidney	6.3E-01	--	--	6.3E-01
			Cadmium	--	--	--	--	Kidney	4.0E-01	--	--	4.0E-01
			Cobalt	--	--	--	--	Blood/Resp/Derm	5.6E+00	--	--	5.6E+00
			Iron	--	--	--	--	GI	4.4E+00	--	--	4.4E+00
			Manganese	--	--	--	--	CNS	8.0E+01	--	--	8.0E+01
			Mercury	--	--	--	--	CNS/Immuno/Kidney	6.8E+00	--	--	6.8E+00
			Methyl Mercury	--	--	--	--	CNS/Develop	1.5E+01	--	--	1.5E+01
			Vanadium	--	--	--	--	Blood	1.7E+01	--	--	1.7E+01
			Dioxin 2,3,7,8-TCDD TEQ	2.8E-06	--	--	2.8E-06	Immuno/Develop/Reprod/Dermal	1.7E-01	--	--	1.7E-01
			Furan 2,3,7,8-TCDD TEQ	2.4E-05	--	--	2.4E-05	Immuno/Develop/Reprod/Dermal	1.4E+00	--	--	1.4E+00
			Naphthalene	--	--	--	--	Body Weight	2.5E-01	--	--	2.5E-01
			Carbazole	3.2E-06	--	--	3.2E-06	--	--	--	--	--
			Chloroaniline, p-	1.0E-03	--	--	1.0E-03	Spleen	9.8E+00	--	--	9.8E+00
			Dibenzofuran	--	--	--	--	Kidney	1.4E-01	--	--	1.4E-01
			Dichlorobenzene, 1,2-	--	--	--	--	Liver	4.1E-01	--	--	4.1E-01
			Dichlorobenzene, 1,4-	3.6E-06	--	--	3.6E-06	Liver	7.3E-02	--	--	n/a
			Hexachlorobenzene	1.8E-06	--	--	1.8E-06	Liver	1.1E-02	--	--	n/a
			Nitrobenzene	--	--	--	--	Blood/Reprod/Immuno	2.4E-01	--	--	2.4E-01
			Benzene	5.3E-05	--	--	5.3E-05	Blood/Immuno	1.9E+00	--	--	1.9E+00
			Chlorobenzene	--	--	--	--	Liver	7.1E+00	--	--	7.1E+00
			Methylene Chloride	1.7E-05	--	--	1.7E-05	Liver	2.9E-01	--	--	2.9E-01
			Tetrachloroethylene (PCE)	4.2E-06	--	--	4.2E-06	Liver	6.1E-03	--	--	n/a
			Chemical Total	1.6E-03	--	--	1.6E-03		1.6E+02	--	--	1.6E+02
	Exposure Medium Total						1.6E-03					1.6E+02
Groundwater Total							1.6E-03					1.6E+02
Receptor Total							1.6E-03					1.7E+02

Total Risk Across All Media (SS and GW) (2)	1.6E-03
Total Hazard Across All Media (SS and GW) (2)	1.7E+02
Total Adrenal HI Across All Media	--
Total Blood HI Across All Media	2.5E+01
Total Body Weight HI Across All Media	--
Total Bone HI Across All Media	--
Total Cardiovascular HI Across All Media	8.1E+00
Total Central Nervous System (CNS) HI Across All Media	1.1E+02
Total Dermal HI Across All Media	1.6E+01
Total Developmental HI Across All Media	1.7E+01
Total Gastrointestinal HI Across All Media	4.4E+00
Total Immunological HI Across All Media	1.3E+01
Total Kidney HI Across All Media	9.6E+00
Total Liver HI Across All Media	7.8E+00
Total Reproductive HI Across All Media	2.1E+00
Total Respiratory HI Across All Media	5.6E+00
Total Spleen HI Across All Media	9.8E+00

Notes:
(1) This table presents the constituents of potential concern with a cancer risk greater than 1E-6 (one-in-one-million) and/or a noncancer hazard index (HI) greater than 0.1.
(2) The total risks and hazards are based solely on the constituents presented in this table.

CTE = central tendency exposure
ft bgs = feet below ground surface
P&V = particulates and vapors
SS = surface soil (0 to 2 ft bgs)
GW = groundwater
HI = hazard index
n/a = health endpoint is not a risk-driver for the COC

TABLE 10.2.RME
RISK SUMMARY
FUTURE SITE-SPECIFIC WORKER - SURFACE SOIL
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Site-Specific Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Constituent of Potential Concern (1)	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surface Soil	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs) and P&V in Outdoor Air	Arsenic	4.7E-06	9.3E-07	4.6E-09	5.6E-06	Cardio/Derm/Develop (inh)/CNS (inh)	2.9E-02	5.8E-03	2.0E-04	n/a
			Mercury (elemental)	--	--	--	--	CNS	3.0E-01	--	1.7E+00	2.0E+00
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	1.4E+00	--	5.0E-03	1.4E+00
			Vanadium	--	--	--	--	Blood	2.8E-01	--	6.8E-05	2.8E-01
			Total PCBs	1.1E-06	1.0E-06	1.1E-10	2.1E-06	Immuno	7.8E-02	7.2E-02	--	1.5E-01
			Furan 2,3,7,8-TCDD TEQ	8.1E-06	1.6E-06	8.1E-10	9.6E-06	Immuno/Develop/Reprod/Dermal	1.7E-01	3.4E-02	1.5E-06	2.1E-01
			Benzo(a)pyrene TEQ	4.2E-06	3.6E-06	2.2E-10	7.9E-06	--	--	--	--	--
			Hexachlorobenzene	1.3E-05	8.4E-06	1.3E-09	2.1E-05	Liver	2.8E-02	1.8E-02	--	n/a
			Chemical Total	3.1E-05	1.6E-05	7.0E-09	4.6E-05		2.3E+00	1.1E-01	1.7E+00	4.1E+00
	Exposure Medium Total						4.6E-05					4.1E+00
Surface Soil Total							4.6E-05					4.1E+00
Receptor Total							4.6E-05					4.1E+00

Total Risk Across All Media (SS) (2) 4.6E-05

Total Hazard Across All Media (SS) (2) 4.1E+00

Total Blood HI Across All Media	--
Total Body Weight HI Across All Media	--
Total Bone HI Across All Media	--
Total Cardiovascular HI Across All Media	--
Total Central Nervous System (CNS) HI Across All Media	3.4E+00
Total Dermal HI Across All Media	--
Total Developmental HI Across All Media	--
Total Gastrointestinal HI Across All Media	--
Total Immunological HI Across All Media	1.8E+00
Total Kidney HI Across All Media	1.4E+00
Total Liver HI Across All Media	--
Total Respiratory HI Across All Media	--

Notes:
(1) This table presents the constituents of potential concern with a cancer risk greater than 1E-6 (one-in-one-million) and/or a noncancer hazard index (HI) greater than 0.1.
(2) The total risks and hazards are based solely on the constituents presented in this table.

RME = reasonable maximum exposure
ft bgs = feet below ground surface
P&V = particulates and vapors
SS = surface soil (0 to 2 ft bgs)
HI = hazard index
n/a = health endpoint is not a risk-driver for the COC

TABLE 10.2.CTE
RISK SUMMARY
FUTURE SITE-SPECIFIC WORKER - SURFACE SOIL
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Site-Specific Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Constituent of Potential Concern (1)	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Surface Soil	Surface Soil (0 to 2 ft bgs)	Surface Soil (0 to 2 ft bgs) and P&V in Outdoor Air	Mercury (elemental)	--	--	--	--	CNS	7.5E-02	--	8.4E-01	9.2E-01
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	3.6E-01	--	2.5E-03	3.6E-01
			Furan 2,3,7,8-TCDD TEQ	7.2E-07	2.9E-07	1.5E-10	1.0E-06	Immuno/Develop/Reprod/Dermal	4.3E-02	1.7E-02	7.5E-07	n/a
			Benzo(a)pyrene TEQ	3.8E-07	6.5E-07	4.0E-11	1.0E-06	--	--	--	--	--
			Hexachlorobenzene	1.2E-06	1.5E-06	2.3E-10	2.7E-06	Liver	7.0E-03	9.2E-03	--	n/a
			Chemical Total	2.3E-06	2.5E-06	4.1E-10	4.7E-06		4.3E-01	0.0E+00	8.5E-01	1.3E+00
	Exposure Medium Total						4.7E-06					1.3E+00
Surface Soil Total							4.7E-06					1.3E+00
Receptor Total							4.7E-06					1.3E+00

Total Risk Across All Media (SS) (2): 4.7E-06

Total Hazard Across All Media (SS) (2): 1.3E+00

Total Blood HI Across All Media	--
Total Body Weight HI Across All Media	--
Total Bone HI Across All Media	--
Total Cardiovascular HI Across All Media	--
Total Central Nervous System (CNS) HI Across All Media	1.3E+00
Total Dermal HI Across All Media	--
Total Developmental HI Across All Media	--
Total Gastrointestinal HI Across All Media	--
Total Immunological HI Across All Media	--
Total Kidney HI Across All Media	--
Total Liver HI Across All Media	--
Total Respiratory HI Across All Media	--

Notes:
(1) This table presents the constituents of potential concern with a cancer risk greater than 1E-6 (one-in-one-million) and/or a noncancer hazard index (HI) greater than 0.1.
(2) The total risks and hazards are based solely on the constituents presented in this table.

CTE = central tendency exposure
ft bgs = feet below ground surface
P&V = particulates and vapors
SS = surface soil (0 to 2 ft bgs)
HI = hazard index
n/a = health endpoint is not a risk-driver for the COC

TABLE 10.3.RME
RISK SUMMARY
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (RME)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Constituent of Potential Concern (1)	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Mixed Soil (0 to 10 ft bgs)	Mixed Soil (0 to 10 ft bgs)	Mixed Soil (0 to 10 ft bgs) and P&V in Outdoor Air	Arsenic	1.5E-06	1.3E-07	4.4E-10	1.6E-06	Cardio/Derm/Develop (inh)/CNS (inh)	2.3E-01	2.1E-02	4.8E-04	2.5E-01
			Cobalt	--	--	1.3E-09	n/a	Blood/Resp/Derm	3.1E-01	--	1.6E-03	3.1E-01
			Iron	--	--	--	--	GI	1.4E-01	--	--	1.4E-01
			Mercury (elemental)	--	--	--	--	CNS	1.2E+00	--	2.0E+00	3.2E+00
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	5.7E+00	--	6.0E-03	5.7E+00
			Vanadium	--	--	--	--	Blood	1.1E+00	--	7.9E-05	1.1E+00
			Total PCBs	1.7E-07	7.0E-08	4.9E-12	n/a	Immuno	2.9E-01	1.2E-01	--	4.1E-01
			Furan 2,3,7,8-TCDD TEQ	2.3E-06	2.0E-07	6.9E-11	2.5E-06	Immuno/Develop/Reprod/Dermal	1.2E+00	1.1E-01	3.2E-06	1.3E+00
			Hexachlorobenzene	1.1E-06	3.4E-07	3.4E-11	1.5E-06	Liver	6.2E-02	1.9E-02	--	n/a
			Trichlorobenzene, 1,2,4-	4.0E-08	--	--	n/a	Adrenal	9.8E-03	--	1.6E-01	1.7E-01
			Chemical Total	4.9E-06	6.8E-07	5.5E-10	5.5E-06		1.0E+01	2.5E-01	2.2E+00	1.3E+01
	Exposure Medium Total						5.5E-06					1.3E+01
Surface Soil Total							5.5E-06					1.3E+01
Groundwater	Shallow (Overburden) Groundwater	Shallow (Overburden) Groundwater at the Water Table	Arsenic	--	7.9E-07	--	n/a	Cardio/Derm	--	1.2E-01	--	1.2E-01
			Barium	--	--	--	--	Kidney	--	1.4E-01	--	1.4E-01
			Cadmium	--	--	--	--	Kidney	--	1.2E-01	--	1.2E-01
			Manganese	--	--	--	--	CNS	--	3.1E+01	--	3.1E+01
			Mercury	--	--	--	--	CNS/Immuno/Kidney	--	1.5E+00	--	1.5E+00
			Methyl Mercury	--	--	--	--	CNS/Develop	--	2.3E-01	--	2.3E-01
			Vanadium	--	--	--	--	Blood	--	1.0E+01	--	1.0E+01
			Dioxin 2,3,7,8-TCDD TEQ	--	3.8E-06	--	3.8E-06	Immuno/Develop/Reprod/Dermal	--	2.1E+00	--	2.1E+00
			Furan 2,3,7,8-TCDD TEQ	--	2.7E-05	--	2.7E-05	Immuno/Develop/Reprod/Dermal	--	1.4E+01	--	1.4E+01
			Naphthalene	--	--	--	--	Body Weight	--	1.8E-01	--	1.8E-01
			Chloroaniline, p-	--	8.5E-06	--	8.5E-06	Spleen	--	7.4E-01	--	7.4E-01
			Dibenzofuran	--	--	--	--	Kidney	--	2.1E-01	--	2.1E-01
			Dichlorobenzene, 1,2-	--	--	--	--	Liver	--	2.8E-01	--	2.8E-01
			Trichlorobenzene, 1,2,4-	--	1.1E-06	--	1.1E-06	Adrenal	--	2.7E-01	--	2.7E-01
			Benzene	--	1.3E-06	--	1.3E-06	Blood/Immuno	--	4.2E-01	--	4.2E-01
			Chlorobenzene	--	--	--	--	Liver	--	3.1E+00	--	3.1E+00
			Chemical Total	--	4.1E-05	--	4.1E-05		--	6.4E+01	--	6.4E+01
	Exposure Medium Total						4.1E-05					6.4E+01
Groundwater Total							4.1E-05					6.4E+01
Receptor Total							4.7E-05					7.7E+01

Total Risk Across All Media (MS and GW) (2)	4.7E-05
Total Hazard Across All Media (MS and GW) (2)	7.7E+01
Total Adrenal HI Across All Media	--
Total Blood HI Across All Media	1.2E+01
Total Body Weight HI Across All Media	--
Total Bone HI Across All Media	--
Total Cardiovascular HI Across All Media	--
Total Central Nervous System (CNS) HI Across All Media	4.2E+01
Total Dermal HI Across All Media	1.8E+01
Total Developmental HI Across All Media	1.8E+01
Total Gastrointestinal HI Across All Media	--
Total Immunological HI Across All Media	2.6E+01
Total Kidney HI Across All Media	7.7E+00
Total Liver HI Across All Media	3.3E+00
Total Reproductive HI Across All Media	1.8E+01
Total Respiratory HI Across All Media	--
Total Spleen HI Across All Media	--

Notes:
(1) This table presents the constituents of potential concern with a cancer risk greater than 1E-6 (one-in-one-million) and/or a noncancer hazard index (HI) greater than 0.1.
(2) The total risks and hazards are based solely on the constituents presented in this table.

RME = reasonable maximum exposure
ft bgs = feet below ground surface
P&V = particulates and vapors
MS = mixed soil (0 to 10 ft bgs)
GW = groundwater
HI = hazard index
n/a = health endpoint is not a risk-driver for the COC

TABLE 10.3.CTE
RISK SUMMARY
FUTURE CONSTRUCTION/UTILITY WORKER - MIXED SOIL AND SHALLOW (OVERBURDEN) GROUNDWATER
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Future (CTE)
Receptor Population: Construction/Utility Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Constituent of Potential Concern (1)	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
Mixed Soil (0 to 10 ft bgs)	Mixed Soil (0 to 10 ft bgs)	Mixed Soil (0 to 10 ft bgs) and P&V in Outdoor Air	Arsenic	7.4E-07	6.6E-08	2.2E-10	n/a	Cardio/Derm/Develop (inh)/CNS (inh)	1.1E-01	1.0E-02	2.4E-04	1.3E-01
			Cobalt	--	--	6.3E-10	n/a	Blood/Resp/Derm	1.6E-01	--	8.1E-04	1.6E-01
			Mercury (elemental)	--	--	--	--	CNS	6.0E-01	--	1.0E+00	1.6E+00
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney/CNS (inh)	2.9E+00	--	3.0E-03	2.9E+00
			Vanadium	--	--	--	--	Blood	5.4E-01	--	3.9E-05	5.4E-01
			Total PCBs	8.3E-08	3.5E-08	2.5E-12	n/a	Immuno	1.4E-01	6.1E-02	--	2.1E-01
			Furan 2,3,7,8-TCDD TEQ	1.1E-06	1.0E-07	3.4E-11	1.2E-06	Immuno/Develop/Reprod/Dermal	6.1E-01	5.5E-02	1.6E-06	6.6E-01
			Chemical Total	1.1E-06	1.0E-07	3.4E-11	1.2E-06		5.0E+00	1.3E-01	1.0E+00	6.2E+00
	Exposure Medium Total						1.2E-06					6.2E+00
Surface Soil Total							1.2E-06					6.2E+00
Groundwater	Shallow (Overburden) Groundwater	Shallow (Overburden) Groundwater at the Water Table	Manganese	--	--	--	--	CNS	--	1.5E+01	--	1.5E+01
			Mercury	--	--	--	--	CNS/Immuno/Kidney	--	7.5E-01	--	7.5E-01
			Methyl Mercury	--	--	--	--	CNS/Develop	--	1.1E-01	--	1.1E-01
			Vanadium	--	--	--	--	Blood	--	5.0E+00	--	5.0E+00
			Dioxin 2,3,7,8-TCDD TEQ	--	1.9E-06	--	1.9E-06	Immuno/Develop/Reprod/Dermal	--	1.0E+00	--	1.0E+00
			Furan 2,3,7,8-TCDD TEQ	--	1.3E-05	--	1.3E-05	Immuno/Develop/Reprod/Dermal	--	7.1E+00	--	7.1E+00
			Chloroaniline, p-	--	4.2E-06	--	4.2E-06	Spleen	--	3.7E-01	--	3.7E-01
			Dibenzofuran	--	--	--	--	Kidney	--	1.1E-01	--	1.1E-01
			Dichlorobenzene, 1,2-	--	--	--	--	Liver	--	1.4E-01	--	1.4E-01
			Trichlorobenzene, 1,2,4-	--	5.6E-07	--	n/a	Adrenal	--	1.3E-01	--	1.3E-01
			Benzene	--	6.7E-07	--	n/a	Blood/Immuno	--	2.1E-01	--	2.1E-01
			Chlorobenzene	--	--	--	--	Liver	--	1.5E+00	--	1.5E+00
			Chemical Total	--	1.9E-05	--	1.9E-05		--	3.2E+01	--	3.2E+01
	Exposure Medium Total						1.9E-05					3.2E+01
Groundwater Total							1.9E-05					3.2E+01
Receptor Total							2.1E-05					3.8E+01

Total Risk Across All Media (MS and GW) (2): 2.1E-05

Total Hazard Across All Media (MS and GW) (2): 3.8E+01

Total Adrenal HI Across All Media	--
Total Blood HI Across All Media	5.9E+00
Total Body Weight HI Across All Media	--
Total Bone HI Across All Media	--
Total Cardiovascular HI Across All Media	--
Total Central Nervous System (CNS) HI Across All Media	2.1E+01
Total Dermal HI Across All Media	9.1E+00
Total Developmental HI Across All Media	9.1E+00
Total Gastrointestinal HI Across All Media	--
Total Immunological HI Across All Media	1.3E+01
Total Kidney HI Across All Media	3.7E+00
Total Liver HI Across All Media	1.7E+00
Total Reproductive HI Across All Media	8.8E+00
Total Respiratory HI Across All Media	--
Total Spleen HI Across All Media	--

Notes:
(1) This table presents the constituents of potential concern with a cancer risk greater than 1E-6 (one-in-one-million) and/or a noncancer hazard index (HI) greater than 0.1.
(2) The total risks and hazards are based solely on the constituents presented in this table.

CTE = central tendency exposure
ft bgs = feet below ground surface
P&V = particulates and vapors
MS = mixed soil (0 to 10 ft bgs)
GW = groundwater
HI = hazard index
n/a = health endpoint is not a risk-driver for the COC

TABLE 10.4.RME
RISK SUMMARY
CURRENT/FUTURE TRESPASSER - SEDIMENT/BANK SOIL
REASONABLE MAXIMUM EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Current/Future (RME)
Receptor Population: Trespasser
Receptor Age: Adolescent (Ages 7-16)

Medium	Exposure Medium	Exposure Point	Constituent of Potential Concern (1)	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
SBC Sediment/ Bank Soil (0 to 0.5 ft bgs)	SBC Sediment/ Bank Soil (0 to 0.5 ft bgs)	SBC Sediment/ Bank Soil (0 to 0.5 ft bgs)	Arsenic	1.7E-05	6.4E-06	--	2.4E-05	Cardio/Derm	2.7E-01	9.9E-02	--	3.7E-01
			Mercury (elemental)	--	--	--	--	CNS	1.3E-01	--	--	1.3E-01
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney	6.2E-01	--	--	6.2E-01
			Vanadium	--	--	--	--	Blood	1.4E-01	--	--	1.4E-01
			Chemical Total	1.7E-05	6.4E-06	--	2.4E-05		1.2E+00	1.0E-01	--	1.3E+00
	Exposure Medium Total						2.4E-05					1.3E+00
Surface Soil Total							2.4E-05					1.3E+00
Receptor Total							2.4E-05					1.3E+00

Total Risk Across All Media (SED) (2) 2.4E-05

Total Hazard Across All Media (SED) (2) 1.3E+00

Total Blood HI Across All Media	--
Total Bone HI Across All Media	--
Total Cardiovascular HI Across All Media	--
Total Central Nervous System (CNS) HI Across All Media	--
Total Dermal HI Across All Media	--
Total Developmental HI Across All Media	--
Total Gastrointestinal HI Across All Media	--
Total Immunological HI Across All Media	--
Total Kidney HI Across All Media	--
Total Liver HI Across All Media	--
Total Respiratory HI Across All Media	--

Notes:
(1) This table presents the constituents of potential concern with a cancer risk greater than 1E-6 (one-in-one-million) and/or a noncancer hazard index (HI) greater than 0.1.
(2) The total risks and hazards are based solely on the constituents presented in this table.

RME = reasonable maximum exposure
ft bgs = feet below ground surface
SBC = South Branch Creek
SED = sediment/bank soil
HI = hazard index
n/a = health endpoint is not a risk-driver for the COC

TABLE 10.4.CTE
RISK SUMMARY
CURRENT/FUTURE TRESPASSER - SEDIMENT/BANK SOIL
CENTRAL TENDENCY EXPOSURE
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Scenario Timeframe: Current/Future (CTE)
Receptor Population: Trespasser
Receptor Age: Adolescent (Ages 7-16)

Medium	Exposure Medium	Exposure Point	Constituent of Potential Concern (1)	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Dermal	Inhalation	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Dermal	Inhalation	Exposure Routes Total
SBC Sediment/ Bank Soil (0 to 0.5 ft bgs)	SBC Sediment/ Bank Soil (0 to 0.5 ft bgs)	SBC Sediment/ Bank Soil (0 to 0.5 ft bgs)	Arsenic	3.2E-06	2.4E-06	--	5.6E-06	Cardio/Derm	5.0E-02	3.7E-02	--	n/a
			Mercury (inorganic)	--	--	--	--	Immuno/Kidney	1.2E-01	--	--	1.2E-01
			Chemical Total	3.2E-06	2.4E-06	--	5.6E-06		2.3E-01	3.9E-02	--	1.2E-01
	Exposure Medium Total						5.6E-06					1.2E-01
Surface Soil Total							5.6E-06					1.2E-01
Receptor Total							5.6E-06					1.2E-01

Total Risk Across All Media (SED) (2) 5.6E-06

Total Hazard Across All Media (SED) (2) 1.2E-01

Total Blood HI Across All Media	--
Total Bone HI Across All Media	--
Total Cardiovascular HI Across All Media	--
Total Central Nervous System (CNS) HI Across All Media	--
Total Dermal HI Across All Media	--
Total Developmental HI Across All Media	--
Total Gastrointestinal HI Across All Media	--
Total Immunological HI Across All Media	--
Total Kidney HI Across All Media	--
Total Liver HI Across All Media	--
Total Respiratory HI Across All Media	--

Notes:
(1) This table presents the constituents of potential concern with a cancer risk greater than 1E-6 (one-in-one-million) and/or a noncancer hazard index (HI) greater than 0.1.
(2) The total risks and hazards are based solely on the constituents presented in this table.

CTE = reasonable maximum exposure
ft bgs = feet below ground surface
SBC = South Branch Creek
SED = sediment/bank soil
HI = hazard index
n/a = health endpoint is not a risk-driver for the COC

FIGURES

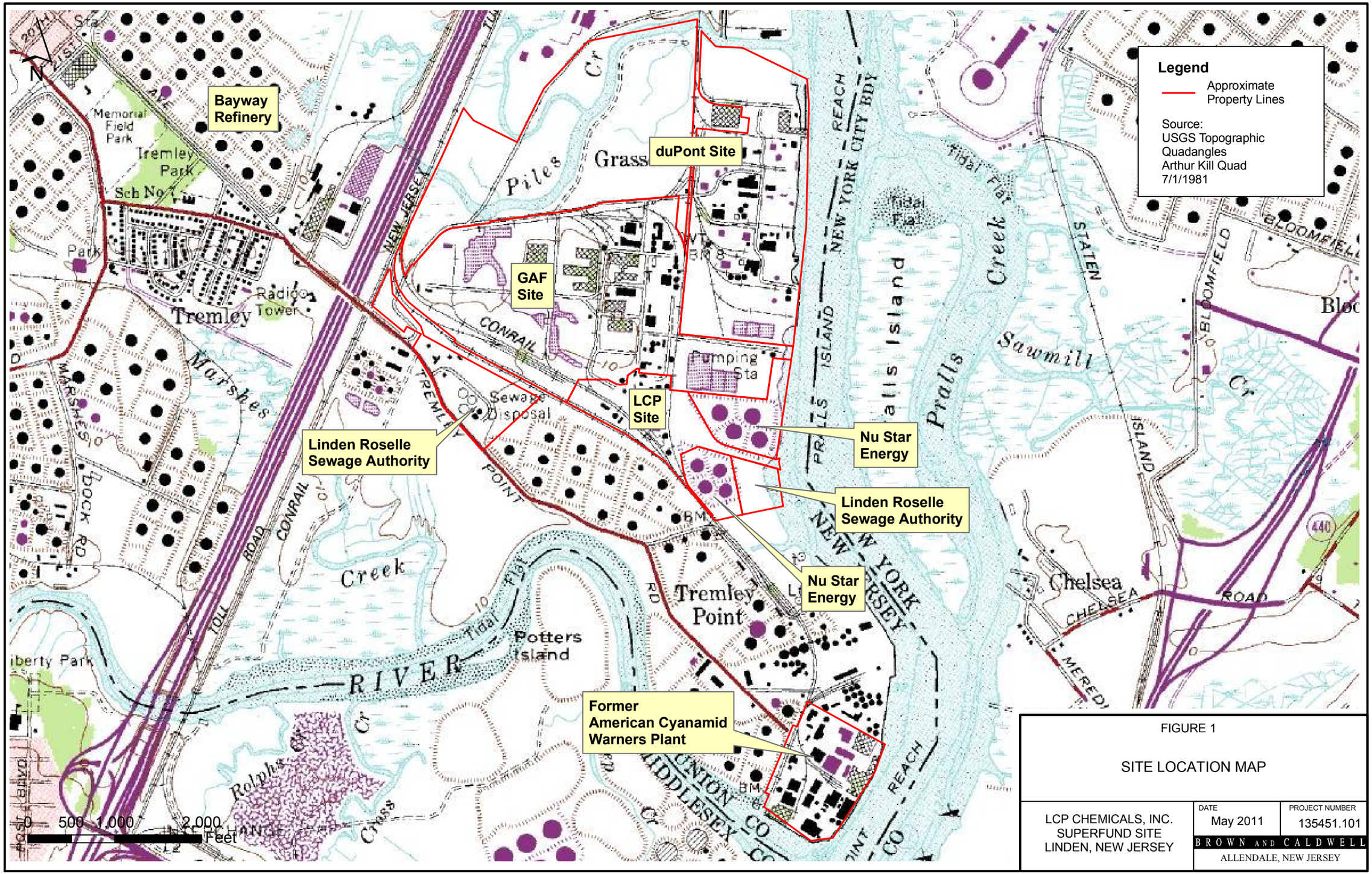


FIGURE 1

SITE LOCATION MAP

LCP CHEMICALS, INC. SUPERFUND SITE LINDEN, NEW JERSEY	DATE May 2011	PROJECT NUMBER 135451.101
	BROWN AND CALDWELL ALLENDALE, NEW JERSEY	

P:GIS/LCP/RIR/LCP_Site_Location.mxd

R2-0006161

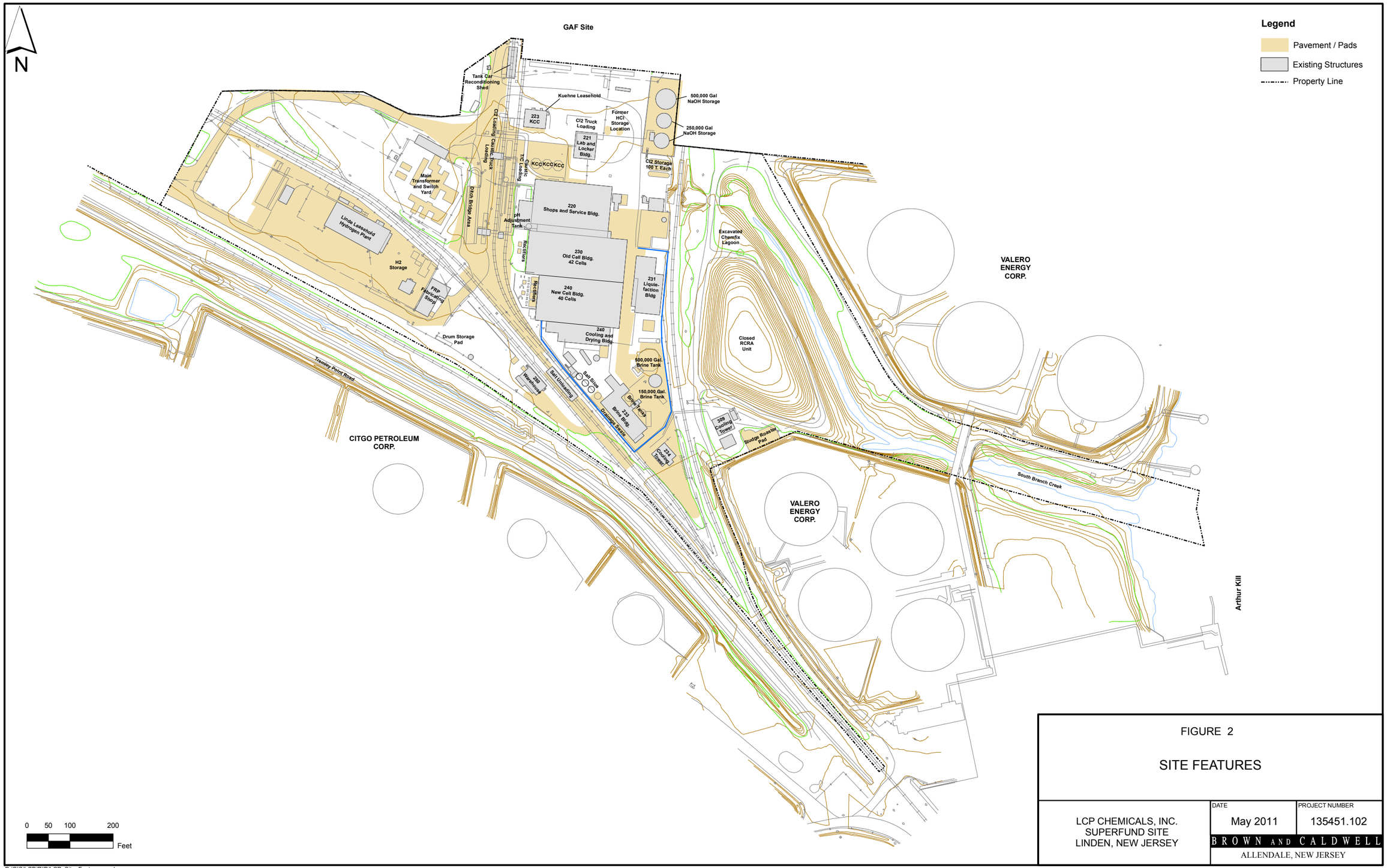


FIGURE 2

SITE FEATURES

LCP CHEMICALS, INC. SUPERFUND SITE LINDEN, NEW JERSEY	DATE May 2011	PROJECT NUMBER 135451.102
	BROWN AND CALDWELL ALLENDALE, NEW JERSEY	

P:/GIS/LCP/RIR/LCP_Site_Features.mxd

R2-0006162

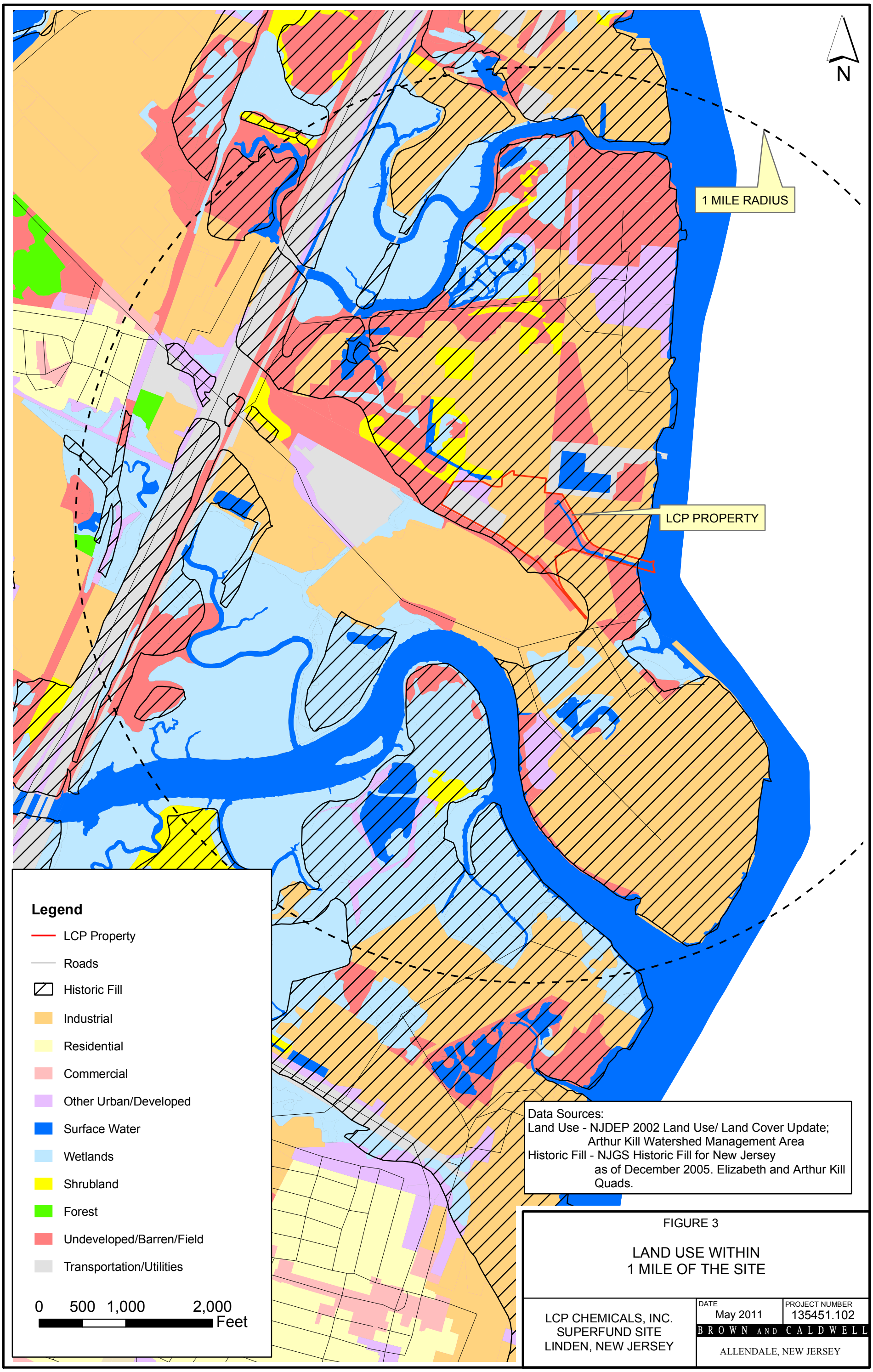


FIGURE 3

LAND USE WITHIN
1 MILE OF THE SITE

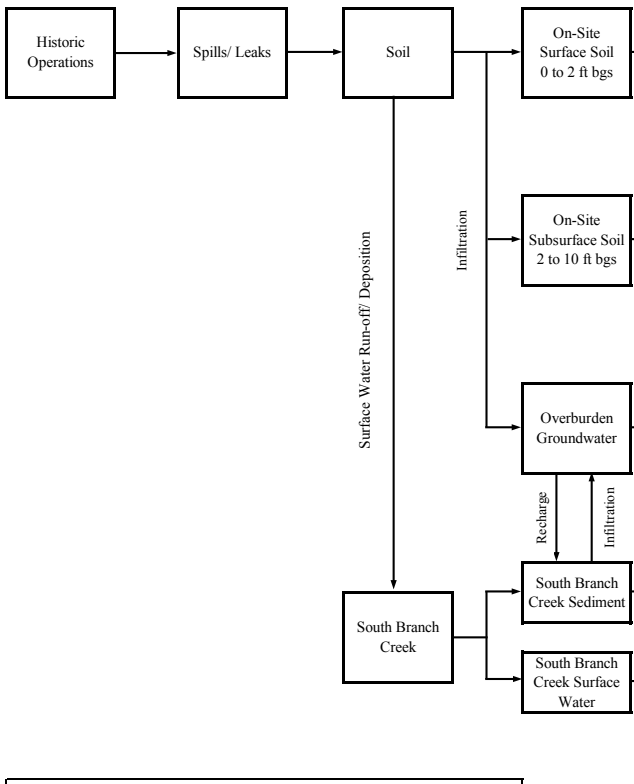
LCP CHEMICALS, INC.
SUPERFUND SITE
LINDEN, NEW JERSEY

DATE	PROJECT NUMBER
May 2011	135451.102

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/LCP_Landuse.mxd



EXPOSURE ROUTE	Potential On-Site Receptors: Current – Adolescent Trespasser	Hypothetical Future – Adolescent Trespasser	Hypothetical Future – Default Commercial/ Industrial Worker	Hypothetical Future – Site-Specific Commercial/ Industrial Worker (2)	Hypothetical Future – Construction/ Utility Worker
Ingestion (Surface Soil 0 to 2 ft bgs)	–	○(3)	●	●	●(4)
Dermal Contact (Surface Soil 0 to 2 ft bgs)	–	○(3)	●	●	●(4)
Inhalation (Air; Fugitive Dust Generation)	–	○(3)	●	●	●(4)
Inhalation (Air; Volatilization)	–	○(3)	●	●	●(4)
Ingestion (Subsurface Soil 2 to 10 ft bgs)	–	–	–	–	●(4)
Dermal Contact (Subsurface Soil 2 to 10 ft bgs)	–	–	–	–	●(4)
Inhalation (Air; Fugitive Dust Generation)	–	–	–	–	●(4)
Inhalation (Air; Volatilization)	–	–	–	–	●(4)
Ingestion (Overburden Groundwater)	–	–	●(5)	–	○(6)
Dermal Contact (Overburden Groundwater)	–	–	–	–	●(6)
Inhalation (Air; Volatilization)	–	–	●(7)	–	○(6)
Ingestion (Sediment)	●	●	–	–	–
Dermal Contact (Sediment)	●	●	–	–	–
Ingestion (Surface Water)	○(8)	○(8)	–	–	–
Dermal Contact (Surface Water)	○(8)	○(8)	–	–	–
Inhalation (Air; Volatilization)	–	–	–	–	–

Legend

→	=	Potentially Complete Exposure Pathways
●	=	Pathways for quantitative evaluation (1)
○	=	Pathways for qualitative/screening level evaluation
–	=	Incomplete pathways

Notes:

(1) Areas of elemental mercury contamination could not be quantitatively evaluated. For the purposes of this baseline risk assessment, areas with visible elemental mercury were assumed to present an unacceptable risk for potential direct contact and vapor intrusion pathways.

(2) In addition to a full-time commercial/industrial worker, a reduced-frequency commercial/industrial ("site-specific") worker was also evaluated. Although this scenario is hypothetical, and it is acknowledged that such future land use could require institutional controls, the evaluation of this receptor supports remedial decision-making and risk management processes.

(3) It is acknowledged that current barriers to access (i.e., fencing) may not be present under future land use conditions thereby increasing the likelihood for trespassing. However, remedial actions protective of workers, who are potentially exposed more frequently and over a longer duration, will also be protective of trespassers. Therefore, trespasser exposure to upland soil is evaluated qualitatively.

(4) Future construction/utility worker exposure to surface soil (0 to 2 ft bgs) and subsurface soil (2 to 10 ft bgs) is evaluated as "mixed soil" (0 to 10 ft bgs).

(5) The bedrock water-bearing zone at the Site has been formally reclassified as Class III-B (non-potable). Future use of overburden groundwater for potable purposes is also unlikely given the salinity and New Jersey regulations. However, the overburden water-bearing zone is classified as Class II-A (potable). Therefore, future commercial/industrial worker ingestion of groundwater is quantitatively evaluated to provide risk managers with information needed to evaluate the impact of any future changes in groundwater use at the Site.

(6) Future construction/utility workers are assumed to be exposed to shallow groundwater while conducting intrusive activities at the Site. Incidental ingestion and inhalation pathways are likely to be relatively insignificant in comparison to dermal contact; therefore, these pathways are evaluated qualitatively. Areas of elemental mercury are assumed to pose unacceptable risk.

(7) Indoor commercial/industrial workers may inhale vapors that migrate from the subsurface. Because elemental mercury (which is expected to be the primary risk driver for indoor air) is not soluble, modeling risk from groundwater to indoor air is inappropriate as it would likely result in a gross underestimation of risks from vapor intrusion. Rather, exposure to indoor air was evaluated using soil vapor data.

(8) Trespassers may incidentally ingest or have dermal contact with surface water; however, exposure to surface water is likely to be insignificant relative to sediment; therefore, trespasser-surface water exposure is qualitatively evaluated.

Human Health Risk Assessment
Conceptual Site Model
LCP Chemicals Superfund Site - Linden, NJ

Geosyntec consultants

May 2011

Figure 4

R2-0006164

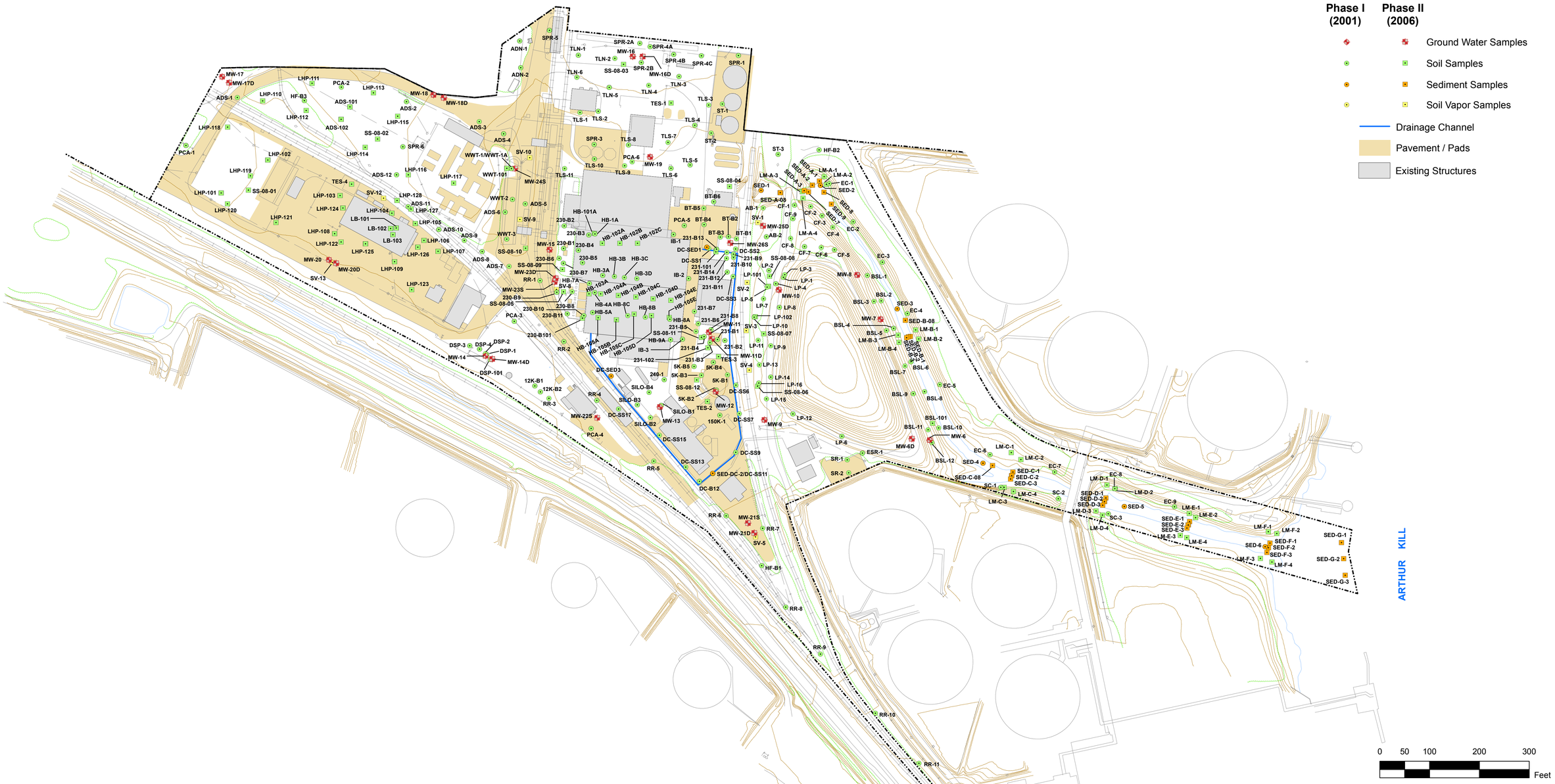


FIGURE P-5

LCP PHASE I AND PHASE II
REMEDIAL INVESTIGATION SAMPLE LOCATIONS

LCP CHEMICALS, INC.
SUPERFUND SITE
LINDEN, NEW JERSEY

DATE	PROJECT NUMBER
May 2011	135451.103

BROWN AND CALDWELL
ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/LCP_PhI_PhII_Sample_Locations.mxd

R2-0006165

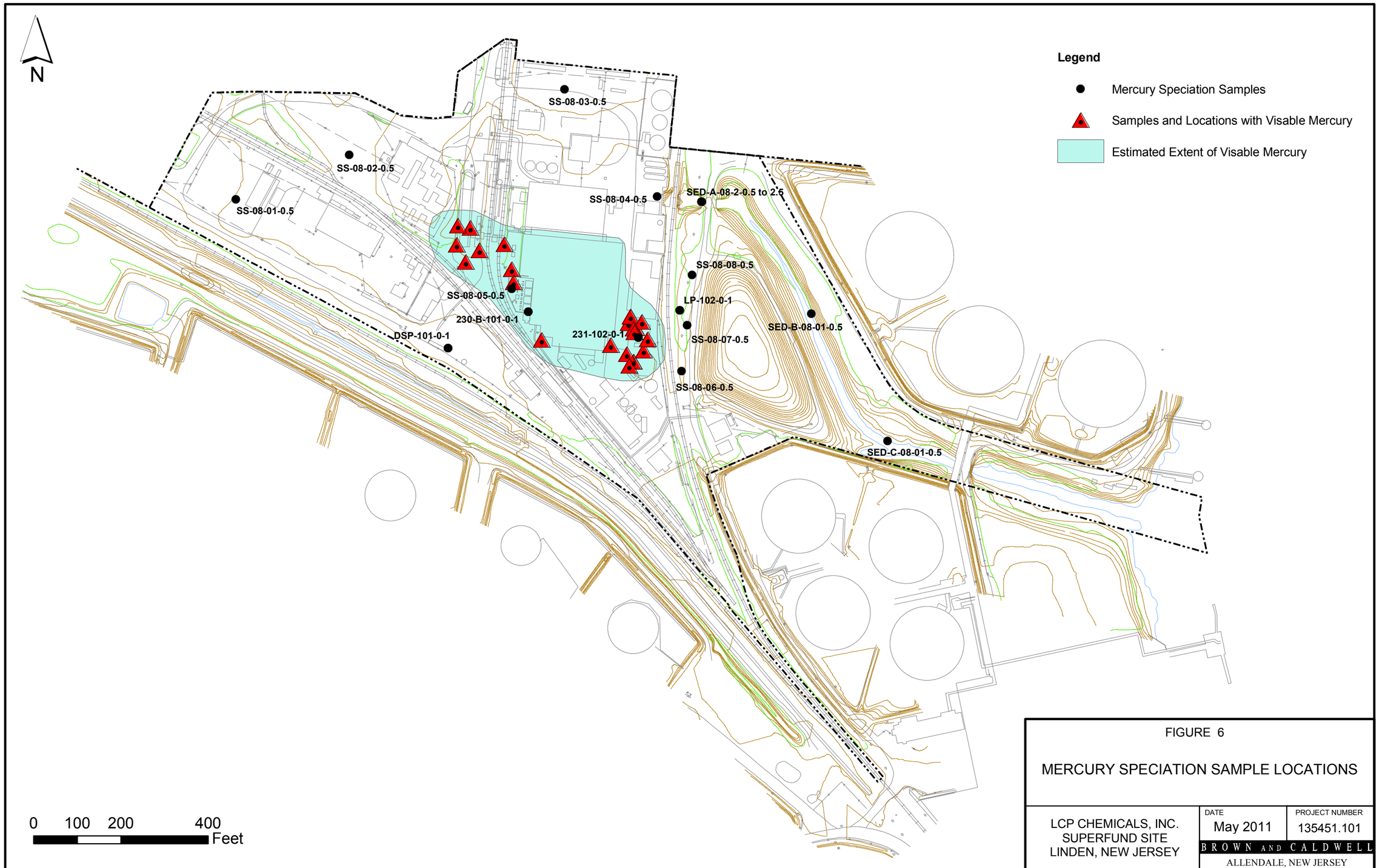


FIGURE 6

MERCURY SPECIATION SAMPLE LOCATIONS

LCP CHEMICALS, INC. SUPERFUND SITE LINDEN, NEW JERSEY	DATE May 2011	PROJECT NUMBER 135451.101
	BROWN AND CALDWELL ALLENDALE, NEW JERSEY	

P:\GIS\LCP\RIR\LCP_Hg0_Geosyntec.mxd

ATTACHMENTS

ATTACHMENT A

Supplemental Data Tables

ATTACHMENT A
Supplemental Data Tables

Table of Contents

Table A-1 **Summary of Analytical Data for Detected Constituents Evaluated in the HHRA, Surface and Subsurface Soil**
Table A-1.1 Inorganics
Table A-1.2 Polychlorinated Biphenyls
Table A-1.3 Pesticides
Table A-1.4 Dioxins
Table A-1.5 Furans
Table A-1.6a Semivolatile Organic Compounds (Polycyclic Aromatic Hydrocarbons)
Table A-1.6b Semivolatile Organic Compounds
Table A-1.7 Volatile Organic Compounds

Table A-2 **Summary of Analytical Data for Detected Constituents Evaluated in the HHRA, Overburden Groundwater**
Table A-2.1 Inorganics
Table A-2.2 Polychlorinated Biphenyls
Table A-2.3 Pesticides
Table A-2.4 Dioxins
Table A-2.5 Furans
Table A-2.6 Semivolatile Organic Compounds
Table A-2.7 Volatile Organic Compounds

Table A-3 **Summary of Analytical Data for Detected Constituents Evaluated in the HHRA, South Branch Creek Sediment/Bank Soil**
Table A-3.1 Inorganics
Table A-3.2 Polychlorinated Biphenyls
Table A-3.3 Pesticides
Table A-3.4 Dioxins
Table A-3.5 Furans
Table A-3.6a Semivolatile Organic Compounds (Polycyclic Aromatic Hydrocarbons)
Table A-3.6b Semivolatile Organic Compounds
Table A-3.7 Volatile Organic Compounds

Table A-4 **Summary Statistics for Non-Detect Constituents**
Table A-4.1 Surface Soil
Table A-4.2 Subsurface Soil
Table A-4.3 Overburden Groundwater
Table A-4.4 South Branch Creek Sediment/Bank Soil

Table A-5 **Total and Hexavalent Chromium Results**
Table A-5.1 Soil and Sediment
Table A-5.2 Overburden Groundwater

Table A-6 **Mercury Speciation**
Table A-6.1 Mercury Sequential Extraction Procedure Results
Table A-6.2 Elemental Mercury Analysis on SEP F1 Fraction
Table A-6.3 Direct Elemental Mercury Analysis on Soil Samples

Table A-7 **Calculation of PEF and VFs**
Table A-7.1 Selection of Site-Specific Q/C Term
Table A-7.2 Site-Specific PEF
Table A-7.3 Site-Specific VF Equations and Inputs
Table A-7.4 Chemical-Specific Inputs and Calculated VFs

ATTACHMENT A
Supplemental Data Tables

Table A-1.1
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Inorganics
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Inorganics (mg/kg)																									
			Cyanide	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Methyl Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
12K-B1	SS (0.0-0.5)	6-Sep-01	1.1 U	12,000 J	2.2 UJ	33	--	0.99	1.5	20,700	80 J	--	14	114	36,500	115 J	8,080	3,880 J	331	--	33	--	2.2 U	2.2 U	1,070	2.2 U	58	4,550
12K-B1	SS (0.5-2)	6-Sep-01	1.1 U	20,400 J	1.2 UJ	2.2	--	0.71	0.58 U	1,040	26 J	--	11	30	28,400	20 J	6,570	402 J	1.7	--	23	--	1.2 U	1.2 U	1,590	1.2 U	32	111
12K-B2	SS (0.0-0.5)	6-Sep-01	1.2 U	17,400 J	1.2 UJ	7.9	--	1.4	0.58 U	1,680	26 J	--	16	87	33,500	100 J	6,260	611 J	104	--	35	--	1.3	1.2 U	2,090	1.2 U	32	1,880
12K-B2	SS (0.5-2)	6-Sep-01	1.1 U	20,700 J	1.2 UJ	2.7	--	1.2	0.62 U	2,020	27 J	--	13	23	31,500	17 J	7,160	442 J	0.52	--	30	--	1.2 U	1.2 U	2,300	1.2 U	28	149
150K-1	SS (0.0-0.5)	10-Sep-01	1.2 U	20,100 J	--	8.9 J	817	19	1.2 U	26,300	227	--	157	2,960	147,000	3,920	6,940 J	1,420	145	--	1,820	2,490	2.5	1.2 U	1,320 J	2.4 U	54	16,800
150K-1	SS (0.5-2)	10-Sep-01	1.1 U	11,900 J	1.2 UJ	2.5	84	0.8	0.58 U	3,210	22	--	8.4	36	24,800	35	4,410 J	295	17	--	33	4,200	1.2 U	1.2 U	2,310 J	1.2 U	25	170
230-B1	SS (0.0-0.5)	2-Oct-01	1.2 U	9,240 J	1.2 UJ	4.2	68	0.58 U	0.58 U	1,570	16	--	7.6	55 J	18,000	43 J	2,680	148	264	--	16	1,040 J	1.2 U	1.2 U	1,010	1.2 U	25	95
230-B1	SB (4-6)	2-Oct-01	1.2 U	9,560 J	1.2 UJ	4.6	111	0.61 U	22	4,610	74	--	9.6	1,090 J	30,200	70 J	4,950	409	134	--	43	2,350 J	1.2 U	1.2 U	3,360	1.2 U	25	468
230-B10	SS (0.0-0.5)	30-Aug-01	1.5 U	11,300 J	2.9 UJ	9.6	210 J	0.72 U	27	54,300	93	--	24	507	108,000	205	25,500	547	3,380	--	124	1,210 J	1.4 U	2	720 U	1.4 U	41	3,110
230-B10	SS (1.5-2)	30-Aug-01	1.3 U	13,500 J	1.3 UJ	4.1	164 J	0.65	4.3	23,800	24	--	7.3	168	18,300	39	3,950	336	161	--	18	3,180 J	1.3 U	3.1	2,140	1.3 U	22	407
230-B101	SS (0-1)	4-Dec-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,600	0.125	--	--	--	--	--	--	--	--
230-B11	SS (0.0-0.5)	30-Aug-01	1 U	12,800 J	1.1 UJ	1.9	452 J	0.55 U	2.7	16,300	45	--	16	132	27,800	45	12,500	526	196	--	30	1,660 J	1.1 U	1.1 U	1,630	2.2 U	48	643
230-B11	SS (1.5-2)	30-Aug-01	1.1 U	14,300 J	1.1 UJ	15	185 J	0.56 U	5.1	3,340	23	--	8.8	52	20,200	51	4,900	446	18	--	19	1,860 J	1.1 U	1.1 U	3,120	1.1 U	33	277
230-B2	SS (0.0-0.5)	30-Aug-01	1.2 U	12,700 J	1.2 UJ	25	146 J	0.65	2	2,970	29	--	9.1	999	25,100	109	4,920	408	97	--	22	2,370 J	1.2 U	1.2 U	1,220	1.2 U	41	411
230-B2	SS (1.5-2)	30-Aug-01	1.1 U	7,740 J	1.1 UJ	1.6	35 J	0.55 U	0.55 U	550 U	12	--	5.5 U	11	11,100	9.2	1,240	208	0.59	--	7.9	648 J	1.1 U	1.1 U	682	1.1 U	22	38
230-B3	SS (0.0-0.5)	30-Aug-01	1.2 U	4,430 J	1.2 UJ	1.2 U	49 J	0.58 U	7.8	11,000	19	--	6.2	113	16,100	195	5,220	257	29	--	38	580 U	1.2 U	3.6	580 U	1.2 U	22	218
230-B3	SS (1.5-2)	30-Aug-01	1.2 U	12,300 J	1.2 UJ	8.2	77 J	0.6 U	0.93	6,060	25	--	8.4	243	20,100	74	3,440	388	110	--	16	1,670 J	1.2 U	1.2 U	1,940	1.2 U	32	100
230-B4	SS (0.0-0.5)	30-Aug-01	1.2 U	11,800 J	1.2 UJ	11	100 J	0.6 U	67	7,080	50	--	15	691	58,800	170	5,880	1,190	230	--	181	1,530 J	1.2 U	6.2	1,080	1.2 U	64	1,400
230-B4	SS (1.5-2)	30-Aug-01	1.1 U	10,900 J	1.2 UJ	4	71 J	0.76	0.58 U	1,410	20	--	9.8	26	22,500	21	3,830	347	0.84	--	20	2,160 J	1.2 U	1.2 U	2,260	1.2 U	25	77
230-B5	SS (0.0-0.5)	13-Sep-01	1.2 U	13,000 J	1.2 UJ	6.3	394	0.59 U	9	19,100 J	40	--	16	272	32,200	146	7,950 J	397	--	--	42	1,050 J	1.2 U	2	1,390	1.2 U	49	708
230-B5	SS (1.5-2)	13-Sep-01	1.1 U	12,600 J	1.1 UJ	2.7	27	0.56 U	0.56 U	1,420 J	13	--	5.6 U	15	12,700	11	1,090 J	85	70	--	7.8	634 J	1.1 U	1.1 U	652	1.1 U	20	34
230-B6	SS (0.0-0.5)	22-Aug-01	1.1 U	15,300 J	1.1 UJ	11	172	0.57	1.4	12,100	34	--	13	158	31,700	67	8,750	440	310	--	29	2,070	1.1 U	2.1	550 UJ	1.1 U	42	386
230-B6	SS (1.5-2)	22-Aug-01	1.1 U	13,700 J	1.1 UJ	4.4	77	0.66	0.57 U	1,410	25	--	8.3	40	22,200	30	4,110	272	1.2	--	17	2,320	1.1 U	1.1 U	570 UJ	1.1 U	34	67
230-B7	SS (0.0-0.5)	22-Aug-01	1.1 U	15,600 J	1.2 UJ	7.1	163	0.66	4.1	8,350	53	--	18	499	41,800	115	10,400	569	133	--	40	1,540	1.3	2.2	590 UJ	2.4 U	57	767
230-B7 DUP	SS (1.5-2)	22-Aug-01	1.1 U	18,000 J	1.2 UJ	8.8	142	0.88	0.58 U	3,910	31	--	12	36	29,000	26	6,490	3,680	3.9	--	25	3,560	1.2 U	1.2 U	646 J	2.3 U	39	91
230-B7	SS (1.5-2)	22-Aug-01	1.1 U	20,500 J	1.1 UJ	8.1	125	0.97	0.57 U	3,640	66	--	13	44	31,900	37	7,450	778	3.5	--	27	4,160	1.1	1.1 U	684 J	1.1 U	41	145
230-B8	SS (1.5-2)	22-Aug-01	1.2 U	14,600 J	1.2 UJ	6.1	120	1.1	0.79	4,530	27	--	9.9	115	38,300	83	3,370	1,290	64	--	29	2,750	1.3	1.2 U	4,890 J	1.2 U	23	358
230-B9 DUP	SS (0.0-0.5)	22-Aug-01	1.1 U	14,000 J	1.1 UJ	3	299	0.56	1.1	11,900	32	--	21	136	29,500	71	13,300	395	43	--	42	560 U	1.1 U	1.1 U	760 J	2.2 U	57	547
230-B9	SS (0.0-0.5)	22-Aug-01	1 U	16,700 J	1 UJ	1.5	77	0.52 U	5.2	12,000	46	--	23	232	46,700	41	15,800	483	42	--	45	520 U	1.3	1 U	1,470 J	2.1 U	56	1,210
230-B9	SS (1.5-2)	22-Aug-01	1 U	10,700 J	1.1 UJ	8.3	22 U	0.93	0.54 U	540 U	24	--	5.4 U	7.6	24,200	3.8	540 U	64	1.3	--	9.2	540 U	1.1 U	1.1 U	1,400 J	1.1 U	26	37
231-101	SS (0-1)	6-Dec-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	85 J	0.0268	--	--	--	--	--	--	--	--
231-102	SS (0-1)	4-Dec-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	609	0.0413	--	--	--	--	--	--	--	--
231-B1	SS (0.0-0.5)	5-Oct-01	1.1 U	5,960	1.1 U	4.7	119	0.57 U	0.57 U	570 U	30	--	12	30	11,300	16	570 U	43	823	--	14	949	1.1 U	1.1 U	570 U	2.3 U	33	9.1
231-B10	SS (0.0-0.5)	17-Sep-01	1.2 U	11,000 J	1.2 UJ	3.4	289 J	1.2	3.1	6,770	33	--	18	376	51,800	53	9,200	523 J	134	--	54	922 J	1.2 U	1.2 U	590 U	1.2 U	36	307
231-B11	SS (0.0-0.5)	19-Sep-01	1.3 U	14,800 J	1.3 UJ	15	110	0.67	0.67	--	36	--	10	85	27,200	81	4,190 J	431	120	--	30	1,820 J	1.3 U	1.3 U	650 U	1.3 U	43	--
231-B11	SB (8-10)	19-Sep-01	1.2 U	15,200 J	1.4 UJ	11	89	0.76	0.7 U	--	43	--	10	75	43,100	51	4,750 J	424	94	--	21	2,550 J	1.4 U	1.4 U	700 U	1.4 U	41	--
231-B12	SS (0.0-0.5)	17-Sep-01	1.2 U	14,900 J	1.2 UJ	6.8	320 J	0.6	2.6	12,400	46	--	17	242	38,700	91	13,000	564 J	130	--	39	1,630 J	1.2 U	2.3	580 U	1.2 U	52	1,160
231-B13	SS (0.0-0.5)	27-Sep-01	1.2 U	9,060 J	1.2 UJ	5.6	2,080	1.1	6.9	--	145	--	13	473	47,100	278	5,390 J	288	4,300	--	62	1,080 J	1.2 U	20	610 U	1.2 U	66	568
231-B13	SB (8-10)	27-Sep-01	1.2 U	--	1.1 UJ	2.8	101 J	0.74	0.56 U	2,040 J	24	--	9	24	25,600 J	14 J	4,990 J	302	--	--	19 J	2,590 J	1.1 U	1.1 U	1,480 J	1.1 U	27 J	--
231-B14	SS (0.0-0.5)	19-Sep-01	1.1 U	13,000 J	1.2 UJ	15	240	0.64	1.6	--	50	--	12	125	29,600	54	6,010 J	451	316	--	28	2,400 J	1.2 U	4	620 U	1.2 U	37	340
231-B2	SS (0.0-0.5)	22-Aug-01	1.1 U	13,400	2.3 U	6.3	551	0.57 U	0.61	13,300	67	--	15	144	40,900	49	8,670	382	601	--	36	675	1.3	1.1 U	570 U	1.1 U	63	132
231-B2	SS (0.5-2)	22-Aug-01	1.2 U	13,900	1.1 U	6.9	1,860	0.69	0.61	4,980	44	--	11	52	29,300	46	5,720	467	299	--	26	2,300	1.1 U	1.1 U	1,070	1.1 U	40	109
231-B3	SS (0.0-0.5)	22-Aug-01	1.1 U	7,210	1.2 U	9.1	7,310	0.6 U	3.3	15,100	104	--	9.2	183	59,600	106	3,850	342	3,710	--	32	905	1.8	1.7	600 U	1.2 U	45	196
231-B4	SS (0.0-0.5)	27-Sep-01	1.1 U	14,500 J	1.2 UJ	2.2	264 J	0.58 U	0.61	12,400	27	--	20	63	30,000	11	12,900	489	741	--	31	693 J	1.2 U	1.2 U	580 U	2.3 U	54	92
231-B4	SB (6-8)	27-Sep-01	1.2 U	--	1.2 UJ	3.2	73 J	0.6 U	0.6 U	1,750 J	14	--	6 U	20	13,200 J	49 J	2,180 J	218	--	--	11 J	996 J	1.2 U	1.2 U	732 J	1.2 U	21 J	--
231-B5	SS (0.5-2)	19-Sep-01	1.2 U	18,000 J	1.2 UJ	5.1	102	0.76	0.61 U	896	26	--	6.1 U	20	18,800	15	1,940 J	199	13	--	12	1,470 J	1.2 U	1.2 U	610 U	1.2 U	35	--
231-B6	SS (0.0-0.5)	27-Sep-01	1.2 U	--	1.2 UJ	9.3	1,430 J	0.6 U	1	12,600 J	45	--	11	112	23,200 J	54 J	5,740 J	462	--	--	29 J	1,310 J	1.2 U	1.2 U	635 J	1.2 U	41 J	--
231-B6	SB (4-6)	27-Sep-01	1.1 U	--	3.2 UJ	13	518 J	1.6 U	3.5	14,200 J	251	--	23	1,370	299,000 J	226 J	8,540 J	1,930	--	--	148 J	731 J	12	3.9	1,600 U	11 U	25 J	593 J
231-B7 DUP	SS (0.0-0.5)	13-Sep-01	1.3 U	6,660 J	1.2 UJ	2.7	393	0.61 U	1.4	21,100 J	20	--	9.3	190	21,200	42	4,330 J	222	309	--	25	754 J	1.2 U	1.2 U	775	1.2 U	61	264
231-B7	SS (0.0-0.5)	13-Sep-01	1.2 U	11,200 J	1.2 UJ	9	755	0.58 U	1.1	17,700 J	41	--	11	206	23,000	47	5,660 J	353	152	--	26	1,270 J	1.2 U	1.2 U	1,260	1.2 U	55	169
231-B8	SS (0.0-0.5)	27-Sep-01	2.3 UJ	--	2.4 UJ	16 J	1,460 J	1.2 UJ	6.6 J	3,670 J	165 J	--	14 J	820 J	96,900 J	219 J	2,250 J	616 J	--	--	110 J	1,200 UJ	4.1 J	3.5 J	1,200 UJ	2.4 UJ	39 J	1,330 J
231-B8	SB (8-10)	27-Sep-01	1.7 U	--	11 J	48	476 J	0.82 U	0.82 U	2,160 J	7,250	--	8.2 U	1,420	41,300 J	453 J	1,000 J	274	--	--	28 J	1,200 J	2.2	1.6 U	1,800 J	1.6 U	32 J	--
231-B9	SS (0.0-0.5)	27-Sep-01	1.4 U	--	1.4 UJ	4.8	383 J	1.4	5	12,200 J	62	--	17	812	59,200 J	103 J	8,080 J	555	143	--	63 J	1,580 J	1.4 U	2.6	690 U	2.8 U	42 J	310 J
231-B9	SS (0.5-2)	27-Sep-01	1.5 U	--	1.4 UJ	47	132 J	0.87	0.72	2,320 J	69	--	9.7	73	29,800 J	70	5,560 J	236	87	--	23	3,600 J	1.4 U	1.4 U	2,290 J	1.4 U	36 J	--
240-1	SS (0.0-0.5)	1-Oct-01	26 J	12,300 J	1.2 UJ	7.8	1,980	0.76	3.1	13,700 J	53	--	12	505	51,000	125	4,380	418	535	--	45	1,100	1.6	1.2 U	681	1.2 U	36	309
240-1	SB (8-10)	1-Oct-01	1.2 U	15,500	1.2 U	4.1	85	0.62	0.62 U	620 U	22	--	7	19	21,100	14	3,190	205	3.8	--	14	1,380	1.2 U	1.2 U	3,230	1.2 U	32	46
5K-B1	SS (0.0-0.5)	1-Oct-01	1.3 U	13,900	1.2 U	3.5	96	0.64	0.6 U	5,160	26	--	12	34	26,700	18	7,150	309	20	--	24	5,900	1.2 U	1.2 U	850	1.2 U	38	66
5K-B2	SS (0.0-0.5)	31-Aug-01	1.1 U	14,700 J	1.1 UJ	3.7	3,650	1.5	0.76	20,200	44	--	25	235 J	59,400	132	11,900 J	556	168	--	92	1,330 J	1.7	1.1 U	660	1.1 U	80	627
5K-B2	SB (8-10)	31-Aug-01	1.2 U	11,400 J	1.3 UJ	3.3	227	0.79	0.65 U	1,370	23	--	9.5	20 J	22,500	11	5,290 J	384	2.3	--	22	2,690 J	1.3 U	1.3 U	4,580	1.3 U	41	58
5K-B3	SS (0.0-0.5)	26-Sep-01	1.1 U	15,500 J	1.1 UJ	4	5,690	0.56 U	1.2	11,900 J	50	--	9	73	26,100	81	3,360	383	--	--	23	2,530	1.1 U	1.1 U	1,680	1.1 U	28	122
5K-B4	SS (0.0-0.5)	1-Oct-01	1.3 U	13,600	1.2 U	3.1	188	0.62 U	0.62 U	6,330	23	--	10	31	24,600	14	5,360	203	--	--	21	2,050	1.2 U	1.2 U	2,120	1.2 U	44	71
5K-B4	SB (4-6)	1-Oct-01	1.4 U	10,200	2.3	32	4,050	0.75 U	0.75 U	5,280	60	--	97	198	37,800	213	2,840	252	69	--	26	2,020	1.5 U	1.5 U	3,820	1.5 U	39	220
5K-B5	SS (0.0-0.5)	26-Sep-01	1.1 U	10,700 J	1.1 UJ	19	3,170	0.66	0.54 U	30,500	75	--	8.6	112 J	43,900	72	4,590 J	543	--	--	19	2,060 J	1.4	1.1 U	1,330	1.1 U	66	116
5K-B5 DUP	SB (4-6)	26-Sep-01	1.3 U	11,800 J	1.2 UJ	5.8	360	0.63 U	0.76	24,000 J	35	--	12	90	26,800	46	4,100 J	314	198	--	20	1,460	1.2 U	1.2 U	2,390	1.2 U	52	237
5K-B5	SB (4-6)	26-Sep-01	1.2 U	10,000 J	1.2 UJ	5	622	0.6 U	0.74	31,600 J	55	--	8.2	73	21,700	42	10,500 J	400	212	--	16	1,570	1.2 U	1.2 U	1,730	1.2 U	34	162
AB-1	SS (0.0-0.5)	4-Sep-01	1.1 U	13,800	1.1 UJ	16	3,480	0.65	1.3	5,090	40 J	--	12	--	28,000	73 J	5,560	372	775	--	28	1,180 J	1.1 U	1.1 U	550 U	1.1 U	41	132
AB-2	SS (0.0-0.5)	4-Sep-01	1.1 U	13,300	1.2 UJ	12	6,710	0.79	1.9	9,600	42 J	--	9.9	--	26,600	60 J	3,000	208	544	--	20	800 J	1.2 U	1.2 U	580 U	1.2 U	59	168
AB-2	SS (0.5-2)	4-Sep-01	1.3 U	8,810	1.3 UJ	24	2,730	0.84	3.4	91,300	28 J	--	7.6	--	26,100	71 J	9,120	224	3,860	--	24	1,250 J	1.3 U	1.3 U	1,620	1.3 U	25	266
ADN-1	SS (0.0-0.5)	5-Sep-01	1.1 U	8,410	1.1 UJ	41	148	0.57 UJ	0.57 U	5,480	31 J	--	6.5	76	16,100	109 J	3,060	516	262	--	14 J	859	1.1 U	1.1 U	570 U	1.1 U	34	--
ADN-1 DUP	SB (8-10)	5-Sep-01	1.2 U	9,230	9.7 J	228	172	0.6 UJ	0.6 U	892	27 J	--	6 U	172	20,900	110 J	2,630	166	14	--	14 J	1,480	2	1.2 U	898	1.2 U	25	--
ADN-1	SB (8-10)	5-Sep-01	1.4 U	13,900	1.4 UJ	24	107	0.7 UJ	0.7 U	1,500	25 J	--	8.3	45	20,700	477 J	3,770	241	16	--	23 J	1,730	1.4 U	1.4 U	834	1.4 U	29	--
ADN-2	SS (0.0-0.5)	5-Sep-01	1.1 U	10,100	1.1 UJ	25	115	0.56 UJ	0.56 U	12,500	59 J	--	9.6	103	37,500	78 J	5,700	1,130	62	--	22 J	1,500	1.3	1.1 U	560 U	1.1 U	62	--
ADS-1	SS (0.0-0.5)	17-Jul-01	1.2 U	7,030	6.2 J	42	534	0.65	0.59 U	5,790	34	--	20	456	60,200	351 J	4,160	329	16	--	55	590 U	3	1.3	590 U	1.2 U	70 J	953 J
ADS-10	SS (0.0-0.5)	18-Jul-01	1.1 U	20,100	75 J	90	827	19 J	1.1 U	22,600	78	--	581	7,180	147,000 J	8,920 J	6,510	1,340	5.4	--	800	2,240	6.4	1.9	--	2.2 U	75	78,000
ADS-10	SB (4-6)	18-Jul-01	1.3 U	5,510	2.3 J	86	110	0.63 UJ	0.63 U	1,600	16	--	13	425	24,500 J	198 J	1,250	93	6.7	--	40	744	2.7	1.2 U	--	1.2 U	18	1,160
ADS-101	SS (0-1)	5-Dec-06	0.34	6,840	2.3 UJ	125 J	111 J	0.57 U	0.62	1,390 J	25 J	--	5.7 U	70	18,600	50	1,840 J	217	6 J	--	16 J	982	2.3 U	1.1 U	1,100 U	1.1 U	44	45
ADS-101	SS (1-3)	5-Dec-06	0.23 U	9,670	2.2 UJ	9.5 J	65 J	0.56 U	0.56 U	597 J	17 J	--	7.4	20	19,000	14	3,000 J	261	0.035 UJ	--	16 J	1,260	2.2 U	1.1 U	1,100 U	1.1 U	133	44

ATTACHMENT A
Supplemental Data Tables

Table A-1.1
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Inorganics
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Inorganics (mg/kg)																									
			Cyanide	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Methyl Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
ADS-102	SS (0-1.5)	5-Dec-06	0.27 U	9,380	2.2 UJ	10 J	129 J	0.55 U	0.61	2,080 J	15 J	--	7.6	40	16,600	24	3,030 J	261	3.8 J	--	15 J	848	2.2 U	1.1 U	1,100 U	1.1 U	45	66
ADS-102	SB (7-8)	5-Dec-06	0.28 U	12,000	2.3 UJ	4.6 J	91 J	0.64	0.58 U	702 J	19 J	--	8.7	19	19,200	15	2,750 J	345	0.036 UJ	--	17 J	1,040	2.3 U	1.2 U	1,200 U	1.2 U	29	67
ADS-11	SS (0.0-0.5)	18-Jul-01	1.1 U	22,200	78 J	81	1,190	27 J	1.1	25,400	102	--	623	8,670	168,000 J	9,790 J	6,270	1,620	8.6	--	820	2,490	8.7	3	--	2.2 U	69	99,200
ADS-12	SS (0.0-0.5)	18-Jul-01	1.1 U	13,400	1.1 UJ	13	198	0.56 J	0.54 U	8,950	28	--	10	74	22,800 J	61 J	5,230	354	46	--	34	1,860	1.1 U	1.1 U	--	1.1 U	39	396
ADS-12	SS (0.5-2)	18-Jul-01	1.2 U	13,900	1.2 UJ	20	157	0.8 J	0.6 U	3,190	29	--	14	61	21,400 J	72 J	2,520	480	8.8	--	23	1,390	1.2 U	1.2 U	--	1.2 U	31	288
ADS-2 DUP	SS (0.0-0.5)	18-Jul-01	1.1 U	16,700	3.3 UJ	2.3	268	0.55 UJ	0.55 U	17,400	27	--	22	122	30,200 J	40 J	14,500	442	4.7	--	42	550 U	1.1 U	1.1 U	--	1.1 U	67	124
ADS-2	SS (0.0-0.5)	18-Jul-01	1.1 U	15,200	2.1 UJ	1.9	176	0.53 UJ	0.53 U	16,200	20	--	20	89	27,600 J	19 J	12,500	418	2.9	--	30	530 U	1 U	1 U	--	2.1 U	69	64
ADS-2	SB (4-6)	18-Jul-01	1.2 U	12,700	1.1 UJ	4.5	51	0.57 UJ	0.57 U	2,400	19	--	10	27	22,600 J	11 J	3,970	257	0.11	--	18	1,260	1.1 U	1.1 U	--	1.1 U	33	39
ADS-3	SS (0.0-0.5)	18-Jul-01	1.1 U	13,000	1.1 UJ	14	176	0.56 UJ	0.56 U	14,700	26	--	15	125	26,100 J	74 J	10,500	338	9.8	--	62	560 U	1.1 U	1.1 U	--	1.1 U	55	166
ADS-4	SS (0.0-0.5)	18-Jul-01	1.1 U	14,500	1.1 UJ	11	872	0.56 UJ	1.2	15,400	37	--	19	158	31,700 J	106 J	12,600	455	87	--	46	1,030	1.1 U	1.1 U	--	2.2 U	66	274
ADS-5	SS (0.0-0.5)	27-Sep-01	1.1 U	15,900 J	1.1 UJ	2 J	163	3.7 J	0.74	13,000	73	--	29	318 J	34,200 J	228	10,800	440	31	--	155	540 U	1.1 U	1.1 U	1,460	1.1 U	56	1,210
ADS-5 DUP	SB (4-6)	27-Sep-01	1.1 U	--	1.1 UJ	1.1 U	33 J	0.54 U	0.54 U	1,260	6.5	--	5.4 U	14	8,580 J	6 J	890 J	54	1	--	6.9 J	540 U	1.1 U	1.1 U	2,570	1.1 U	13 J	--
ADS-5	SB (4-6)	27-Sep-01	1.1 U	--	1.1 UJ	1.4	25 J	0.54 U	0.54 U	540 U	6.2	--	5.4 U	7.5	7,720 J	6.2 J	540 U	33	1.3	--	4.8 J	540 U	1.1 U	1.1 U	540 U	1.1 U	13 J	--
ADS-6	SS (0.0-0.5)	18-Jul-01	1.1 U	16,500 J	1.1 UJ	10 J	1,370	1.4 J	1.6	64,800	39	--	15	139 J	41,200 J	66	15,700	673	772	--	33	1,530 J	1.1 U	1.1 U	1,220	1.1 U	52	479
ADS-6	SS (0.5-2)	18-Jul-01	1.2 U	10,900 J	1.2 UJ	23 J	4,670	0.95 J	9.4	59,800	53	--	8.6	374 J	25,400 J	98	6,090	318	6,420	--	31	1,840 J	1.2 U	1.8	1,800	1.2 U	41	286
ADS-7	SS (0.0-0.5)	17-Jul-01	1 U	12,600	2.6 J	20	1,520	0.87	1.8	8,450	32	--	32	282	29,000	276 J	6,750	348	91	--	48	1,140	1.1 U	1.1 U	1,020	1.1 U	57 J	1,360 J
ADS-8	SS (0.0-0.5)	18-Jul-01	1.9	10,700	2 J	9.3	541	0.95 J	0.92	18,100	23	--	33	374	36,400 J	349 J	7,730	337	175	--	55	570 U	1.4	1.1 U	--	1.1 U	56	2,350
ADS-8	SB (4-6)	18-Jul-01	1.3 U	6,480	6.4 J	12	304	0.62 UJ	0.62 U	7,570	17	--	16	183	30,400 J	205 J	4,630	201	121	--	27	620 U	1.8	1.2 U	--	1.2 U	34	559
ADS-9	SS (0.0-0.5)	18-Jul-01	1.2 U	3,230	1.8 J	8.5	85	0.56 UJ	2	2,110	11	--	12	186	28,600 J	141 J	1,590	126	68	--	24	560 U	2.1	1.1 U	--	1.1 U	23	542
BT-B1	SS (0.0-0.5)	18-Sep-01	1.2 U	12,200 J	1.1 UJ	9.2	261 J	0.63	0.82	2,030	27	--	8.3	49	21,800	27	4,000	280 J	83	--	22	1,800 J	1.1 U	1.1 U	570 U	1.1 U	28	97
BT-B2	SS (0.0-0.5)	18-Sep-01	1.2 U	18,200 J	1.2 UJ	5.2	170 J	1.1	0.89	3,000	40	--	17	137	35,600	63	4,880	384 J	232	--	75	2,300 J	1.2 U	1.2 U	620 U	1.2 U	36	297
BT-B2	SS (0.5-2)	18-Sep-01	1.1 U	17,600 J	1.2 UJ	5.3	115 J	0.9	0.64	2,440	28	--	11	46	30,900	22	6,470	388 J	65	--	23	2,490 J	1.2 U	1.2 U	745	1.2 U	38	--
BT-B3	SS (0.0-0.5)	18-Sep-01	1.1 U	10,500 J	1.1 UJ	4.4	173 J	0.98	2.9	3,880	28	--	7.6	68	21,000	39	3,860	307 J	577	--	22	2,810 J	1.1 U	1.1 U	1,370	1.1 U	32	257
BT-B4	SS (0.0-0.5)	30-Aug-01	0.98 U	7,630 J	1 UJ	1 U	42 J	0.51 U	0.51 U	14,100	16	--	11	69	21,000	14	7,750	230	76	--	25	510 U	1 U	2.2	825	1 U	64	56
BT-B4	SS (0.5-2)	30-Aug-01	1.2 U	13,200 J	1.2 UJ	1.6	138 J	0.7	0.58 U	9,060	20	--	11	28	28,400	13	6,500	488	16	--	19	2,690 J	1.2 U	1.2 U	4,320	1.2 U	31	57
BT-B5 DUP	SS (0.0-0.5)	2-Oct-01	1.1 U	11,200 J	1.1 UJ	12	987	0.6	0.82	11,000	71	--	19	716 J	130,000	119 J	5,700	837	1,110	--	76	1,740 J	6.4	1.6	2,040	5.5 U	39	327
BT-B5	SS (0.0-0.5)	2-Oct-01	1.2 U	11,000 J	1.3 UJ	7.8	879	0.66 U	1.5	8,170	37	--	10	261 J	30,900	97 J	4,760	345	535	--	32	2,220 J	1.3 U	1.3 U	1,970	1.3 U	31	201
BT-B6	SS (0.0-0.5)	17-Sep-01	1 U	9,620 J	4.2 UJ	12	767 J	2.3	6.2	13,100	185	--	46	830	279,000	465	7,450	1,620 J	378	--	307	530 U	4.4	4.2 U	2,100 U	4.2 U	40	1,790
BT-B6	SS (0.5-2)	17-Sep-01	1.2 U	16,900 J	1.3 UJ	4.7	1,320 J	0.64 U	1.3	2,950	67	--	7.1	92	33,300	157	10,600	224 J	473	--	26	2,800 J	1.3 U	1.3 U	4,860	1.3 U	36	--
CF-1	SS (0.0-0.5)	31-Aug-01	1.1 U	5,760 J	1.2 UJ	7.7	3,410	0.58 U	1.6	2,250	12	--	8	30 J	8,950	107	1,570 J	218	56	--	8.1	580 U	1.2 U	1.2 U	580 U	1.2 U	25	83
CF-1 DUP	SB (2-4)	31-Aug-01	1.1 U	9,010 J	1.1 UJ	9.3	864 J	0.59	2.7	6,000	18	--	7	33 J	15,500	84 J	2,700 J	204	2.7	--	15	1,370 J	1.1 U	1.1 U	841	1.1 U	27	290
CF-1	SB (2-4)	31-Aug-01	1.2 U	11,300 J	1.2 UJ	35	1,970 J	0.71	9.6	5,600	25	--	9.1	56 J	20,000	282 J	3,660 J	264	0.13	--	18	1,660 J	1.2 U	1.2 U	918	1.2 U	28	592
CF-5	SS (0.0-0.5)	28-Aug-01	1.1 U	2,940 J	1.1 UJ	3	1,460 J	0.54 U	0.54 U	540 U	5.8	--	5.4 U	11	3,200 J	33	540 U	16	8.9	--	4.3 U	540 U	1.1 U	1.1 U	540 U	1.1 U	11	53
CF-5	SB (4-6)	28-Aug-01	1.1 U	6,360 J	1.1 UJ	16	5,750 J	0.55 U	1.6	5,130	19	--	5.5 U	58	17,600 J	94	924	72	64	--	9.2	685 J	1.1	1.1 U	550 U	1.1 U	25	169
CF-6 DUP	SS (0.0-0.5)	28-Aug-01	1.2 U	7,450 J	1.1 UJ	14	4,260 J	0.71	1.6	1,490	17	--	5.7 U	29	15,700 J	85	1,120	90	42	--	9.4	1,520 J	1.1 U	1.1 U	570 U	1.1 U	23	120
CF-6	SS (0.0-0.5)	28-Aug-01	1.1 U	7,200 J	1.1 UJ	14	4,510 J	0.57 U	2.2	1,540	16	--	5.7 U	30	13,000 J	102	1,060	84	40	--	8.1	1,450 J	1.1 U	1.1 U	570 U	1.1 U	22	182
CF-7	SS (0.0-0.5)	28-Aug-01	1.1 U	7,280 J	1.7 J	40	812 J	0.56 U	7.1	19,400	27	--	5.6 U	51	14,200 J	199	1,440	143	204	--	11	755 J	1.1 U	1.1 U	560 U	1.1 U	24	391
CF-7	SB (4-6)	28-Aug-01	1.1 U	8,370 J	6 J	28	3,070 J	2.2	1.7	11,700	30	--	25	412	27,300 J	310	3,840	365	375	--	46	811 J	1.6	1.1 U	540 U	1.1 U	35	1,820
CF-8	SS (0.0-0.5)	28-Aug-01	1.1 U	6,870 J	1.1 UJ	20	2,370 J	0.57 U	3.4	20,400	18	--	5.7 U	45	12,100 J	142	1,940	110	157	--	9.8	688 J	1.1 U	1.1 U	570 U	1.1 U	21	226
CF-9	SS (0.0-0.5)	31-Aug-01	1.2 U	4,650 J	1.1 UJ	12	4,320	0.54 U	2.2	2,810	12	--	5.4 U	34 J	9,310	87	945 J	59	61	--	6.7	540 U	1.1 U	1.1 U	540 U	1.1 U	18	147
CF-9	SS (0.5-2)	31-Aug-01	1 U	12,900 J	2.1 UJ	21	5,450	0.53 U	2.2	15,200	28	--	17	60 J	23,600	90	8,700 J	384	78	--	28	530 U	1.1 U	1.1 U	1,650	2.1 U	46	179
DC-B12	SS (0.0-0.5)	3-Oct-01	1.1 U	12,100 J	1.1 UJ	11	6,850	0.54 U	0.54 U	18,200	44	--	15	143 J	37,600	48 J	6,330	248	239	--	27	3,260 J	1.1 U	1.1 U	1,540	1.1 U	39	113
DC-B12	SB (2-4)	3-Oct-01	1.2 U	17,000 J	1.2 UJ	3.7	7,990	0.59	0.59 U	17,200	60	--	22	122 J	33,600	110 J	10,400	409	130	--	39	5,000 J	1.2 U	1.2 U	1,370	2.4 U	63	187
DC-SED1	SS (0.0-0.5)	20-Sep-01	2.2 UJ	14,700 J	2.4 J	29 J	1,010 J	1.1 UJ	14 J	29,500 J	149 J	--	21 J	3,630 J	74,400 J	429 J	8,430 J	891 J	3,890 J	--	159 J	2,460 J	2.1 UJ	17 J	1,100 J	2.1 UJ	123 J	1,030 J
DC-SED2	SS (0.0-0.5)	20-Sep-01	1.7 U	9,910 J	2.5 J	30	2,160 J	1.4	6	11,200	209	--	32	18,000	152,000	791	5,640	841	972	--	141	1,010	1.7 U	2.9	870 U	3.5 U	88	841
DC-SED3	SS (0.0-0.5)	20-Sep-01	3.6 UJ	14,100 J	3.9 J	34 J	1,400 J	1.9 UJ	88 J	53,200 J	344 J	--	27 J	7,030 J	133,000 J	807 J	9,670 J	4,810 J	--	--	372 J	1,900 UJ	3.7 UJ	53 J	1,900 UJ	3.7 UJ	81 J	1,950 J
DC-SS1	SS (0.0-0.5)	18-Sep-01	1.1 U	8,550 J	4.6 UJ	29	408 J	2.3 U	8.3	6,080	218	--	35	1,780	374,000	269	2,820	2,100 J	916	--	178	921 J	4.6 U	4.6 U	2,300 U	4.6 U	25	--
DC-SS11	SS (0.0-0.5)	17-Sep-01	1.1 U	6,640 J	1.1 UJ	2.8	3,240 J	0.98	0.99	47,200	33	--	9.6	116	21,500	76	23,200	270 J	84	--	21	1,370 J	1.1 U	1.1 U	530 U	1.1 U	46	284
DC-SS13	SS (0.0-0.5)	17-Sep-01	1 U	12,900 J	1.1 UJ	2.1	2,260 J	0.54 U	1.6	23,000	19	--	15	146	41,600	25	7,480	351 J	261	--	30	585 J	1.1 U	1.1 U	2,200	1.1 U	74	--
DC-SS15	SS (0.0-0.5)	17-Sep-01	1.2 U	10,600 J	1.3 UJ	5.7	8,630 J	3.6	4.1	55,600	60	--	16	317	62,700	134	18,000	473 J	2,230	--	70	1,730 J	1.3 U	1.3 U	707	1.3 U	31	1,230
DC-SS17	SS (0.0-0.5)	17-Sep-01	1.2 U	11,600 J	1.2 UJ	2	5,780 J	0.65	1.6	79,800	40	--	12	125	35,900	83	11,600	314 J	268	--	28	1,380 J	1.2 U	1.2 U	2,100	1.2 U	26	341
DC-SS18	SS (0.0-0.5)	17-Sep-01	1.1 U	6,590 J	1.7 J	8.3	6,180 J	1.9	1.3	38,200	139	--	17	1,020	30,400	320	5,070	296 J	558	--	40	939 J	1.3	1.1	633	1.1 U	21	1,780
DC-SS2	SS (0.0-0.5)	17-Sep-01	1.2 U	9,650 J	1.1 UJ	8.9	1,120 J	4.7	4.4	25,700	65	--	20	542	75,200	172	6,740	470 J	1,770	--	130	1,130 J	1.1 U	1.5	584	1.1 U	27	642
DC-SS3	SS (0.0-0.5)	17-Sep-01	1.2 U	12,100 J	9.5 J	10	612 J	1.9	12	6,760	99	--	29	938	95,700	216	3,350	602 J	1,120	--	410	1,580 J	1.6	3.9	620 U	1.2 U	31	1,070
DC-SS6	SS (0.0-0.5)	17-Sep-01	1.1 U	13,100 J	1.1 UJ	5.4	3,960 J	2.7	2.1	65,000	73	--	21	265	40,100	157	13,600	439 J	807	--	79	1,020 J	1.1 U	1.1 U	1,680	1.1 U	53	772
DC-SS7	SS (0.0-0.5)	17-Sep-01	1.2 U	6,440 J	1.1 UJ	4.8	6,400 J	2.4	4.4	45,500	48	--	12	220	63,600	110	5,950	386 J	526	--	62	560 U	1.1 U	1.2	886	1.1 U	24	612
DC-SS9	SS (0.0-0.5)	17-Sep-01	1.2 U	15,500 J	1.2 UJ	2.7	7,010 J	1.3	0.77	24,500	44	--	21	159	32,700	56	10,500	418 J	486	--	42	2,170 J	1.2 U	1.2 U	1,620	1.2 U	53	524
DSP-1	SS (0.0-0.5)	19-Nov-01	1.1 U	14,100 J	1.2 UJ	11	426	1.1	0.58 U	7,400	34	--	24	206 J	48,500	227 J	7,320	1,020	236	--	50	1,950 J	1.4	1.2 U	2,460	2.3 U	46	2,040
DSP-1	SB (4-6)	19-Nov-01	1.2 U	--	1.3 UJ	33	109	1.2	0.75	--	28	--	9.8	16	36,900	16	6,510	--	--	--	30	--	1.7	1.3 U	660 U	1.3 U	22	--
DSP-101	SS (0-1)	4-Dec-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.52	6.12E-05	--	--	--	--	--	--	--	--
DSP-2	SS (0.0-0.5)	4-Sep-01	1 U	17,300	1.1 UJ	2.4	273	0.54 U	0.75	15,100	30 J	--	25	--	35,100	68 J	14,600	563	1,540	--	42	540 U	1.1 U	1.1 U	2,190	2.2 U	70	579
DSP-3	SS (0.0-0.5)	4-Sep-01	1.1 U	13,400	1.1 UJ	9.5	333	0.61	0.57 U	6,300	30 J	--	17	--	29,900	91 J	10,700	520	2	--	31	842 J	1.1 U	1.1 U	1,200	2.3 U	56	752
DSP-3	SB (2-4)	4-Sep-01	1.2 U	18,000	1.2 UJ	2.5	455	0.94	0.59 U	1,060	27 J	--	11	--	30,200	17 J	6,340	467	0.063	--	26	2,250 J	1.2 U	1.2 U	2,390	1.2 U	28	127
DSP-4	SS (0.0-0.5)	26-Sep-01	1.2 U	15,700	2.5 J	81	377	1.7	1.3	6,570	27 J	--	18	--	44,800	140 J	5,850	3,800	27	--	42	2,520 J	2.4 U	2.4 U	2,470	2.4 U	41	2,660
DSP-4	SB (4-6)	26-Sep-01	1.3 U	--	1.3 UJ	280	216 J	0.78	0.63 U	2,080 J	26	--	12	50	56,400 J	44 J	3,680 J	747	20	--	29 J	1,970 J	3.4	1.3 U	630 U	2.5 U	27 J	635 J
ESR-1	SS (0-1)	4-Sep-01	1.1 U	9,320	1.1 UJ	1.9	710	0.56 U	0.56 U	855	16 J	--	5.6 U	--	11,900	12 J	716	31	38	--	5.7	560 U	1.1 U	1.1 U	560 U	1.1 U	21	24
ESR-1	SB (4-6)	4-Sep-01	1.2 U	5,050	1.3 UJ	3.9	4,590	0.64 U	0.64 U	78,300	7.3 J	--	6.4 U	--	5,780	20 J	2,220	35	131	--	5.1 U	640 U	1.3 U	1.3 U	1,580	1.3 U	9.7	88
HB-102A	SS (0-0)	13-Mar-07	0.39 U	18,100	3.5 UJ	9.2	45	0.87 U	0.87 U	1,880	32	--	10 J	15	31,200	14	6,630 J	291	0.56	3.09E-05	23	4,120 J	3.5 U	1.7 U	7,980 J	1.7 U	43	70
HB-102B	SS (0-0)	14-Mar-07	0.25 U	9,810 J	2.4 UJ	3.2	78 J	0.61 U	0.61 U	19,000 J	17 J	--	8 J	16	18,100 J	9.5	6,090 J	457 J	1.7	--	16 J	2,500 J	2.4 U	1.2 U	1,250	1.2 UJ	25 J	42 J
HB-102C	SS (0-0)	14-Mar-07	0.25 U	10,200 J	2.3 UJ	6.7	193 J	1	0.57 U	5,990 J	31 J	--	16 J	6.6	32,600 J	15	8,110 J	466 J	0.12	--	32 J	3,230 J	2.3 U	1.1 U	1,220	1.1 UJ	34 J	68 J
HB-105E	SS (0-0)	8-Feb-07	0.25 U	7,850	2.5 UJ	8.5	76	0.69	0.62 U	620 U	16	1.2 U	6.4	8.3	18,100	6.1	2,000 J	53	0.31 J	--	12	1,800	2.5 U	1.2 U	2,000	1.2 U	27	37
HB-1A	SB (6.75-6.75)	18-Apr-02	1.8 U	14,900	1.8 U	13	43	0.9 U	0.9 U	2,640	36	--	9 U	54 J	29,600	349	5,180	462	346	--	22	3,750 J	1.8 U	1.8 U	26,700	1.8 U	33	70
HB-3A DUP	SB (5.25-5.25)	17-Apr-02	1.3 U	9,890	1.4 U	27	103	0.72 U	0.72 U	6,030	19	--	7.2 U	32	15,700	27	2,360	276	17	--	10	2,170	1.4 U	1.4 U	10,000	1.4 U	18	78
HB-3A	SB (5.25-5.25)	17-Apr-02	1.5 U	10,300	1.5 U	27	77	0.77 U	0.77 U	4,790	17	--	7.7 U	24	19,000	22	2,210	345	16	--	9.4	1,910	1.5 U	1.5 U	11,000	1.5 U	18	73
HB-3B	SB (4.5-4.5)	17-Apr-02	1.2 U	10,100	1.2 UJ	2.8	84	0.61 U	0.61 U	18,600	17	--	8.9	16	21,100	8.2	6,090	519	--	--	19	2,760	1.2 U	1.2 U	2,070	1.2 U	25	44
HB-3C	SB (4.5-4.5)	18-Apr-02	1.2 U	9,970	1.2 UJ	2.8	69	0.62 U	0.62 U	18,200	18	--	8.7	15	19,600	8	5,950	517	--	--	18	2,790	1.2 U	1.2 U	1,850	1.2 U	24	42
HB-3D	SB (4.5-4.5)	18-Apr-02	1.2 U	10,200	1.3 UJ	2.6	92	0.66 U	0.66 U	20,700	19	--	8.3	17	19,600	8	6,790	486	--	--	18	2,910	1.3 U	1.3 U	2,190	1.3 U	25	41

ATTACHMENT A
Supplemental Data Tables

Table A-1.1
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Inorganics
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Inorganics (mg/kg)																									
			Cyanide	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Methyl Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
HB-4A	SB (5.33-5.33)	19-Apr-02	1.1 U	7,180	1.3 U	3.6	26 U	0.65 U	0.65 U	650 U	8.2	--	6.5 U	5.6 J	11,400	5.4	1,210	95	2.3	--	5.2 U	663 J	1.3 U	1.3 U	856	1.3 U	13	18
HB-5A	SB (3-3)	22-Apr-02	1.2 U	14,200	1.2 U	5.4	89	0.81	0.62 U	6,780	27	--	11	37	26,800	25	6,200	676	35	--	23	4,390	1.2 U	1.2 U	1,420	1.2 U	30	74
HB-7A	SB (5-5)	19-Apr-02	1.3 U	11,000	1.2 U	5.7	86	0.61 U	0.61 U	6,220	18	--	6.8	52 J	17,100	55	2,400	433	145	--	12	3,320 J	1.2 U	1.2 U	4,300	1.2 U	20	198
HB-8A	SB (3-3)	23-Apr-02	1.2 U	6,190	1.2 U	11	93	0.62 U	0.63	23,500	76	--	6.4	83	18,700	105	4,890	2,050	4.6	--	22	1,080	1.2 U	1.2 U	1,170	1.2 U	61	115
HB-8B	SB (4.83-4.83)	23-Apr-02	1.2 U	9,270	1.2 U	5.9	43	0.6 U	0.6 U	2,410	18	--	7.4	23	19,600	16	2,670	270	471	--	13	1,090	1.2 U	1.2 U	791	1.2 U	26	36
HB-8C	SB (5.5-5.5)	23-Apr-02	1.3 U	8,620	1.3 U	55	76	0.64 U	0.64 U	18,500	34	--	6.9	63	17,400	37	4,010	258	46	--	16	1,710	1.3 U	1.3 U	1,270	1.3 U	23	54
HB-9A	SB (4.75-4.75)	24-Apr-02	1.2 U	7,610	1.2 U	6.1	160	0.62 U	0.62 U	13,900	21	--	8.1	96	23,800	46	3,420	356	18	--	23	1,520	1.7	1.2 U	1,180	1.2 U	22	88
HF-B1	SS (0.0-0.5)	10-Sep-01	1.1 U	16,200 J	1.2 UJ	4.5	115	0.63	0.59 U	6,230	23	--	11	68	29,500	276	5,120 J	324	13	--	20	3,280	1.2 U	1.2 U	1,330 J	1.2 U	40	92
HF-B1	SB (8-10)	10-Sep-01	1.3 U	11,800 J	1.3 UJ	31	250	0.67 U	0.67 U	16,600	33	--	9.7	95	30,700	57	3,460 J	292	13	--	23	2,530	1.3 U	1.3 U	1,330 J	1.3 U	42	92
HF-B2 DUP	SS (0.0-0.5)	4-Sep-01	1 U	18,400	1 UJ	4.7	978	0.52 U	0.61	23,100	51 J	--	25	--	34,300	61 J	13,700	604	14	--	42	541 J	1 U	1 U	618	4.2 U	73	126
HF-B2	SS (0.0-0.5)	4-Sep-01	1.1 U	16,700	1.2 J	5	994	0.53 U	0.55	18,200	50 J	--	22	--	31,400	77 J	11,900	466	15	--	46	530 U	1.1 U	1.1 U	535	2.1 U	65	132
HF-B2	SB (4-6)	4-Sep-01	1.1 U	11,000	1.2 UJ	7	2,320	0.58 U	3.2	14,000	31 J	--	12	--	20,000	145 J	6,500	273	2.3	--	20	580 U	1.2 U	1.2 U	580 U	1.2 U	44	246
HF-B3	SS (0.0-0.5)	2-Oct-01	1.1 U	15,000 J	1.1 UJ	6.7	2,730	0.55 U	0.55 U	47,400	30	--	20	107 J	30,400	37 J	13,700	678	199	--	35	651 J	1.1 U	1.1 U	1,070	2.2 U	61	130
HF-B3	SB (8-10)	2-Oct-01	1.1 U	13,200 J	1.2 UJ	3.7	325	0.65	0.6 U	1,340	19	--	8.4	20 J	19,200	14 J	3,260	198	39	--	16	1,330 J	1.2 U	1.2 U	800	1.2 U	28	45
IB-1	SS (0-2)	8-Apr-02	1.1 U	9,900	1.1 UJ	4.4	55	0.55 U	0.55 U	4,180	15	--	6.6	67	16,600	126	2,410 J	180	190 J	--	22 J	1,120	1.1 U	1.1 U	1,920	1.1 U	20	84
IB-1	SB (4-6)	8-Apr-02	1.1 U	7,110	1.3 UJ	3.5	40	0.63 U	0.66	1,980	16	--	6.4	98	12,700	110	1,650 J	174	229 J	--	13 J	890	1.3 U	1.3 U	1,970	1.3 U	19 J	74 J
IB-2	SB (4-6)	8-Apr-02	1.1 U	16,500	1.3 UJ	9.3	63	0.91	0.63 U	1,980	30	--	17	29	14,100	27	3,150 J	104	33 J	--	52 J	1,520	1.3 U	1.3 U	792	1.3 U	46 J	78 J
IB-3	SB (4-6)	8-Apr-02	1.3 U	9,060	1.3 UJ	9.8	538	0.63 U	1.1	32,200	18	--	7.8	542	17,700	20	5,790 J	210	832 J	--	15 J	1,480	1.3 U	1.3 U	1,330	1.3 U	23 J	119 J
IB-3	SB (8-10)	8-Apr-02	1.4 U	9,590	1.4 UJ	166	189	0.71 U	0.71 U	35,400	71	--	7.7	234	38,500	60	5,160 J	308	103 J	--	19 J	1,540	1.4 U	1.4 U	1,630	1.4 U	25 J	85 J
LB-101	SS (0-1)	6-Dec-06	0.24 UJ	15,300	2.2 UJ	6.3 J	54	0.54 UJ	0.92	7,670 J	14 J	--	5.6	25	32,000	13	692	72	0.075 J	--	10 J	737 J	2.2 U	1.1 U	1,100 U	1.1 U	24	99
LB-101	SS (1-3)	6-Dec-06	0.23 UJ	23,900	212 J	307 J	1,590	53 J	7.1	28,800 J	99 J	--	733	9,850	240,000	11,200	8,190 J	1,820	0.032 U	--	823 J	3,210 J	21	4 J	7,700 J	26 U	78	99,900
LB-102	SS (0-3)	6-Dec-06	0.25 UJ	17,000	2.3 UJ	11 J	58	0.58 UJ	0.87	580 U	16 J	1.4 J	5.8 U	9	30,000	11	580 U	45	0.033 U	--	9.6 J	1,090 J	2.3 U	1.2 U	1,200 U	1.2 U	42	46
LB-102	SS (1-3)	6-Dec-06	0.23 UJ	20,100	44 J	80 J	1,000	45 J	4.2	24,100 J	108 J	1.6 J	480	6,380	140,000	8,970	4,990 J	1,530	727 J	--	596 J	1,950 J	6.7 U	2.1 J	4,450 J	28 U	43	71,800
LB-103	SS (0-1)	6-Dec-06	0.25 UJ	16,800	61 J	73 J	585	16 J	2.9	12,200 J	36 J	--	261	3,890	85,500	3,990	3,310 J	693	0.082 J	--	417 J	1,280 J	6.1	1.2 J	2,470 J	27 U	37	40,700
LB-103	SB (5-7)	6-Dec-06	0.28 UJ	13,200	124 J	260 J	955	12 J	5	13,200 J	81 J	--	315	5,010	126,000	5,290	4,650 J	876	1.8 J	--	531 J	1,880 J	11	2.4 J	2,920 J	31 U	44	42,300
LHP-101	SS (0-1)	4-Dec-06	0.26	7,930	2.9 J	16	185 J	0.79	1.7	4,980 J	36	1.1 U	16	146	29,400	195	3,880 J	1,190 J	6.5	--	37	580 U	2.3 U	1.2 U	1,200 U	1.2 U	66	1,520 J
LHP-101	SB (5-8)	4-Dec-06	0.28 U	7,790	2.7 UJ	252	139 J	0.68 U	1.2	1,360 J	29	1.4 U	8.4	50	29,400	38	2,180 J	274 J	1.1	--	19	1,510	2.7 U	1.4 U	1,400 U	1.4 U	18	51 J
LHP-102	SS (0-1)	5-Dec-06	0.25 U	10,400	4.5 J	17 J	176 J	9 J	1.8	12,400 J	69 J	2.7 J	30	4,380	34,800	602	6,300 J	984	7.3 J	--	98 J	621	2.3 U	1.1 U	1,100 U	1.1 U	50	2,830
LHP-102	SB (7-9)	5-Dec-06	0.33 U	2,760	18 J	145 J	154 J	0.72 U	0.72 U	821 J	26 J	--	7.2 U	302	14,100	253	822 J	74	3.7 J	--	17 J	720 U	2.9 U	1.4 U	1,400 U	1.4 U	11	136
LHP-103	SS (0-1)	5-Dec-06	0.26 U	7,530	2.3 UJ	8.4 J	112 J	0.56 U	0.62	35,400 J	18 J	--	9.9	76	12,200	88	5,970 J	170	1.1 J	--	23 J	1,250	2.3 U	1.1 U	1,100 U	1.1 U	31	307
LHP-103	SS (1-3)	5-Dec-06	0.27 U	7,730	2.9 J	7.6 J	106 J	0.92	0.83	27,200 J	13 J	--	13	116	18,600	132	2,260 J	185	0.041 J	0.00021	23 J	882	2.4 U	1.2 U	1,200 U	1.2 U	18	955
LHP-104	SS (0-1)	5-Dec-06	0.25 U	4,260	4.2 J	6.7 J	48 J	1.3 J	0.5 U	1,060 J	16 J	--	12	126	7,950	163	728 J	52	0.69 J	--	23 J	500 U	2 U	1 U	1,000 U	1 U	13	1,040
LHP-104	SB (7-9)	5-Dec-06	0.28 U	17,900	318 J	775 J	3,600 J	15 U	15 U	9,460 J	111 J	--	602	7,300	217,000	11,300	6,570 J	845	14 J	--	638 J	2,820	58 U	3	29,000 U	29 U	150 U	41,100
LHP-105 DUP	SS (0-1)	5-Dec-06	0.24 U	19,300	114 J	204 J	1,060 J	16 J	13 U	16,200 J	129 J	--	439	5,580	146,000	7,490	7,870 J	1,160	20 J	0.000621	669 J	2,090	51 U	2.2	25,000 U	25 U	130 U	48,600
LHP-105	SS (0-1)	5-Dec-06	0.25 U	23,900	202 J	335 J	1,710 J	19 J	14 U	23,200 J	131 J	--	681	8,600	204,000	11,700	9,110 J	1,530	14 J	--	792 J	2,930	55 U	3.4	27,000 U	27 U	140 U	75,500
LHP-105	SS (1-3)	5-Dec-06	0.24 U	22,400	193 J	326 J	1,730 J	15 J	13 U	21,600 J	123 J	--	702	9,150	196,000	12,200	8,410 J	1,490	1.4 J	--	945 J	2,920	50 U	2.5	25,000 U	25 U	130 U	72,800
LHP-106	SS (0-1)	4-Dec-06	0.23 U	14,000	186 J	255	1,110 J	8.4	1.1 U	14,600 J	87	1.3	306	4,350	129,000	5,670	6,510 J	754 J	2.8	--	489	2,040	6.7	1.8	2,890	11 U	54	36,900 J
LHP-106	SS (1-3)	4-Dec-06	0.21 U	17,600	142 J	165	939 J	32	1 U	22,400 J	67	1 U	530	8,780	148,000	8,300	6,770 J	1,310 J	1.2	--	850	2,420	12	2.9	3,570	25 U	52	76,600 J
LHP-107	SS (0-1)	5-Dec-06	0.25 U	18,200	15 J	31 J	450 J	18 J	0.53 U	25,500 J	69 J	--	564	7,050	122,000	10,600	6,210 J	1,790	0.4 J	--	945 J	1,890	5.3	1.1 U	2,270	27 U	52	79,100
LHP-107	SB (5-7)	5-Dec-06	0.26 U	16,900	275 J	437 J	1,060 J	6 J	10	7,950 J	144 J	--	366	6,250	247,000	9,090	7,820 J	937	2.7 J	--	494 J	3,210	22 U	3.4	11,000 U	11 U	71	37,500
LHP-108	SS (0-1)	6-Dec-06	0.25 UJ	7,830	2.3 UJ	2.7 J	59	0.57 UJ	0.57 U	20,200 J	14 J	7.3 J	7.7	37	12,200	54	5,120 J	160	1.6 J	--	19 J	708 J	2.3 U	1.1 U	1,100 U	1.1 U	34	78
LHP-108	SB (3-7)	6-Dec-06	0.28 UJ	11,800	2.5 UJ	21 J	127	0.82 J	1.2	4,450 J	31 J	--	13	64	35,400	20	7,930 J	515	0.34 J	0.000277	34 J	3,080 J	2.5 U	1.3 U	1,300 U	1.3 U	26	347
LHP-109	SS (0-1)	6-Dec-06	0.27 UJ	15,200	2.2 UJ	5.5 J	115	0.55 UJ	1.2	25,700 J	30 J	--	21	177	22,600	195	15,500 J	567	8.1 J	--	41 J	876 J	2.2 U	1.1 U	1,100 U	1.1 U	63	665
LHP-109	SB (7-9)	6-Dec-06	0.33 UJ	10,000	2.7 UJ	65 J	121	0.68 UJ	0.88	2,460 J	29 J	--	12	36	26,100	28	5,180 J	271	2.7 J	--	26 J	2,750 J	2.7 U	1.4 U	1,400 U	1.4 U	24	130
LHP-110	SS (0-1)	4-Dec-06	0.28 U	12,800	2.3 UJ	19	869 J	0.58 U	1	11,100 J	34	1.2 U	32	251	28,500	207	9,360 J	414 J	17	--	46	580 U	2.3 U	1.2 U	1,200 U	1.2 U	77	1,900 J
LHP-111	SS (0-1)	4-Dec-06	0.26 U	11,900	2.2 UJ	11	508 J	0.55 U	0.55 U	1,830 J	20	1.1 U	7.5	31	18,800	24	3,060 J	295 J	5.8	--	15	980	2.2 U	1.1 U	1,100 U	1.1 U	31	50 J
LHP-112	SS (0-1)	4-Dec-06	0.24 U	10,300	2.3 UJ	3.2	41 J	0.57 U	0.57 U	698 J	15	1.1 U	6.6	19	16,700	16	2,660 J	158 J	0.77	0.000437	13	1,120	2.3 U	1.1 U	1,100 U	1.1 U	27	62 J
LHP-113	SS (0-1)	4-Dec-06	0.24 U	10,300	2.1 UJ	6.5	97 J	0.54 U	1	8,900 J	11	1.1 U	16	66	21,900	21	6,780 J	394 J	4.7	--	18	540 U	2.1 U	1.1 U	1,380	1.1 U	58	49 J
LHP-114	SS (0-1)	4-Dec-06	0.24 U	10,600	2.1 UJ	21	325 J	0.53 U	1.4	8,030 J	21	1.1 U	17	120	23,800	81	5,160 J	721 J	54	--	31	765	2.1 U	1.1 U	1,100 U	1.1 U	46	411 J
LHP-115	SS (0-1)	4-Dec-06	0.22 U	12,900	2.1 UJ	2.1 U	21 UJ	0.53 U	0.83	11,800 J	4.7	1.1 U	18	52	24,300	3.2	8,530 J	441 J	2.3	--	14	530 U	2.1 U	1.1 U	1,900	1.1 U	61	35 J
LHP-116	SS (0-1)	4-Dec-06	0.23 U	9,590	2.3 UJ	24	99 J	0.58 U	0.78	3,170 J	15	1.1 U	10	62	19,000	62	3,470 J	248 J	3.9	0.00109	15	736	2.3 U	1.2 U	1,200 U	1.2 U	32	183 J
LHP-117	SS (0-1)	4-Dec-06	0.27 U	9,610	2.4 UJ	16	83 J	0.6 U	1.2	1,320 J	22	1.2 U	7.8	129	17,800	38	2,600 J	162 J	4.2	--	16	1,440	2.4 U	1.2 U	1,200 U	1.2 U	35	398 J
LHP-118	SS (0-1)	4-Dec-06	0.26 U	6,590	5.6 J	15	310 J	10	1.2	6,520 J	18	3.3	108	1,740	45,900	1,590	2,230 J	386 J	23	--	142	580 U	2.9	1.2 U	1,200 U	5.8 U	43	14,900 J
LHP-119	SS (0-1)	4-Dec-06	0.63	8,280	5.3 J	26	198 J	0.65	0.9	12,300 J	14	1.2 U	14	129	26,500	159	2,390 J	981 J	0.18	--	24	1,060	2.4 U	1.2 U	1,200 U	1.2 U	27	1,850 J
LHP-120	SS (0-1)	4-Dec-06	0.63	7,320	4.3 J	22	355 J	0.67 U	2.2	5,080 J	169	1.3 U	15	121	30,500	119	2,600 J	2,630 J	1.9	--	27	872	2.7 U	1.3 U	1,300 U	1.3 U	46	2,220 J
LHP-121	SS (0-1)	6-Dec-06	0.27 UJ	13,800	2.2 UJ	6.2 J	111	0.54 UJ	1.8	9,940 J	27 J	--	18	130	29,400	110	7,320 J	524	4.2 J	--	34 J	1,450 J	2.2 U	1.1 U	1,100 U	1.1 U	58	856
LHP-122	SS (0-1)	6-Dec-06	0.25 UJ	14,000	2.1 UJ	5.3 J	90	0.53 UJ	1.5	15,900 J	41 J	--	20	185	36,400	77	9,910 J	410	7.4 J	--	44 J	683 J	2.1 U	1.1 U	1,440 J	1.1 U	61	405
LHP-123	SS (0-1)	4-Dec-06	0.33	13,000	16 J	29	206 J	0.58	1.2	12,600 J	28	1.2 U	35	323	31,600	353	7,380 J	681 J	2.9	0.000203	50	972	2.2 U	1.1 U	1,140	1.1 U	57	2,330 J
LHP-124	SS (0.5-2)	27-Oct-06	0.014 U	8,570	0.54 UJ	5.1	84	0.012 U	0.058 U	43,000	22	0.26 U	7.1	45 J	13,800	60 J	6,060 J	180 J	2.1	--	16	909	0.68 U	0.081 U	50 U	0.36 U	29	129 J
LHP-124	SB (2-4)	27-Oct-06	0.014 U	13,800	0.57 UJ	3	211	0.89	0.061 U	2,980	20	0.26 U	46	15 J	31,000	22 J	7,680 J	2,010 J	4.7	--	32	2,600	0.72 U	0.085 U	53 U	0.38 U	17	63 J
LHP-125	SS (0.5-2)	27-Oct-06	0.012 U	7,840	2.9 J	9.3	93	0.011 U	0.056 U	21,300	20	2.2	11	97 J	28,600	105 J	5,260 J	436 J	0.19 J	--	22	675	0.66 U	0.079 U	49 U	0.35 U	35	449 J
LHP-125	SB (4-6)	27-Oct-06	0.013 U	8,470	0.53 UJ	3.4	132	0.011 U	0.056 U	3,970	23	1.1	9.7	18 J	27,600	15 J	5,700 J	325 J	59	--	28	1,510	0.66 U	0.078 U	49 U	0.35 U	27	58 J
LHP-126	SB (2-4)	26-Oct-06	--	15,800 J	195 J	221	946 J	22 J	14 U	16,900 J	82	1.6	368 J	5,760	152,000	6,860	6,150 J	1,060	13	--	551 J	2,370 J	55 U	2.8	27,000 UJ	27 J	140 U	51,800
LHP-126	SB (8-10)	26-Oct-06	0.29 UJ	10,200 J	177	313	1,380 J	2.6 J	5.8 U	7,020 J	80	1.2 U	206 J	3,640	132,000	3,740	4,620 J	492	5.7	--	304 J	1,900 J	5.6	2.2	2,620 J	12 U	46	18,900
LHP-127	SS (0-1)	6-Dec-06	0.22 UJ	24,600	49 J	52 J	1,200	27 J	3.3	35,400 J	77 J	3.6 J	792	9,480	161,000	9,660	7,690 J	1,890	82 J	--	913 J	2,560 J	11 U	2.2 J	6,760 J	27 U	74	114,000
LHP-127	SB (3-5)	6-Dec-06	--	18,500	315 J	482 J	2,810	12 J	7.4	14,300 J	158 J	--	558	6,650	232,000	7,900	7,670 J	977	1 J	--	583 J	3,050 J	16	3.4 J	4,940 J	27 U	69	51,100
LHP-128 DUP	SS (0-1)	6-Dec-06	0.22 UJ	27,800	73 J	109 J	986	27 J	5.8	37,800 J	72 J	3.8 J	956	11,500	165,000	15,300	9,750 J	2,150	0.43 J	--	1,330 J	2,990 J	10 U	1.9 J	7,220 J	26 U	67	116,000
LHP-128	SS (0-1)	6-Dec-06	0.24 UJ	27,600	83 J	109 J	945	26 J	6	35,600 J	77 J	2.2 J	965	11,300	174,000	15,600	9,660 J	2,110	0.41 J	--	1,290 J	2,990 J	10 U	1.8 J	7,350 J	26 U	69	110,000
LP-1	SS (0.0-0.5)	27-Aug-01	1.1 U	2,040	1.1 UJ	1.9	495	0.54 U	0.54 U	540 U	5.6	--	5.4 U	9	4,460	9	540 U	17	11	--	4.3 U	540 U	1.1 U	1.1 U	540 U	1.1 U	11	--
LP-10	SS (0.0-0.5)	27-Aug-01	1.1 U	12,500	1.1 UJ	9.2	3,220	4.5	4.2	38,200	41	--	14	305	31,600	196	5,700	366	1,820	--	57	1,380 J	1.2	1.1 U	660	1.1 U	33	--
LP-10	SS (0.5-2)	27-Aug-01	1.2 U	7,840	1.2 UJ	7.4	2,000	0.6 U	12	81,400	19	--	6.5	77	15,800	144	6,020	200	1,460	--	14	969 J	1.2 U	1.2 U	1,290	1.2 U	20	--
LP-101	SB (8-10)	27-Oct-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15	0.000798	--	--	--	--	--	--	--	--
LP-102	SS (0-1)	4-Dec-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	787	0.0899	--	--	--	--	--	--	--	--
LP-11	SS (0.0-0.5)	27-Aug-01	1.2 U	14,100	1.1 UJ	20	6,160	1.8	9	44,100	43	--	15	173	24,800	350	6,010	299	852	--	35	1,270 J	1.2	5.2	765	1.1 U	39	--
LP-12	SS (0.0-0.5)	27-Aug-01	1 U	6,080	1.1 UJ	3.7	9,570	0.81	0.73	17,400	13	--	12	55	10,600	45	2,620	130	331	--	22	570 U	1.1 U	1.1 U	570 U	1.1 U	21	--
LP-12	SB (4-6)	27-Aug-01	1.1 U	3,380	1.1 UJ	1.9	1,880	0.56 U	0.56 U	2,500	10	--	5.6 U	11	6,490	9.1	560 U	42	21	--	4.5 U	560 U	1.1 U	1.1 U	560 U	1.1 U	15	--
LP-13	SS (0.0-0.5)	24-Aug-01	1.2 U	7,480	1.2 UJ	9.2	1,260	0.65	2.1	93,600	38	--	9.6	137 J	23,000	112	6,660	207 J	1,200	--	49 J	960	1.2 U	1.2 U	1,520	1.2 U	38	385

ATTACHMENT A
Supplemental Data Tables

Table A-1.1
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Inorganics
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Inorganics (mg/kg)																									
			Cyanide	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Methyl Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
LP-14	SS (0.0-0.5)	24-Aug-01	1.1 U	6,900	1.1 UJ	62	6,790	0.56 U	0.56 U	32,700	35	--	7.2	61 J	18,500	72	2,770	166 J	80	--	11 J	728	1.3	1.1 U	560 U	1.1 U	25	79
LP-14	SS (0.5-2)	24-Aug-01	1.1 U	11,400	1.1 UJ	5.3	2,940	2.1	0.76	32,100	38	--	19	175 J	30,400	77	7,740	332	314	--	60 J	542	1.3	1.1 U	1,150	1.1 U	46	474
LP-15	SS (0.0-0.5)	24-Aug-01	1.1 U	7,170	1.1 UJ	5.5	5,720	0.81	1.4	47,200	23	--	9.8	98 J	20,100	47	5,820 J	212	297	--	23 J	560 U	1.1 U	1.1 U	1,120	1.1 U	28	249
LP-16	SS (0.0-0.5)	27-Aug-01	1.1 U	7,290	1 UJ	8.4	5,160	2.5	1.2	104,000	26	--	11	178	20,900	128	5,840	213	733	--	58	881 J	1 U	1 U	1,620	1 U	52	--
LP-16	SS (0.5-2)	27-Aug-01	1 U	8,590	2 UJ	3.8	5,760	0.69	0.64	2,950	15	--	26	48	14,000	22	3,090	254	143	--	37	510 U	1 U	1 U	510 U	1 U	30	--
LP-2	SS (0.0-0.5)	28-Aug-01	1 U	5,750 J	1.1 UJ	19	4,190 J	0.55 U	1.8	10,600	19	--	5.5 U	59	15,900 J	82	2,120	111	304	--	12	550 U	1.1 U	1.1 U	550 U	1.1 U	22	164
LP-2	SS (0.5-2)	28-Aug-01	1.2 U	14,400 J	1.2 UJ	18	6,960 J	0.68	3.1	14,300	42	--	13	131	25,400 J	130	5,570	300	1,600	--	26	1,410 J	1.2 U	1.2 U	1,570	1.2 U	45	258
LP-3	SS (0.0-0.5)	27-Aug-01	1.1 U	14,000	1.2 UJ	6.7	3,360	0.58 U	0.73	35,300	26	--	16	65	22,800	40	9,750	338	246	--	27	580 U	1.2 U	1.2 U	1,630	1.2 U	49	--
LP-4	SS (0.0-0.5)	21-Aug-01	1 U	10,100	2.2 UJ	4.5	2,390	0.55 U	1.2	24,300 J	19	--	11	114	22,100	46	4,610	205	74	--	26 J	805	1.1 U	3.9	1,970	1.1 U	31	135 J
LP-4	SS (0.5-2)	21-Aug-01	1 U	11,500	1.2 UJ	8.8	1,780	0.58 U	1.5	32,700 J	33	--	13	91	24,200	73	6,870	324	495	--	23 J	819	1.2 U	1.2 U	2,770	1.2 U	41	134 J
LP-5	SS (0.0-0.5)	27-Aug-01	1.1 U	11,400	5.7 UJ	21	10,500	0.94	7.1	21,000	40	--	15	291	26,100	288	5,630	316	732	--	39	1,190 J	1.2	1.1 U	570 U	1.1 U	39	--
LP-6	SS (0.0-0.5)	27-Aug-01	1.1 U	15,400	5.4 UJ	5.8	5,930	0.93	0.64	46,100	50	--	23	136	35,300	61	14,400	521	378	--	43	624 J	1.1 U	1.1 U	2,080	1.1 U	65	--
LP-6	SB (4-6)	27-Aug-01	1.1 U	4,080 J	1.1 UJ	2	497 J	0.55 U	0.55 U	563	11	--	5.5 U	10	8,660 J	8	550 U	62	36	--	5	550 U	1.1 U	1.1 U	550 U	1.1 U	15	22
LP-7	SS (0.0-0.5)	24-Aug-01	1.2 U	9,950	1.2 UJ	17	889	3	5	54,500	52	--	14	290 J	47,300	149	6,900	385 J	1,350	--	65 J	1,100	1.8	3.2	1,010	1.2 U	34	864
LP-8 DUP	SS (0.0-0.5)	24-Aug-01	1.2 U	6,200	1.2 UJ	4.8	801	1	0.58 U	1,970	9.6	--	5.8 U	35 J	8,700	33	740	38 J	13	--	11 J	580 U	1.2 U	1.2 U	580 U	1.2 U	14	50
LP-8	SS (0.0-0.5)	24-Aug-01	1.2 U	6,840	1.2 UJ	4.6	508	1	0.59 U	1,580	9.2	--	5.9 U	35 J	10,300	33	1,020	49 J	22	--	11 J	590 U	1.2 U	1.2 U	590 U	1.2 U	16	51
LP-9	SS (0.0-0.5)	24-Aug-01	1.1 U	9,870	1.1 UJ	14	4,530	0.54 U	0.73	30,800	26	--	13	66 J	18,700	49	5,630	256 J	49	--	23 J	602	1.1 U	1.1 U	728	1.1 U	37	152
MW-11D	SB (6-8)	9-Nov-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	57	0.0697	--	--	--	--	--	--	--	--
MW-26S	SB (8-10)	26-Oct-06	0.38 J	14,700 J	2.6 U	42	141 J	0.64 UJ	0.86	1,220 J	51	1.3 U	11 J	48	24,900	31	4,610 J	238	55	--	22 J	2,580 J	2.6 U	1.3 U	2,240 J	1.3 U	33	102
MW-6D	SS (0-2)	8-Nov-06	0.27 UJ	6,420 J	2.2 UJ	5.4	6,740 J	0.56 U	0.56 UJ	17,100	20 J	--	5.6 U	38 J	12,200 J	19 J	2,180 J	83 J	203	--	8.6 J	560 UJ	2.2 U	1.1 U	1,100 U	1.1 U	56	33
PCA-1	SS (0.0-0.5)	17-Jul-01	1 U	11,300	1 UJ	5.2	229	0.51 U	0.51 U	15,300	27	--	16	79	25,300	61 J	13,100	448	5.7	--	33	517	1 U	1 U	912	1 U	64 J	210 J
PCA-1	SB (4-6)	17-Jul-01	1.2 U	19,200	1.2 UJ	6.3	296	1.5	0.58 U	1,370	27	--	13	22	44,700	32 J	8,670	914	0.22	--	30	3,550	1.2 U	1.2 U	580 U	1.2 U	33 J	82 J
PCA-2	SS (0.0-0.5)	17-Jul-01	1.1 U	12,600	1.1 UJ	8.8	2,780	0.56 U	2.6	12,700	46	--	14	168	27,600	61 J	7,960	377	1,020	--	42	811	1.1 U	1.1 U	932	1.1 U	47 J	147 J
PCA-3	SS (0.0-0.5)	13-Sep-01	1.1 U	13,800 J	14 J	17	359	5	0.56 U	23,800 J	40	--	124	1,530	67,000	1,530	11,500 J	1,420	51	--	204	1,380 J	1.5	1.1 U	754	2.2 U	57	15,700
PCA-3	SB (4-6)	13-Sep-01	1.2 U	4,670 J	11 J	67	310	2	0.64	6,250 J	18	--	58	948	34,300	793	1,910 J	172	3.8	--	87	620 U	1.3	1.2 U	620 U	1.2 U	18	6,670
PCA-4 DUP	SS (0.0-0.5)	26-Sep-01	1.1 U	12,700 J	1.4 J	22	1,320	1.5	0.54 U	9,550 J	32	--	15	140	44,400	120	6,660 J	1,330	88	--	35	2,070 J	1.1 U	1.1 U	794	1.1 U	52	1,780
PCA-4	SS (0.0-0.5)	26-Sep-01	1 U	11,700 J	1.1 UJ	7.7	1,120	0.72	0.54 U	16,900 J	26	--	18	113	70,800	33	12,500 J	900	121	--	32	846 J	1.1 U	1.1 U	1,090	2.2 U	79	690
PCA-4	SB (4-6)	26-Sep-01	1.2 U	--	1.4 UJ	28	275 J	0.97	0.7 U	1,830 J	25	--	17	134	52,600 J	25 J	5,540 J	980	16	--	34 J	2,960 J	1.6	1.4 U	700 U	2.8 U	24 J	--
PCA-5	SS (0.0-0.5)	7-Sep-01	1.2 U	9,950	1.2 UJ	5.7	193	0.59 UJ	0.59 U	22,200	23	--	6.2	253	22,600	43 J	3,270	205	1,550	--	16 J	1,220	1.2 U	1.2 U	1,130	1.2 U	37	52
PCA-5	SS (0.5-2)	7-Sep-01	1.1 U	10,800	1.1 UJ	5.8	166	0.68 J	0.56 U	1,780	19	--	8.4	27	21,300	87 J	3,730	276	662	--	17 J	1,670	1.1 U	1.1 U	991	1.1 U	34	64
PCA-6	SS (0.0-0.5)	7-Sep-01	1.1 U	11,500	1 UJ	9.4	1,050	1.3 J	2.6	12,200	84	--	24	459	62,100	309 J	9,400	554	308	--	82 J	795	1	2.4	828	1 U	52	1,010
RR-1	SS (0.0-0.5)	22-Aug-01	1.1 U	13,400 J	1.1 UJ	6.7	556	0.56 U	1.2	12,600	30	--	16	273	30,700	74	8,980	356	152	--	33	929	1.1 U	1.1 U	1,380 J	2.2 U	57	243
RR-10	SS (0.0-0.5)	12-Oct-01	1.3	5,170 J	1.3 J	13	251	0.55 U	0.55 U	--	36	--	7.7	125	49,500	111	--	270 J	2.8	--	30	550 U	2.8	1.1 U	550 U	1.1 U	41	70
RR-11 DUP	SS (0.0-0.5)	12-Oct-01	1.1 U	6,600 J	1.1 UJ	11	148	0.53 U	0.59	--	36	--	9	120	39,200	104	--	268 J	2.4	--	34	530 U	2.5	1.1 U	530 U	1.1 U	43	179
RR-11	SS (0.0-0.5)	12-Oct-01	1.2 U	5,860 J	1.2 UJ	13	167	0.61 U	0.69	--	42	--	9	145	41,800	128	--	282 J	1.6	--	31	610 U	3.3	1.2 U	610 U	1.2 U	51	189
RR-12	SS (0.0-0.5)	12-Oct-01	1.2 U	8,300 J	1.1 UJ	16	276	0.56 U	1.1	--	33	--	14	155	49,900	138	--	4,710 J	2.4	--	44	718	2.6	1.1 U	560 U	1.1 U	46	318
RR-2	SS (0.0-0.5)	13-Sep-01	1.2 U	17,800 J	1.2 UJ	1.2 U	422	0.59 U	0.59 U	18,600 J	26	--	21	83	33,200	8.6	13,000 J	418	15	--	36	590 U	1.2 U	1.2 U	2,120	2.4 U	82	64
RR-2	SB (8-10)	13-Sep-01	1.5 U	12,000 J	1.5 J	15	243	0.76 U	0.76 U	23,500 J	25	--	13	115	30,800	106	3,440 J	533	5	--	23	2,080 J	1.5 U	1.5 U	2,040	1.5 U	35	381
RR-3	SS (0.0-0.5)	13-Sep-01	1.1 U	19,500 J	1.1 UJ	8.1	740	0.55 U	1	17,800 J	47	--	25	137	59,600	46	17,100 J	727	85	--	47	553 J	1.1 U	1.1 U	3,510	3.3 U	77	424
RR-4	SS (0.0-0.5)	13-Sep-01	1.1 U	13,300 J	1.2 UJ	4.6	298	1.4	0.72	11,100	54	--	19	192	62,600	202	11,500 J	477	75	--	80	1,210	1.2 U	1.2 U	1,080 J	1.2 U	45	493
RR-4	SB (6-8)	13-Sep-01	1.2 U	3,670 J	1.2 UJ	7.4	127	0.58 U	0.58 U	4,410 J	13	--	5.8 U	45	17,500	54	1,260 J	138	17	--	16	683 J	1.2 U	1.2 U	580 U	1.2 U	13	76
RR-5	SS (0.0-0.5)	10-Sep-01	1 U	14,300 J	1 UJ	1.4	142	0.5 U	0.5 U	11,300	7.3	--	12	60	18,900	9.8	3,990 J	152	2.6	--	14	500 U	1 U	1 U	2,440 J	1 U	95	44
RR-6	SS (0.0-0.5)	10-Sep-01	1.1 U	8,140 J	1 UJ	4.7	554	0.51 U	0.88	12,600	17	--	14	90	31,900	25	8,110 J	375	52	--	21	850	1 U	1 U	800 J	1 U	56	97
RR-6	SB (8-10)	10-Sep-01	1.1 U	13,100 J	1.2 UJ	4.3	91	0.8	0.6 U	4,940	17	--	8.1	22	25,400	23	2,910 J	485	11	--	13	2,330	1.2 U	1.2 U	710 J	1.2 U	30	50
RR-7	SS (0.0-0.5)	10-Sep-01	1.1 U	15,800 J	1.7 J	9.2	350	0.58	1	8,760	34	--	14	120	28,800	76	7,460 J	326	125	--	34	1,960	1.1 U	1.1 U	1,190 J	1.1 U	46	188
RR-8	SS (0.0-0.5)	26-Sep-01	1.2 U	11,800 J	1.2 UJ	10	322	0.59 U	1.1	3,820 J	36	--	18	163	63,000	139	3,460	544	29	--	34	796	1.9	1.2 U	658	1.2 U	82	232
RR-8	SB (6-8)	26-Sep-01	1.7 U	3,520 J	4.9 J	54	201	0.9 U	0.9 U	904 J	31	--	9 U	326	11,600	123	900 U	25	53	--	17	900 U	3.5	1.8 U	900 U	1.8 U	19	79
RR-9	SS (0.0-0.5)	12-Oct-01	1.1 U	6,300 J	1 UJ	11	293	0.53 U	0.7	--	41	--	11	155	61,100	152	--	360 J	6.8	--	38	530 U	3.1	1 U	530 U	1 U	57	99
SILO-B1	SS (0.0-0.5)	6-Sep-01	1.2 U	11,400 J	1.2 UJ	14	--	0.59 U	0.59 U	54,700	27 J	--	7.3	65	23,200	94 J	18,300	648 J	382	--	19	--	1.2 U	1.2 U	590 U	1.2 U	36	119
SILO-B1 DUP	SB (6-8)	6-Sep-01	1.5 U	6,160 J	2.2 J	71	--	0.79 U	2.5	20,200	241 J	--	7.9 U	828	17,300	252 J	1,040	119 J	114	--	14	--	3.2	1.6 U	811	1.6 U	46	212
SILO-B1	SB (6-8)	6-Sep-01	1.4 U	4,680 J	3.1 J	97	--	0.74 U	0.74 U	32,500	77 J	--	7.4 U	243	14,600	363 J	740 U	102 J	73	--	7.9	--	2.5	1.5 U	1,020	1.5 U	23	143
SILO-B2	SS (0.0-0.5)	6-Sep-01	1.1 U	7,430 J	1.1 UJ	4.7	--	0.56 U	0.56 U	105,000	19 J	--	6	39	21,000	41 J	23,000	204 J	791	--	18	--	1.1 U	1.1 U	560 U	1.1 U	21	--
SILO-B3	SS (0.0-0.5)	6-Sep-01	1.1 U	12,100 J	1.1 UJ	13	--	0.57	8.8	26,800	36 J	--	9.1	107	24,800	110 J	4,960	468 J	132	--	22	--	1.1 U	1.1 U	1,580	1.1 U	36	202
SILO-B3	SB (6-8)	6-Sep-01	1.1 U	14,500 J	1.2 UJ	1.6	--	0.8	0.58 U	884	26 J	--	10	16	25,100	15 J	6,130	245 J	1.6	--	25	--	1.2 U	1.2 U	2,610	1.2 U	29	--
SILO-B4	SS (0.0-0.5)	6-Sep-01	1.1 U	12,500 J	1.2 UJ	20	--	0.71	0.78	4,540	66 J	--	17	128	37,600	153 J	4,610	305 J	106	--	51	--	2	1.2 U	580 U	1.2 U	49	260
SPR-1	SS (0.0-0.5)	5-Sep-01	1.1 U	12,900	1.1 UJ	6.4	1,310	0.53 UJ	0.53 U	12,400	29 J	--	15	121	25,500	61 J	7,990	326	109	--	40 J	902	1.1 U	1.1 U	1,000	2.1 U	64	--
SPR-1	SB (8-10)	5-Sep-01	1.4 U	4,580	1.4 UJ	14	254	0.69 UJ	0.69 U	3,120	16 J	--	6.9 U	77	6,900	85 J	4,960	56	51	--	38 J	845	1.4 U	1.4 U	1,570	1.4 U	13	--
SPR-2A	SS (0.0-0.5)	19-Jul-01	1.1 U	13,900 J	1.1 UJ	4.6 J	279	0.56 UJ	1.6	14,100	36	--	18	127 J	30,900 J	56	11,100	360	84	--	42	630 J	1.1 U	1.1 U	1,260	2.2 U	45	133
SPR-2A	SB (8-10)	19-Jul-01	1.3 U	5,310 J	1.3 UJ	7.8 UJ	93	0.66 UJ	0.66 U	4,650	20	--	7.4	34 J	9,230 J	18	4,810	94	3	--	17	660 U	1.3 U	1.3 U	1,010	1.3 U	22	44
SPR-2B	SS (0.0-0.5)	19-Jul-01	1 U	15,900	1.1 U	6.9	1,090	0.6	2.4	50,700	55	--	20	197	46,800	110	12,800	493	153	--	66	1,170	1.1 U	1.6	2,000	1.8 U	60	324
SPR-3	SS (0.0-0.5)	21-Aug-01	1.1 U	10,500	5.2 J	12	324	15	1.8	22,200 J	94	--	66	1,170	129,000	657	6,190	908	20	--	330 J	804	2.3	1.1 U	2,590	1.1 U	38	4,410 J
SPR-3	SB (4-6)	21-Aug-01	1.2 U	11,700	1.2 UJ	8.8	89	1.2	0.82	12,200 J	37	--	11	136	31,500	126	3,350	302	277	--	41 J	1,100	1.2 U	1.2 U	1,900	1.2 U	40	345 J
SPR-4A	SS (0.0-0.5)	19-Jul-01	1.2 U	13,300 J	1.2 UJ	5.8 J	1,460	0.6 UJ	3.1	12,700	52	--	19	162 J	47,100 J	125	12,100	402	85	--	106	600 U	1.2 U	1.2	1,120	1.2 U	57	707
SPR-4A	SB (8-10)	19-Jul-01	1.7 U	12,000 J	1.7 UJ	25 J	1,790	1.4 J	0.99	5,870	110	--	9.9	126 J	21,000 J	108	6,540	61	12	--	21	1,580 J	1.7 U	1.7 U	12,300	1.7 U	20	50
SPR-4B	SS (0.0-0.5)	22-Aug-01	1.2 U	8,210	1.2 U	8.9	131	0.6 U	0.72	4,010	15	--	7.8	128	23,600	40	2,780	239	6.5	--	33	654	1.2 U	1.2 U	1,290	1.2 U	30	80
SPR-4B	SB (4-6)	22-Aug-01	1.2 U	5,700	1.2 UJ	4.7	60 J	0.59 U	0.59 U	1,100	14	--	5.9 U	21	10,500	16	1,700	53	0.9	--	13	590 U	1.2 U	1.2 U	628	1.2 U	17	54 J
SPR-4C	SS (0.0-0.5)	23-Aug-01	1.1 U	9,540	1.1 UJ	240	502	0.56 U	6.9	5,960	53	--	13	146 J	89,800	88	4,250	588 J	169	--	42 J	838	3.7	1.1	1,540	1.1 U	44	310
SPR-4C	SB (4-6)	23-Aug-01	1.2 U	4,230	1.3 UJ	14	80	0.65 U	0.65 U	1,640	14	--	6.5 U	38 J	10,800	37	1,210	83 J	9	--	13 J	867	1.3 U	1.3 U	1,540	1.3 U	18	56
SPR-5	SS (0.0-0.5)	5-Sep-01	1 U	9,720	1 UJ	6.6	123	0.52 UJ	0.61	10,100	26 J	--	13	109	26,300	57 J	7,820	283	36	--	32 J	520 U	1 U	1.6	520 U	1 U	69	--
SPR-5	SB (2-4)	5-Sep-01	1.2 U	4,770	1.2 UJ	12	64	0.6 UJ	0.6 U	1,460	14 J	--	6.4	40	11,200	43 J	1,360	59	4.2	--	15 J	600 U	1.2 U	1.2 U	600 U	1.2 U	30	--
SPR-6	SS (0.0-0.5)	13-Sep-01	1.1 U	19,000 J	1.1 UJ	2.3	42	0.54 U	0.54 U	11,400 J	13	--	24	57	39,800	12	12,000 J	638	3.2	--	21	540 U	1.1 U	1.1 U	2,450	2.1 U	101	58
SPR-6	SS (0.5-2)	13-Sep-01	1.1 U	6,090 J	14 J	17	393	0.54 U	1.6	3,800 J	80	--	8.8	185	60,800	966	2,340 J	404	47	--	45	540 U	1.9	1.1 U	832	1.1 U	53	344
SR-1	SS (0.0-0.5)	17-Jul-01	1.1 U	6,650	5.5 UJ	24	409	1.3	18	24,000	180	--	19	511	350,000	285 J	2,380	1,870	362	--	135	594	6.5	1.6	550 U	3.3 U	27 U	1,170 J
SR-2	SS (0.0-0.5)	17-Jul-01	1 U	10,400	2.3 J	17	395	3.8	12	18,200	121	--	20	415	135,000	395 J	2,940	825	6,210	--	148	773	2.5	1.6	500 U	2 U	34 J	1,200 J
SS-08-09	SS (0-1)	15-May-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,720	--	--	--	--	--	--	--	--	--
SS-08-10	SS (0-1)	15-May-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7,870	--	--	--	--	--	--	--	--	--
SS-08-11	SS (0.0-0.5)	15-May-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,760	--	--	--	--	--	--	--	--	--

ATTACHMENT A
Supplemental Data Tables

Table A-1.1
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Inorganics
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Inorganics (mg/kg)																									
			Cyanide	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Methyl Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
SS-08-12	SS (0.0-0.5)	15-May-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6,840	--	--	--	--	--	--	--	--	--
ST-1	SS (0.0-0.5)	5-Sep-01	1 U	14,900	1.1 UJ	2.6	237	0.54 UJ	0.54 U	16,900	21 J	--	18	96	27,300	22 J	11,700	355	59	--	36 J	540 U	1.1 U	1.1 U	2,540	2.1 U	56	--
ST-2	SS (0.0-0.5)	5-Sep-01	1.1 U	9,410	7.9 J	29	4,050	0.64 J	1	9,420	42 J	--	23	335	40,700	362 J	4,690	411	270	--	49 J	804	1.1 U	1.1 U	561	1.1 U	52	1,260
ST-3	SS (0.0-0.5)	4-Sep-01	1.1 U	1,120	1.1 UJ	1.2	51	0.57 U	0.57 U	570 U	4.8 J	--	5.7 U	--	2,020	10 J	570 U	7.1	6.4	--	4.5 U	570 U	1.1 U	1.1 U	570 U	1.1 U	10	6.5
ST-3	SB (4-6)	4-Sep-01	1.5 U	5,140	1.5 UJ	94	2,010	0.74 U	20	8,260	28 J	--	8.3	--	24,500	73 J	740 U	128	8.8	--	17	740 U	1.5 U	1.5 U	740 U	1.5 U	17	695
TES-1	SS (0-1)	5-Dec-06	0.26 UJ	7,290	2.3 UJ	5.7 J	101	0.57 UJ	3.1	3,740 J	48 J	--	14	134	60,900	69	6,810 J	312	92 J	--	45 J	570 UJ	2.9	1.1 U	1,100 U	1.1 U	70	84
TES-2	SS (0-1)	4-Dec-06	0.28 U	6,840	2.4 UJ	2.4 U	170 J	0.61 U	1.1	6,360 J	14	--	10	74	15,100	8.2	6,140 J	135 J	138	--	29	610 U	2.4 U	1.2 U	1,200 U	1.2 U	39	55 J
TES-3	SS (0-1)	4-Dec-06	0.93	11,000	2.5 UJ	15	1,020 J	0.63 U	5.8	5,620 J	104	--	15	272	111,000	104	5,280 J	707 J	815	--	72	1,410	4.5	1.3 U	1,300 U	1.3 U	51	223 J
TES-4	SS (0-1)	5-Dec-06	0.26 U	8,000	21 J	32 J	289 J	6.9 J	1.6	7,480 J	18 J	--	113	1,360	39,100	1,350	3,150 J	449	65 J	--	153 J	642	2.6	1.1 U	1,420	5.7 U	32	13,000
TLN-1	SS (0.0-0.5)	20-Aug-01	1.2 U	13,100 J	1.2 UJ	23	297	2.9	0.62 U	9,630	167	--	22	367 J	111,000 J	81	8,150	799 J	211	--	106	846 J	2.8	1.8	674 J	1.2 U	49	451
TLN-1	SS (0.5-2)	20-Aug-01	1.2 U	17,600 J	1.2 J	9.1	705	0.68	1.3	14,800	38	--	21	145 J	37,500 J	94	13,200	448 J	49	--	46	974 J	1.2 U	1.2 U	4,410 J	1.2 U	50	378
TLN-2	SS (0.0-0.5)	19-Jul-01	1.1 U	22,000 J	1 UJ	3.3 J	301	0.62 J	1.8	24,200	39	--	25	114 J	41,300 J	49	16,600	542	22	--	46	887 J	1 U	1 U	3,450	2.1 U	72	162
TLN-3	SS (0.0-0.5)	17-Jul-01	1.1 U	10,600	1.1 UJ	3.2	2,170	0.75	1.2	16,500	32	--	13	156	36,000	59 J	6,570	334	27	--	41	530 U	1.1 U	1.1 U	2,920	1.1 U	57 J	206 J
TLN-3	SB (2-4)	17-Jul-01	1.1 U	4,980	1.2 UJ	8	82	0.71	0.61 U	1,440	16	--	6.1 U	25	11,500	35 J	1,700	215	1.2	--	12	937	1.3	1.2 U	921	1.2 U	20	33 J
TLN-4 DUP	SS (0.0-0.5)	20-Aug-01	1 U	13,800 J	1 UJ	5.2	1,030	0.76	0.81	15,400	39	--	17	152 J	32,800 J	64	9,130	376 J	128	--	84	523 J	1 U	1 U	2,620 J	1 U	58	240
TLN-4	SS (0.0-0.5)	20-Aug-01	1 U	12,900	1 UJ	4.3	903	1.4	0.52 U	13,400	56	--	20	200 J	39,700 J	78	8,770	404 J	128	--	188	628 J	1 U	1 U	1,920 J	1 U	55	496
TLN-5	SS (0.0-0.5)	20-Aug-01	1 U	12,100 J	1 UJ	9.1	84	0.52 U	0.7	42,300	26	--	10	50 J	18,200 J	33	8,000	293 J	1.9	--	19	1,090 J	1 U	1 U	1,470 J	1 U	48	164
TLN-5	SS (0.5-2)	20-Aug-01	1.1 U	14,000 J	1.5 J	13	77	0.55 U	0.55 U	31,100	19	--	14	74 J	26,800 J	89	10,500	342 J	11	--	25	746 J	1.1 U	1.1 U	2,250 J	1.1 U	70	116
TLN-5	SB (4-6)	20-Aug-01	1.1 U	11,200 J	1.2 UJ	5.9	62	0.58 U	0.58 U	19,800	21	--	11	51 J	19,900	19	7,220 J	328	5.6	--	24	764 J	1.2 U	1.2 U	924	1.2 U	37	68
TLN-6	SS (0.0-0.5)	20-Aug-01	1.1 U	14,500 J	1.1 UJ	13	211	11	1.1	40,400	171	--	32	399 J	51,400 J	534	9,490	566 J	58	--	177	1,340 J	1.2	1.7	871 J	1.1 U	57	1,920
TLS-1	SS (0.0-0.5)	5-Sep-01	1.1 U	11,700	1 UJ	2.8	97	6.6 J	0.53 U	18,000	61 J	--	33	519	35,600	261 J	12,700	430	7.8	--	148 J	530 U	1.1	1 U	655	2.1 U	46	1,370
TLS-10	SS (0.0-0.5)	21-Aug-01	1 U	17,800	5.7 UJ	1.1	109	0.57 U	0.57 U	16,200 J	28	--	24	137	34,800	33	14,400	382	32	--	47 J	570 U	1.1 U	1.1 U	1,550	2.3 U	62	156 J
TLS-10	SB (8-10)	21-Aug-01	1.4 U	4,560	1.5 UJ	5.2	91	0.76 U	0.76 U	10,600 J	14	--	7.6 U	35	9,820	50	3,380	119	14	--	13 J	760 U	1.5 U	1.5 U	1,380	1.5 U	24	52 J
TLS-11	SS (0.0-0.5)	7-Sep-01	1.1 U	17,800	1.1 UJ	5	199	2.8 J	0.56 U	10,700	116	--	26	263	43,700	212 J	19,500	483	44	--	85 J	1,620	1.1	1.1 U	764	2.2 U	74	1,090
TLS-2	SS (0.0-0.5)	7-Sep-01	4.1 U	12,100	1 UJ	2.7	94	0.58 J	0.53 U	15,500	31	--	18	156	34,300	58 J	10,800	356	14	--	44 J	530 U	1 U	1 U	986	2.1 U	56	204
TLS-2	SB (6-8)	7-Sep-01	1.6 U	1,360	1.7 UJ	8	68	0.83 UJ	0.83 U	1,440	8.3	--	8.3 U	27	6,550 J	4.8	830 U	14	3.2	--	9 J	830 U	1.7 U	1.7 U	830 U	1.7 U	12	23
TLS-3	SS (0.0-0.5)	21-Aug-01	1 U	15,900	5.4 UJ	4	451	0.54 U	1.4	19,100 J	57	--	24	253	45,700	74	13,300	625	77	--	59 J	666	1.1 U	1.1 U	3,080	1.1 U	68	270 J
TLS-4	SS (0.0-0.5)	7-Sep-01	1 U	18,200	1 UJ	7.8	769	2.8 J	4.3	18,500	101	--	41	954	82,700	423 J	11,900	614	712	--	158 J	1,490	1.4	2.2	2,460	1 U	70	2,100
TLS-4	SB (8-10)	7-Sep-01	1.6 U	27,700	1.6 UJ	5.2	337	2.6 J	0.79 U	3,700	56	--	23	150	28,600	145 J	5,160	171	85	--	50 J	790 U	1.6 U	1.6 U	12,400	4.8 U	22	238
TLS-5	SS (0.0-0.5)	21-Aug-01	1 U	20,000 J	2.2 UJ	13	1,160	3.5	15	16,900	168	--	38	1,850	182,000	356	12,300	899	461	--	195	1,060	5.2	3.5	1,390 J	3.3 U	68	1,100
TLS-5	SB (8-10)	21-Aug-01	1.5 U	1,220 J	1.5 UJ	1.5	83	0.76 U	0.76 U	930 J	23	--	7.6 U	476	10,900	61	760 U	65	170	--	38	760 U	1.5 U	1.5 U	760 U	1.5 U	7.6 U	173
TLS-6	SS (0.0-0.5)	21-Aug-01	1.1 U	14,700	16 J	23	249	0.76	42	16,600 J	169	--	23	956	106,000	1,660	5,750	843	144	--	169 J	1,580	2.6	5.2	745	2.2 U	249	2,350 J
TLS-6	SB (3-5)	21-Aug-01	1.2 U	452 J	2.4 J	1.2 U	50	0.6 U	0.6 U	600 U	6.5	--	6 U	33	3,380	4,780	600 U	27	116	--	4.8 U	600 U	1.2 U	1.2 U	1,100	1.2 U	6 U	12
TLS-7	SS (0.0-0.5)	21-Aug-01	1.1 U	14,900	1.2 UJ	26	3,600	0.64	3.4	26,000 J	107	--	28	316	175,000	148	12,300	1,380	161	--	80 J	765	5	1.2 U	796	2.3 U	60	815 J
TLS-8	SS (0.0-0.5)	7-Sep-01	1 U	10,500	1.1 UJ	6.9	221	1.9 J	1	11,700	68	--	25	355	75,300	259 J	9,480	570	75	--	108 J	810	1.4	1.1	540 U	1.1 U	58	854
TLS-8	SB (6-8)	7-Sep-01	1.3 U	13,000	1.3 UJ	5.2	234	0.64 UJ	0.64 U	1,480	21	--	7.9	29	20,100	40 J	4,030	174	2.3	--	17 J	1,660	1.3 U	2.2	2,110	1.3 U	32	79
TLS-9	SS (0.0-0.5)	21-Aug-01	1 U	6,100	1.1 UJ	1.7	335	0.55 U	0.58	13,300 J	15	--	8.4	125	13,200	54	4,520	172	77	--	30 J	550 U	1.1 U	1.1	550 U	1.1 U	55	290 J
WWT-1A	SS (0.0-0.5)	19-Jul-01	1.1 U	10,500 J	1.2 UJ	5.8 J	362	0.58 UJ	0.58 U	17,300	25	--	9.4	84 J	21,300 J	97	6,320	269	410	--	18	1,220 J	1.2 U	1.2 U	1,070	1.8 U	53	136
WWT-2	SS (0.0-0.5)	23-Aug-01	1 U	11,800	1 UJ	6.8	542 J	0.52 U	0.62	9,120	26	--	13	102	21,700	70	7,020	292	146	--	29	722	1 U	1 U	787	1 U	51	156 J
WWT-3	SS (0.0-0.5)	23-Aug-01	1.1 U	17,200	5.4 UJ	3.8	3,280 J	0.54 U	0.54 U	18,900	35	--	22	123	32,300	66	13,700	432	197	--	41	570	1.1 U	1.1 U	1,690	1.1 U	73	316 J

Notes:

SS = Surface soil (0 to 2 ft bgs)
SB = Subsurface soil (2 to 10 ft bgs)
mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; MDL presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables

Table A-1.2
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Polychlorinated Biphenyls
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Polychlorinated Biphenyls (mg/kg)		Total PCBs (mg/kg)
			Aroclor 1254	Aroclor 1260	
12K-B1	SS (0.0-0.5)	6-Sep-01	2.1 J	0.02 U	2.11
12K-B1	SS (0.5-2)	6-Sep-01	0.02 U	0.02 U	0.02
12K-B2	SS (0.0-0.5)	6-Sep-01	0.02 U	0.02 U	0.02
12K-B2	SS (0.5-2)	6-Sep-01	0.021 U	0.021 U	0.021
150K-1	SS (0.0-0.5)	10-Sep-01	0.663	0.02 U	0.673
150K-1	SS (0.5-2)	10-Sep-01	0.0459	0.019 U	0.0554
230-B1	SS (0.0-0.5)	2-Oct-01	0.022 U	0.022 U	0.022
230-B1	SB (4-6)	2-Oct-01	0.022 U	0.022 U	0.022
230-B10	SS (0.0-0.5)	30-Aug-01	7.43 J	0.026 U	7.443
230-B10	SS (1.5-2)	30-Aug-01	0.76 J	0.022 U	0.771
230-B11	SS (0.0-0.5)	30-Aug-01	2.72	0.02 U	2.73
230-B11	SS (1.5-2)	30-Aug-01	0.188	0.02 U	0.198
230-B2	SS (0.0-0.5)	30-Aug-01	4.04 J	0.021 U	4.0505
230-B2	SS (1.5-2)	30-Aug-01	0.018 U	0.018 U	0.018
230-B3	SS (0.0-0.5)	30-Aug-01	5.82 J	0.02 U	5.83
230-B3	SS (1.5-2)	30-Aug-01	0.0653 J	0.02 U	0.0753
230-B4	SS (0.0-0.5)	30-Aug-01	28.8 J	0.019 U	28.8095
230-B4	SS (1.5-2)	30-Aug-01	0.135	0.02 U	0.145
230-B5	SS (0.0-0.5)	13-Sep-01	4.23 J	0.018 U	4.239
230-B5	SS (1.5-2)	13-Sep-01	0.02 U	0.02 U	0.02
230-B6	SS (0.0-0.5)	22-Aug-01	1.76 J	0.019 UJ	1.7695
230-B6	SS (1.5-2)	22-Aug-01	0.019 U	0.019 U	0.019
230-B7	SS (0.0-0.5)	22-Aug-01	5.99	3.66	9.65
230-B7	SS (1.5-2)	22-Aug-01	0.019 U	0.019 U	0.019
230-B7 DUP	SS (1.5-2)	22-Aug-01	0.019 U	0.019 U	0.019
230-B8	SS (1.5-2)	22-Aug-01	0.958	0.02 U	0.968
230-B9	SS (0.0-0.5)	22-Aug-01	0.018 U	0.578	0.587
230-B9 DUP	SS (0.0-0.5)	22-Aug-01	0.018 U	0.999	1.008
230-B9	SS (1.5-2)	22-Aug-01	0.0256	0.018 U	0.0346
231-B1	SS (0.0-0.5)	22-Aug-01	2.64 J	0.02 U	2.65
231-B10	SS (0.0-0.5)	22-Aug-01	0.224	0.019 U	0.2335
231-B11	SS (0.0-0.5)	19-Sep-01	0.038 U	0.332	0.351
231-B11	SB (8-10)	19-Sep-01	0.144 J	0.02 U	0.154
231-B12	SS (0.0-0.5)	17-Sep-01	2.51	0.18 U	2.6
231-B13	SS (0.0-0.5)	27-Sep-01	10.8 J	0.02 U	10.81
231-B13	SB (8-10)	27-Sep-01	0.0534	0.02 U	0.0634
231-B14	SS (0.0-0.5)	19-Sep-01	0.54 J	0.019 U	0.5495
231-B2	SS (0.0-0.5)	22-Aug-01	2.98 J	0.019 U	2.9895
231-B2	SS (0.5-2)	22-Aug-01	1.25 J	0.018 U	1.259
231-B3	SS (0.0-0.5)	22-Aug-01	11.9 J	0.02 U	11.91
231-B4	SS (0.0-0.5)	27-Sep-01	0.142	0.02 U	0.152
231-B4	SB (6-8)	27-Sep-01	0.02 U	0.02 U	0.02
231-B5	SS (0.5-2)	19-Sep-01	0.019 U	0.019 U	0.019
231-B6	SS (0.0-0.5)	27-Sep-01	0.02 U	0.02 U	0.02
231-B6	SB (4-6)	27-Sep-01	43.2 J	0.02 U	43.21
231-B7	SS (0.0-0.5)	22-Aug-01	0.737 J	0.022 U	0.748
231-B7 DUP	SS (0.0-0.5)	22-Aug-01	1.98 J	0.022 U	1.991
231-B8	SS (0.0-0.5)	27-Sep-01	7.88 J	0.043 UJ	7.9015
231-B8	SB (8-10)	27-Sep-01	0.082 U	0.082 U	0.082
231-B9	SS (0.0-0.5)	27-Sep-01	0.026 U	5.14 J	5.153
231-B9	SS (0.5-2)	27-Sep-01	0.024 U	0.024 U	0.024
240-1	SS (0.0-0.5)	1-Oct-01	12.8	0.022 U	12.811
240-1	SB (8-10)	1-Oct-01	0.02 U	0.02 U	0.02
5K-B1	SS (0.0-0.5)	1-Oct-01	0.0832 J	0.02 U	0.0932
5K-B2	SS (0.0-0.5)	31-Aug-01	16.3	0.017 U	16.3085
5K-B2	SB (8-10)	31-Aug-01	0.0952	0.021 U	0.1057

ATTACHMENT A
Supplemental Data Tables

Table A-1.2
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Polychlorinated Biphenyls
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Polychlorinated Biphenyls (mg/kg)		Total PCBs (mg/kg)
			Aroclor 1254	Aroclor 1260	
5K-B3	SS (0.0-0.5)	26-Sep-01	6.68	0.019 U	6.6895
5K-B4	SS (0.0-0.5)	1-Oct-01	1.56 J	0.02 U	1.57
5K-B4	SB (4-6)	1-Oct-01	0.217	0.023 U	0.2285
5K-B5	SS (0.0-0.5)	26-Sep-01	0.02 U	0.02 U	0.02
5K-B5	SB (4-6)	26-Sep-01	0.196	0.02 U	0.206
5K-B5 DUP	SB (4-6)	26-Sep-01	0.164	0.021 U	0.1745
AB-1	SS (0.0-0.5)	4-Sep-01	1.7 J	0.02 U	1.71
AB-2	SS (0.0-0.5)	4-Sep-01	1.36 J	0.02 U	1.37
AB-2	SS (0.5-2)	4-Sep-01	2.32 J	0.022 U	2.331
ADN-1	SS (0.0-0.5)	5-Sep-01	0.02 U	0.02 U	0.02
ADN-1	SB (8-10)	5-Sep-01	0.026 U	0.026 U	0.026
ADN-1 DUP	SB (8-10)	5-Sep-01	0.02 U	0.02 U	0.02
ADN-2	SS (0.0-0.5)	5-Sep-01	0.0898	0.02 U	0.0998
ADS-1	SS (0.0-0.5)	17-Jul-01	0.018 U	0.0838	0.0928
ADS-10	SS (0.0-0.5)	18-Jul-01	0.855	0.381	1.236
ADS-10	SB (4-6)	18-Jul-01	0.024 U	0.024 U	0.024
ADS-101	SS (0-1)	5-Dec-06	0.018 U	0.0078 U	0.0129
ADS-101	SS (1-3)	5-Dec-06	0.018 U	0.0076 U	0.0128
ADS-102	SS (0-1.5)	6-Dec-06	0.017 U	0.0075 U	0.01225
ADS-102	SB (7-8)	6-Dec-06	0.019 U	0.0081 U	0.01355
ADS-11	SS (0.0-0.5)	18-Jul-01	0.391	0.216	0.607
ADS-12	SS (0.0-0.5)	18-Jul-01	0.176	0.121	0.297
ADS-12	SS (0.5-2)	18-Jul-01	0.023 U	0.023 U	0.023
ADS-2	SS (0.0-0.5)	18-Jul-01	0.02 U	0.02 U	0.02
ADS-2 DUP	SS (0.0-0.5)	18-Jul-01	0.019 U	0.019 U	0.019
ADS-2	SB (4-6)	18-Jul-01	0.02 U	0.02 U	0.02
ADS-3	SS (0.0-0.5)	18-Jul-01	0.018 U	0.018 U	0.018
ADS-4	SS (0.0-0.5)	18-Jul-01	0.018 U	0.594	0.603
ADS-5	SS (0.0-0.5)	27-Sep-01	1.89 J	0.02 U	1.9
ADS-5	SB (4-6)	27-Sep-01	0.0243	0.02 U	0.0343
ADS-5 DUP	SB (4-6)	27-Sep-01	0.02 U	0.02 U	0.02
ADS-6	SS (0.0-0.5)	18-Jul-01	0.02 U	1.38 J	1.39
ADS-6	SS (0.5-2)	18-Jul-01	0.019 U	0.0715 J	0.081
ADS-7	SS (0.0-0.5)	17-Jul-01	0.018 U	0.018 U	0.018
ADS-8	SS (0.0-0.5)	18-Jul-01	0.02 U	0.02 U	0.02
ADS-8	SB (4-6)	18-Jul-01	0.021 U	0.021 U	0.021
ADS-9	SS (0.0-0.5)	18-Jul-01	0.021 U	0.021 U	0.021
BT-B1	SS (0.0-0.5)	18-Sep-01	0.019 U	0.019 U	0.019
BT-B2	SS (0.0-0.5)	18-Sep-01	0.022 U	0.022 U	0.022
BT-B2	SS (0.5-2)	18-Sep-01	0.02 U	0.02 U	0.02
BT-B3	SS (0.0-0.5)	18-Sep-01	0.661 J	0.017 U	0.6695
BT-B4	SS (0.0-0.5)	30-Aug-01	0.512 J	0.018 U	0.521
BT-B4	SS (0.5-2)	30-Aug-01	0.019 U	0.019 U	0.019
BT-B5	SS (0.0-0.5)	18-Sep-01	4.52 J	0.02 U	4.53
BT-B5 DUP	SS (0.0-0.5)	18-Jul-01	4.96 J	0.019 U	4.9695
BT-B6	SS (0.0-0.5)	17-Sep-01	0.649 J	0.019 U	0.6585
BT-B6	SS (0.5-2)	17-Sep-01	0.299 J	0.023 U	0.3105
CF-1	SS (0.0-0.5)	31-Aug-01	0.0351	0.018 U	0.0441
CF-1	SB (2-4)	31-Aug-01	0.019 U	0.019 U	0.019
CF-1 DUP	SB (2-4)	31-Aug-01	0.018 U	0.018 U	0.018
CF-5	SS (0.0-0.5)	28-Aug-01	0.019 U	0.019 U	0.019
CF-5	SB (4-6)	28-Aug-01	0.187	0.021 U	0.1975
CF-6	SS (0.0-0.5)	18-Sep-01	0.0403	0.021 U	0.0508
CF-6 DUP	SS (0.0-0.5)	18-Sep-01	0.021 U	0.276	0.2865
CF-7	SS (0.0-0.5)	28-Aug-01	1.03	0.021 U	1.0405
CF-7	SB (4-6)	28-Aug-01	0.546 J	0.02 U	0.556

ATTACHMENT A
Supplemental Data Tables

Table A-1.2
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Polychlorinated Biphenyls
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Polychlorinated Biphenyls (mg/kg)		Total PCBs (mg/kg)
			Aroclor 1254	Aroclor 1260	
CF-8	SS (0.0-0.5)	28-Aug-01	0.567 J	0.021 U	0.5775
CF-9	SS (0.0-0.5)	31-Aug-01	0.0955	0.019 U	0.105
CF-9	SS (0.5-2)	31-Aug-01	0.018 U	0.018 U	0.018
DC-B12	SS (0.0-0.5)	3-Oct-01	0.699	0.018 U	0.708
DC-B12	SB (2-4)	3-Oct-01	0.584	0.019 U	0.5935
DC-SED1	SS (0.0-0.5)	20-Sep-01	13.4 J	0.04 UJ	13.42
DC-SED2	SS (0.0-0.5)	20-Sep-01	18.5 J	0.043 U	18.5215
DC-SED3	SS (0.0-0.5)	20-Sep-01	11.1 J	0.074 UJ	11.137
DC-SS1	SS (0.0-0.5)	18-Sep-01	14.4 J	0.018 U	14.409
DC-SS11	SS (0.0-0.5)	17-Sep-01	0.458	0.017 U	0.4665
DC-SS13	SS (0.0-0.5)	17-Sep-01	0.385 J	0.018 U	0.394
DC-SS15	SS (0.0-0.5)	17-Sep-01	2.39 J	0.11 U	2.445
DC-SS17	SS (0.0-0.5)	17-Sep-01	5.4 J	0.02 U	5.41
DC-SS18	SS (0.0-0.5)	17-Sep-01	0.669 J	0.02 U	0.679
DC-SS2	SS (0.0-0.5)	17-Sep-01	3.17 J	0.018 U	3.179
DC-SS3	SS (0.0-0.5)	17-Sep-01	4.7 J	0.021 U	4.7105
DC-SS6	SS (0.0-0.5)	17-Sep-01	8.38 J	0.9 U	8.83
DC-SS7	SS (0.0-0.5)	17-Sep-01	2.25 J	0.094 U	2.297
DC-SS9	SS (0.0-0.5)	17-Sep-01	1.46 J	0.042 U	1.481
DSP-1	SS (0.0-0.5)	19-Nov-01	4.08	0.019 U	4.0895
DSP-1	SB (4-6)	19-Nov-01	0.021 U	0.021 U	0.021
DSP-2	SS (0.0-0.5)	4-Sep-01	0.019 U	0.019 U	0.019
DSP-3	SS (0.0-0.5)	4-Sep-01	0.295	0.139	0.434
DSP-3	SB (2-4)	4-Sep-01	0.021 U	0.021 U	0.021
DSP-4	SS (0.0-0.5)	26-Sep-01	0.13	0.145	0.275
DSP-4	SB (4-6)	26-Sep-01	0.025 U	0.025 U	0.025
ESR-1	SS (0-1)	4-Sep-01	0.129	0.018 U	0.138
ESR-1	SB (4-6)	4-Sep-01	0.0366	0.022 U	0.0476
HB-102A	SS (0-0)	13-Mar-07	0.028 U	0.012 U	0.02
HB-102B	SS (0-0)	14-Mar-07	0.019 U	0.0082 U	0.0136
HB-102C	SS (0-0)	14-Mar-07	0.018 U	0.0075 U	0.01275
HB-105E	SS (0-0)	8-Feb-07	0.019 U	0.008 U	0.0135
HB-1A	SB (6.75-6.75)	18-Apr-02	0.03 U	0.03 U	0.03
HB-3A	SB (5.25-5.25)	17-Apr-02	0.051 U	0.051 U	0.051
HB-3A DUP	SB (5.25-5.25)	17-Apr-02	0.045 U	0.045 U	0.045
HB-3B	SB (4.5-4.5)	17-Apr-02	0.02 U	0.02 U	0.02
HB-3C	SB (4.5-4.5)	18-Apr-02	0.02 U	0.02 U	0.02
HB-3D	SB (4.5-4.5)	18-Apr-02	0.02 U	0.02 U	0.02
HB-4A	SB (5.33-5.33)	19-Apr-02	0.02 U	0.02 U	0.02
HB-5A	SB (3-3)	22-Apr-02	0.0719	0.021 U	0.0824
HB-7A	SB (5-5)	19-Apr-02	0.0654	0.021 U	0.0759
HB-8A	SB (3-3)	23-Apr-02	0.02 U	0.02 U	0.02
HB-8B	SB (4.83-4.83)	23-Apr-02	0.02 U	0.02 U	0.02
HB-8C	SB (5.5-5.5)	23-Apr-02	0.021 U	0.021 U	0.021
HB-9A	SB (4.75-4.75)	24-Apr-02	0.0569	0.021 U	0.0674
HF-B1	SS (0.0-0.5)	10-Sep-01	0.0433	0.021 U	0.0538
HF-B1	SB (8-10)	10-Sep-01	0.06 U	0.06 U	0.06
HF-B2	SS (0.0-0.5)	4-Sep-01	0.017 U	0.017 U	0.017
HF-B2 DUP	SS (0.0-0.5)	4-Sep-01	0.018 U	0.0272	0.0362
HF-B2	SB (4-6)	4-Sep-01	0.019 U	0.03	0.0395
HF-B3	SS (0.0-0.5)	2-Oct-01	0.02 U	0.02 U	0.02
HF-B3	SB (8-10)	2-Oct-01	2.6 J	0.019 U	2.6095
IB-1	SS (0-2)	8-Apr-02	0.019 U	0.019 U	0.019
IB-1	SB (4-6)	8-Apr-02	0.019 U	0.019 U	0.019
IB-2	SB (4-6)	8-Apr-02	0.02 U	0.02 U	0.02
IB-3	SB (4-6)	8-Apr-02	1.04	0.021 U	1.0505

ATTACHMENT A
Supplemental Data Tables

Table A-1.2
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Polychlorinated Biphenyls
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Polychlorinated Biphenyls (mg/kg)		Total PCBs (mg/kg)
			Aroclor 1254	Aroclor 1260	
IB-3	SB (8-10)	8-Apr-02	0.022 U	0.022 U	0.022
LB-101	SS (0-1)	6-Dec-06	0.017 U	0.0073 U	0.01215
LB-101	SS (1-3)	6-Dec-06	0.12 U	0.049 U	0.0845
LB-102	SS (0-3)	6-Dec-06	0.017 U	0.0074 U	0.0122
LB-102	SS (1-3)	6-Dec-06	5.99	0.0075 U	5.99375
LB-103	SS (0-1)	6-Dec-06	0.017 U	0.0072 U	0.0121
LB-103	SB (5-7)	6-Dec-06	0.019 U	0.0082 U	0.0136
LHP-101	SS (0-1)	4-Dec-06	0.018 U	0.0587	0.0677
LHP-101	SB (5-8)	4-Dec-06	0.022 U	0.0092 U	0.0156
LHP-102	SS (0-1)	5-Dec-06	0.018 U	0.243	0.252
LHP-103	SS (0-1)	5-Dec-06	0.018 U	0.0075 U	0.01275
LHP-103	SS (1-3)	5-Dec-06	0.019 U	0.0082 U	0.0136
LHP-104	SS (0-1)	5-Dec-06	0.017 U	0.0071 U	0.01205
LHP-104	SB (7-9)	5-Dec-06	0.018 U	0.0078 U	0.0129
LHP-105	SS (0-1)	5-Dec-06	0.629 J	0.21 J	0.839
LHP-105 DUP	SS (0-1)	5-Dec-06	0.016 UJ	0.007 UJ	0.0115
LHP-105	SS (1-3)	5-Dec-06	1.85	0.007 U	1.8535
LHP-106	SS (0-1)	4-Dec-06	0.016 U	0.007 U	0.0115
LHP-106	SS (1-3)	4-Dec-06	0.047 U	0.02 U	0.0335
LHP-107	SS (0-1)	5-Dec-06	0.017 U	0.0071 U	0.01205
LHP-107	SB (5-7)	5-Dec-06	0.018 U	0.0076 U	0.0128
LHP-108	SS (0-1)	6-Dec-06	0.018 U	0.0075 U	0.01275
LHP-108	SB (3-7)	6-Dec-06	0.019 U	0.0081 U	0.01355
LHP-109	SS (0-1)	6-Dec-06	0.848	0.349	1.197
LHP-109	SB (7-9)	6-Dec-06	0.022 U	0.0092 U	0.0156
LHP-110	SS (0-1)	4-Dec-06	0.128	0.0856	0.2136
LHP-111	SS (0-1)	4-Dec-06	0.017 U	0.0074 U	0.0122
LHP-112	SS (0-1)	4-Dec-06	0.018 U	0.0075 U	0.01275
LHP-113	SS (0-1)	4-Dec-06	1.2	0.0071 U	1.20355
LHP-114	SS (0-1)	4-Dec-06	0.017 U	0.162	0.1705
LHP-115	SS (0-1)	4-Dec-06	0.016 U	0.0069 U	0.01145
LHP-116	SS (0-1)	4-Dec-06	0.449	0.0076 U	0.4528
LHP-117	SS (0-1)	4-Dec-06	0.269	0.0078 U	0.2729
LHP-118	SS (0-1)	4-Dec-06	0.018 U	0.733	0.742
LHP-119	SS (0-1)	4-Dec-06	0.018 U	0.0077 U	0.01285
LHP-120	SS (0-1)	4-Dec-06	0.02 U	0.0086 U	0.0143
LHP-121	SS (0-1)	6-Dec-06	0.117	0.0723	0.1893
LHP-122	SS (0-1)	6-Dec-06	0.017 UJ	0.194 J	0.2025
LHP-123	SS (0-1)	4-Dec-06	0.018 U	0.0692	0.0782
LHP-124	SS (0.5-2)	27-Oct-06	0.0772	0.0078 U	0.0811
LHP-124	SB (2-4)	27-Oct-06	0.019 U	0.0079 U	0.01345
LHP-125	SS (0.5-2)	27-Oct-06	0.018 U	0.0925	0.1015
LHP-125	SB (4-6)	27-Oct-06	0.017 U	0.0074 U	0.0122
LHP-126	SB (2-4)	26-Oct-06	0.017 U	0.0074 U	0.0122
LHP-126	SB (8-10)	26-Oct-06	0.02 U	0.0083 U	0.01415
LHP-127	SS (0-1)	6-Dec-06	0.05 U	0.021 U	0.0355
LHP-127	SB (3-5)	6-Dec-06	0.049 U	0.021 U	0.035
LHP-128	SS (0-1)	6-Dec-06	0.045 U	0.019 U	0.032
LHP-128 DUP	SS (0-1)	6-Dec-06	0.045 U	0.019 U	0.032
LP-1	SS (0.0-0.5)	27-Aug-01	0.0834	0.018 U	0.0924
LP-10	SS (0.0-0.5)	27-Aug-01	1.12 J	0.02 U	1.13
LP-10	SS (0.5-2)	27-Aug-01	0.02 U	0.02 U	0.02
LP-11	SS (0.0-0.5)	27-Aug-01	0.574	0.02 U	0.584
LP-12	SS (0.0-0.5)	27-Aug-01	0.157	0.018 U	0.166
LP-12	SB (4-6)	27-Aug-01	0.0339	0.018 U	0.0429
LP-13	SS (0.0-0.5)	24-Aug-01	0.415	0.021 U	0.4255

ATTACHMENT A
Supplemental Data Tables

Table A-1.2
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Polychlorinated Biphenyls
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Polychlorinated Biphenyls (mg/kg)		Total PCBs (mg/kg)
			Aroclor 1254	Aroclor 1260	
LP-14	SS (0.0-0.5)	24-Aug-01	0.019 U	0.0784	0.0879
LP-14	SS (0.5-2)	24-Aug-01	0.3	0.02 U	0.31
LP-15	SS (0.0-0.5)	24-Aug-01	0.478	0.021 U	0.4885
LP-16	SS (0.0-0.5)	27-Aug-01	0.75	0.018 U	0.759
LP-16	SS (0.5-2)	27-Aug-01	0.0724	0.018 U	0.0814
LP-2	SS (0.0-0.5)	28-Aug-01	0.517 J	0.021 U	0.5275
LP-2	SS (0.5-2)	28-Aug-01	1.09 J	0.022 U	1.101
LP-3	SS (0.0-0.5)	27-Aug-01	0.163	0.018 U	0.172
LP-4	SS (0.0-0.5)	21-Aug-01	0.019 U	0.019 U	0.019
LP-4	SS (0.5-2)	21-Aug-01	0.983 J	0.019 U	0.9925
LP-5	SS (0.0-0.5)	27-Aug-01	1.04	0.018 U	1.049
LP-6	SS (0.0-0.5)	27-Aug-01	1.07	0.018 U	1.079
LP-6	SB (4-6)	27-Aug-01	0.02 U	0.02 U	0.02
LP-7	SS (0.0-0.5)	24-Aug-01	0.731	0.021 U	0.7415
LP-8	SS (0.0-0.5)	24-Aug-01	0.02 U	0.02 U	0.02
LP-8 DUP	SS (0.0-0.5)	24-Aug-01	0.021 U	0.021 U	0.021
LP-9	SS (0.0-0.5)	24-Aug-01	0.0892	0.018 U	0.0982
MW-26S	SB (8-10)	26-Oct-06	0.021 U	0.0089 U	0.01495
MW-6D	SS (0-2)	8-Nov-06	0.018 U	0.0075 U	0.01275
PCA-1	SS (0.0-0.5)	17-Jul-01	0.018 U	0.0969	0.1059
PCA-1	SB (4-6)	17-Jul-01	0.02 U	0.02 U	0.02
PCA-2	SS (0.0-0.5)	17-Jul-01	4	0.018 U	4.009
PCA-3	SS (0.0-0.5)	13-Sep-01	0.019 U	0.381	0.3905
PCA-3	SB (4-6)	13-Sep-01	0.02 U	0.02 U	0.02
PCA-4	SS (0.0-0.5)	13-Sep-01	0.831 J	0.019 U	0.8405
PCA-4 DUP	SS (0.0-0.5)	13-Sep-01	0.546 J	0.018 U	0.555
PCA-4	SB (4-6)	13-Sep-01	0.023 UJ	0.023 UJ	0.023
PCA-5	SS (0.0-0.5)	7-Sep-01	0.418 J	0.021 U	0.4285
PCA-5	SS (0.5-2)	7-Sep-01	0.021 U	0.021 U	0.021
PCA-6	SS (0.0-0.5)	7-Sep-01	0.019 U	0.019 U	0.019
RR-1	SS (0.0-0.5)	22-Aug-01	0.397	0.018 U	0.406
RR-10	SS (0.0-0.5)	12-Oct-01	0.019 U	0.125	0.1345
RR-11	SS (0.0-0.5)	12-Oct-01	0.02 U	0.02 U	0.02
RR-11 DUP	SS (0.0-0.5)	12-Oct-01	0.019 U	0.019 U	0.019
RR-12	SS (0.0-0.5)	12-Oct-01	0.019 U	0.019 U	0.019
RR-2	SS (0.0-0.5)	13-Sep-01	0.0236 J	0.019 UJ	0.0331
RR-2	SB (8-10)	13-Sep-01	0.026 U	0.378	0.391
RR-3	SS (0.0-0.5)	13-Sep-01	0.888 J	0.019 U	0.8975
RR-4	SS (0.0-0.5)	13-Sep-01	0.77	0.019 U	0.7795
RR-4	SB (6-8)	13-Sep-01	0.171 J	0.02 U	0.181
RR-5	SS (0.0-0.5)	10-Sep-01	0.812	0.016 U	0.82
RR-6	SS (0.0-0.5)	10-Sep-01	0.0964	0.087	0.1834
RR-6	SB (8-10)	10-Sep-01	0.0477	0.019 U	0.0572
RR-7	SS (0.0-0.5)	10-Sep-01	0.152	0.129	0.281
RR-8	SS (0.0-0.5)	26-Sep-01	0.134	0.137	0.271
RR-8	SB (6-8)	26-Sep-01	0.033 U	0.033 U	0.033
RR-9	SS (0.0-0.5)	12-Oct-01	0.018 U	0.018 U	0.018
SILO-B1	SS (0.0-0.5)	6-Sep-01	1.44 J	0.021 U	1.4505
SILO-B1	SB (6-8)	6-Sep-01	0.074 U	0.074 U	0.074
SILO-B1 DUP	SB (6-8)	6-Sep-01	0.076 U	0.076 U	0.076
SILO-B2	SS (0.0-0.5)	6-Sep-01	0.02 U	0.02 U	0.02
SILO-B3	SS (0.0-0.5)	6-Sep-01	15.2	0.02 U	15.21
SILO-B3	SB (6-8)	6-Sep-01	0.02 U	0.02 U	0.02
SILO-B4	SS (0.0-0.5)	6-Sep-01	2.13	0.021 U	2.1405
SPR-1	SS (0.0-0.5)	5-Sep-01	0.0527	0.02 U	0.0627
SPR-1	SB (8-10)	5-Sep-01	0.0421	0.025 U	0.0546

ATTACHMENT A
Supplemental Data Tables

Table A-1.2
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Polychlorinated Biphenyls
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Polychlorinated Biphenyls (mg/kg)		Total PCBs (mg/kg)
			Aroclor 1254	Aroclor 1260	
SPR-2A	SS (0.0-0.5)	19-Jul-01	0.021 U	1.02	1.0305
SPR-2A	SB (8-10)	19-Jul-01	0.024 U	0.024 U	0.024
SPR-2B	SS (0.0-0.5)	19-Jul-01	0.02 U	1.14	1.15
SPR-3	SS (0.0-0.5)	21-Aug-01	0.019 U	3.16 J	3.1695
SPR-3	SB (4-6)	21-Aug-01	0.02 U	0.116	0.126
SPR-4A	SS (0.0-0.5)	19-Jul-01	0.021 U	0.115	0.1255
SPR-4A	SB (8-10)	19-Jul-01	0.031 U	0.031 U	0.031
SPR-4B	SS (0.0-0.5)	23-Aug-01	0.154	0.019 U	0.1635
SPR-4B	SB (4-6)	23-Aug-01	0.021 U	0.021 U	0.021
SPR-4C	SS (0.0-0.5)	23-Aug-01	0.952	0.618	1.57
SPR-4C	SB (4-6)	23-Aug-01	0.025 U	0.025 U	0.025
SPR-5	SS (0.0-0.5)	5-Sep-01	0.018 U	0.15	0.159
SPR-5	SB (2-4)	5-Sep-01	0.021 U	0.021 U	0.021
SPR-6	SS (0.0-0.5)	13-Sep-01	0.018 U	0.0236	0.0326
SPR-6	SS (0.5-2)	13-Sep-01	0.167 J	0.104 J	0.271
SR-1	SS (0.0-0.5)	17-Jul-01	0.018 U	0.018 U	0.018
SR-2	SS (0.0-0.5)	17-Jul-01	0.492	0.017 U	0.5005
ST-1	SS (0.0-0.5)	5-Sep-01	0.0626	0.0655	0.1281
ST-2	SS (0.0-0.5)	5-Sep-01	0.224	0.02 U	0.234
ST-3	SS (0.0-0.5)	4-Sep-01	0.018 U	0.018 U	0.018
ST-3	SB (4-6)	4-Sep-01	0.024 U	0.024 U	0.024
TES-1	SS (0-1)	5-Dec-06	0.018 U	5.39	5.399
TES-2	SS (0-1)	4-Dec-06	0.019 U	0.0083 U	0.01365
TES-3	SS (0-1)	4-Dec-06	5.59	0.0083 U	5.59415
TES-4	SS (0-1)	5-Dec-06	0.72	0.281	1.001
TLN-1	SS (0.0-0.5)	20-Aug-01	0.021 U	0.021 U	0.021
TLN-1	SS (0.5-2)	20-Aug-01	0.754 J	0.586 J	1.34
TLN-2	SS (0.0-0.5)	19-Jul-01	0.024 U	0.308	0.32
TLN-3	SS (0.0-0.5)	17-Jul-01	0.018 U	0.99	0.999
TLN-3	SB (2-4)	17-Jul-01	0.019 U	0.019 U	0.019
TLN-4	SS (0.0-0.5)	20-Aug-01	0.018 UJ	1.32 J	1.329
TLN-4 DUP	SS (0.0-0.5)	20-Aug-01	0.017 U	1.69	1.6985
TLN-5	SS (0.0-0.5)	30-Aug-01	0.158	0.103	0.261
TLN-5	SS (0.5-2)	30-Aug-01	0.018 U	1.65	1.659
TLN-5	SB (4-6)	30-Aug-01	0.018 U	0.209	0.218
TLN-6	SS (0.0-0.5)	20-Aug-01	0.019 U	0.825 J	0.8345
TLS-1	SS (0.0-0.5)	5-Sep-01	0.018 U	0.444	0.453
TLS-10	SS (0.0-0.5)	21-Aug-01	0.019 U	1.35 J	1.3595
TLS-10	SB (8-10)	21-Aug-01	0.023 U	0.023 U	0.023
TLS-11	SS (0.0-0.5)	7-Sep-01	0.382 J	0.399 J	0.781
TLS-2	SS (0.0-0.5)	7-Sep-01	0.019 U	0.2	0.2095
TLS-2	SB (6-8)	7-Sep-01	0.031 UJ	0.031 UJ	0.031
TLS-3	SS (0.0-0.5)	21-Aug-01	1.17 J	0.491 J	1.661
TLS-4	SS (0.0-0.5)	7-Sep-01	0.019 U	0.019 U	0.019
TLS-4	SB (8-10)	7-Sep-01	0.03 U	0.03 U	0.03
TLS-5	SS (0.0-0.5)	26-Sep-01	7.61	0.018 U	7.619
TLS-5	SB (8-10)	26-Sep-01	0.027 U	0.027 U	0.027
TLS-6	SS (0.0-0.5)	26-Sep-01	8.34 J	0.018 U	8.349
TLS-6	SB (3-5)	26-Sep-01	0.063 UJ	0.063 UJ	0.063
TLS-7	SS (0.0-0.5)	21-Aug-01	1.98 J	0.018 U	1.989
TLS-8	SS (0.0-0.5)	7-Sep-01	1.01 J	1.58 J	2.59
TLS-8	SB (6-8)	7-Sep-01	0.023 U	0.023 U	0.023
TLS-9	SS (0.0-0.5)	21-Aug-01	0.017 U	0.151	0.1595
WWT-1A	SS (0.0-0.5)	19-Jul-01	0.74	0.019 U	0.7495
WWT-2	SS (0.0-0.5)	23-Aug-01	1.15 J	0.019 U	1.1595
WWT-3	SS (0.0-0.5)	23-Aug-01	2.64 J	0.018 U	2.649

ATTACHMENT A
Supplemental Data Tables

Table A-1.2
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Polychlorinated Biphenyls
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Polychlorinated Biphenyls (mg/kg)		Total PCBs (mg/kg)
			Aroclor 1254	Aroclor 1260	

Notes:
Aroclors were summed and evaluated as Total PCBs. Individual Aroclors that were never detected in soil were excluded from the summation; otherwise, non-detect results were summed using one-half the methodl detection limit (MDL). For

SS = Surface soil (0 to 2 ft bgs)
SB = Subsurface soil (2 to 10 ft bgs)
mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; MDL presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables
Table A-1.3
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Pesticides
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Pesticides (mg/kg)															
			Alpha-BHC	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Alpha-Chlordane	Gamma-Chlordane	P,P'-DDD	P,P'-DDE	P,P'-DDT	Dieldrin	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Ketone	Heptachlor Epoxide	Methoxychlor
12K-B1	SS (0.0-0.5)	24-Oct-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.112 J
12K-B1	SS (0.5-2)	6-Sep-01	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
12K-B2	SS (0.0-0.5)	25-Oct-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0174
12K-B2	SS (0.5-2)	7-Sep-01	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.011 U	0.0043 U	0.011 U
150K-1	SS (0.0-0.5)	26-Oct-01	0.0039 U	0.0039 U	0.0039 U	0.0039 UJ	0.0039 U	0.0039 U	0.0477	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UJ	0.0039 U	0.0098 UJ	0.0039 U	0.0098 U
150K-1	SS (0.5-2)	8-Sep-01	0.0038 U	0.0038 U	0.0038 U	0.0038 UJ	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UJ	0.0038 U	0.0095 UJ	0.0038 U	0.0095 U
230-B1	SS (0.0-0.5)	27-Oct-01	0.0044 U	0.109 J	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0207 J	0.0078 J	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.011 U	0.0044 U	0.011 U
230-B1	SB (4-6)	12-May-02	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.011 U	0.0044 U	0.011 U
230-B10	SS (0.0-0.5)	28-Oct-01	0.0053 UJ	0.0053 UJ	0.0053 UJ	0.0053 UJ	0.0053 UJ	0.0053 UJ	0.0053 UJ	0.0053 UJ	0.0053 UJ	0.0053 UJ	0.0053 UJ	0.0053 UJ	0.0053 UJ	0.013 UJ	0.0053 UJ	0.013 UJ
230-B10	SS (1.5-2)	27-Apr-02	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.006	0.007	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.011 U	0.0046 U	0.011 U
230-B11	SS (0.0-0.5)	29-Oct-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U
230-B11	SS (1.5-2)	28-Apr-02	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0086	0.008	0.0072	0.004 U	0.004 U	0.004 U	0.004 U	0.01 U	0.004 U	0.01 U
230-B2	SS (0.0-0.5)	30-Oct-01	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0491 J	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.011 U	0.0042 U	0.011 U
230-B2	SS (1.5-2)	29-Apr-02	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.009 U	0.0036 U	0.009 U
230-B3	SS (0.0-0.5)	31-Oct-01	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.01 U	0.004 U	0.01 U
230-B3	SS (1.5-2)	30-Apr-02	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.01 U	0.004 U	0.01 U
230-B4	SS (0.0-0.5)	1-Nov-01	0.0038 UJ	0.0038 UJ	0.0038 UJ	0.0038 UJ	0.0038 UJ	0.0038 UJ	0.0038 UJ	0.0038 UJ	0.0038 UJ	0.0038 UJ	0.0038 UJ	0.0038 UJ	0.0038 UJ	0.0096 UJ	0.0038 UJ	0.0096 UJ
230-B4	SS (1.5-2)	1-May-02	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.01 U	0.004 U	0.01 U
230-B5	SS (0.0-0.5)	2-Nov-01	0.0038 U	0.0038 U	0.0038 U	0.0119	0.0038 U	0.0038 U	0.0628	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0094 U	0.0038 U	0.0094 U
230-B5	SS (1.5-2)	2-May-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U
230-B6	SS (0.0-0.5)	3-Nov-01	0.019 U	0.019 U	0.019 U	0.019 U	0.037 U	0.037 U	0.037 U	0.0277 J	0.037 U	0.019 U	0.037 U	0.037 U	0.037 U	0.037 U	0.019 U	0.074 U
230-B6	SS (1.5-2)	3-May-02	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.0075 U	0.015 U	0.015 U	0.015 U	0.015 U	0.0075 U	0.03 U
230-B7	SS (0.0-0.5)	4-Nov-01	0.041 U	0.041 U	0.041 U	0.041 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.041 U	0.082 U	0.082 U	0.082 U	0.082 U	0.041 U	0.16 U
230-B7	SS (1.5-2)	25-Apr-02	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.015 U	0.015 U	0.0077 J	0.0073 J	0.005 J	0.0077 U	0.015 U	0.015 U	0.015 U	0.015 U	0.0077 U	0.031 U
230-B7 DUP	SS (1.5-2)	26-Apr-02	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.015 U	0.015 U	0.0088 J	0.0087	0.0072 J	0.0076 U	0.015 U	0.015 U	0.015 U	0.015 U	0.0076 U	0.03 U
230-B8	SS (1.5-2)	4-May-02	0.02 U	0.02 U	0.02 U	0.02 U	0.04 U	0.04 U	0.04 U	0.0165 J	0.04 U	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.02 U	0.08 U
230-B9	SS (0.0-0.5)	4-Oct-01	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.0072 U	0.014 U	0.014 U	0.014 U	0.014 U	0.0072 U	0.029 U
230-B9 DUP	SS (0.0-0.5)	5-Oct-01	0.037 U	0.037 U	0.037 U	0.037 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.037 U	0.073 U	0.073 U	0.073 U	0.073 U	0.037 U	0.15 U
230-B9	SS (1.5-2)	5-May-02	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0018 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0018 U	0.0074 U
231-B1	SS (0.0-0.5)	5-Nov-01	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
231-B10	SS (0.0-0.5)	6-Nov-01	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0094 U	0.0037 U	0.0094 U
231-B11	SS (0.0-0.5)	7-Nov-01	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.019 U	0.0076 U	0.019 U
231-B11	SB (8-10)	13-May-02	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.005	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.01 U	0.004 U	0.01 U
231-B12	SS (0.0-0.5)	8-Nov-01	0.0037 U	0.0184	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 U
231-B13	SS (0.0-0.5)	9-Nov-01	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.01 U	0.004 U	0.112 J
231-B13	SB (8-10)	14-May-02	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 UJ	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 UJ
231-B14	SS (0.0-0.5)	10-Nov-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0096 U	0.0039 U	0.0096 U
231-B2	SS (0.0-0.5)	11-Nov-01	0.098 U	0.098 U	0.098 U	0.098 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.098 U	0.2 U	0.2 U	0.2 U	0.2 U	0.098 U	0.39 U
231-B2	SS (0.5-2)	9-Sep-01	0.037 U	0.037 U	0.037 U	0.037 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.037 U	0.074 U	0.074 U	0.074 U	0.074 U	0.037 U	0.15 U
231-B3	SS (0.0-0.5)	12-Nov-01	0.2 U	0.2 U	0.2 U	0.2 U	0.39 U	0.39 U	0.39 U	0.289 J	0.39 U	0.2 U	0.39 U	0.39 U	0.39 U	0.39 U	0.2 U	0.79 U
231-B4	SS (0.0-0.5)	13-Nov-01	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
231-B4	SB (6-8)	15-May-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U
231-B5	SS (0.5-2)	10-Sep-01	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0096 U	0.0038 U	0.0096 U
231-B6	SS (0.0-0.5)	14-Nov-01	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
231-B6	SB (4-6)	16-May-02	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0039 UJ	0.0098 UJ	0.0039 UJ	0.0098 UJ
231-B7	SS (0.0-0.5)	6-Oct-01	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.01 U	0.0042 U	0.01 U
231-B7 DUP	SS (0.0-0.5)	7-Oct-01	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.011 U	0.0044 U	0.011 U
231-B8	SS (0.0-0.5)	15-Nov-01	0.0086 UJ	0.0086 UJ	0.0086 UJ	0.0086 UJ	0.0086 UJ	0.0086 UJ	0.0086 UJ	0.0086 UJ	0.0086 UJ	0.0086 UJ	0.0086 UJ	0.0086 UJ	0.0086 UJ	0.022 UJ	0.0086 UJ	0.022 UJ
231-B8	SB (8-10)	17-May-02	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.0703	0.016 U	0.016 U	0.016 U	0.016 U	0.016 U	0.041 U	0.016 U	0.041 U
231-B9	SS (0.0-0.5)	16-Nov-01	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	1.46 J	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.013 U	0.0052 U	0.013 UJ
231-B9	SS (0.5-2)	11-Sep-01	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.047 J	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.012 U	0.0048 U	0.012 UJ
240-1	SS (0.0-0.5)	17-Nov-01	0.0046 U	0.0046 U	0.0046 UJ	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	--	0.0046 U	0.0046 U	0.012 U	0.0046 U	0.012 U
240-1	SB (8-10)	18-May-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U

ATTACHMENT A
Supplemental Data Tables
Table A-1.3
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Pesticides
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Pesticides (mg/kg)															
			Alpha-BHC	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Alpha-Chlordane	Gamma-Chlordane	P,P'-DDD	P,P'-DDE	P,P'-DDT	Dieldrin	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Ketone	Heptachlor Epoxide	Methoxychlor
5K-B1	SS (0.0-0.5)	18-Nov-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U
5K-B2	SS (0.0-0.5)	19-Nov-01	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0087 U	0.0035 U	0.0087 U
5K-B2	SB (8-10)	19-May-02	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
5K-B3	SS (0.0-0.5)	20-Nov-01	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0095 U	0.0038 U	0.0095 U
5K-B4	SS (0.0-0.5)	21-Nov-01	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
5K-B4	SB (4-6)	20-May-02	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.012 U	0.0046 U	0.012 U
5K-B5	SS (0.0-0.5)	22-Nov-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U
5K-B5	SB (4-6)	21-May-02	0.0041 U	0.0041 U	0.0041 UJ	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
5K-B5 DUP	SB (4-6)	22-May-02	0.0042 U	0.0042 U	0.0042 UJ	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.01 U	0.0042 U	0.01 U
AB-1	SS (0.0-0.5)	23-Nov-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 UJ
AB-2	SS (0.0-0.5)	24-Nov-01	0.0039 U	0.0039 U	0.0039 UJ	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UJ	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 UJ
AB-2	SS (0.5-2)	12-Sep-01	0.0045 U	0.0045 U	0.0045 UJ	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 UJ	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.011 U	0.0045 U	0.011 UJ
ADN-1	SS (0.0-0.5)	25-Nov-01	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0833	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.01 U	0.0042 U	0.01 U
ADN-1	SB (8-10)	23-May-02	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0199 J	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.013 U	0.0052 U	0.013 U
ADN-1 DUP	SB (8-10)	24-May-02	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.029 J	0.0138 J	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.01 U	0.0042 U	0.01 U
ADN-2	SS (0.0-0.5)	26-Nov-01	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.012	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
ADS-1	SS (0.0-0.5)	27-Nov-01	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00074	0.00073 U	0.02	0.0812	0.00073 U	0.0023	0.00073 U	0.00073 U	0.0018 U	0.00073 U	0.0324
ADS-10	SS (0.0-0.5)	28-Nov-01	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 UJ	0.0278 J	0.182	0.017 J	0.00079 U	0.00079 U	0.00079 U	0.002 U	0.00079 U	0.002 U
ADS-10	SB (4-6)	25-May-02	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.0214	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.0024 U	0.00094 U	0.0024 U
ADS-101	SS (0-1)	21-Mar-02	0.00029 U	0.00034 U	0.00057 U	0.00031 U	0.00042 U	0.00042 U	0.0134	0.0054	0.0036 NJ	0.00039 U	0.00041 U	0.00042 U	0.00039 U	0.00042 U	0.00043 U	0.00051 U
ADS-101	SS (1-3)	6-May-02	0.00028 U	0.00033 U	0.00056 U	0.0003 U	0.00041 U	0.00041 U	0.0173	0.0042	0.0061 J	0.00038 U	0.0004 U	0.00041 U	0.00038 U	0.00041 U	0.00042 U	0.0108
ADS-102	SS (0-1.5)	21-Apr-02	0.00027 U	0.00032 U	0.00054 U	0.0003 U	0.0004 U	0.0004 U	0.0135	0.015	0.0397	0.00037 U	0.00039 U	0.0004 U	0.00037 U	0.00041 U	0.00041 U	0.00049 U
ADS-102	SB (7-8)	26-May-02	0.0003 U	0.00035 U	0.00059 U	0.00032 U	0.00043 U	0.00043 U	0.00039 U	0.0004 U	0.00049 U	0.0004 U	0.00042 U	0.00043 U	0.0004 U	0.00044 U	0.00044 U	0.00053 U
ADS-11	SS (0.0-0.5)	29-Nov-01	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.0202 J	0.148 J	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.0019 U	0.00076 U	0.0019 U
ADS-12	SS (0.0-0.5)	30-Nov-01	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.0023	0.00078 U	0.0179	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.0019 U	0.00078 U	0.0019 U
ADS-12	SS (0.5-2)	13-Sep-01	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.0106	0.00091 U	0.0829	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.0023 U	0.00091 U	0.0023 U
ADS-2	SS (0.0-0.5)	8-Oct-01	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.18	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.002 U	0.00081 U	0.002 U
ADS-2 DUP	SS (0.0-0.5)	9-Oct-01	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.353	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.0019 U	0.00076 U	0.0019 U
ADS-2	SB (4-6)	27-May-02	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.278	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.002 U	0.00081 U	0.002 U
ADS-3	SS (0.0-0.5)	1-Dec-01	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.274	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.0018 U	0.00073 U	0.0018 U
ADS-4	SS (0.0-0.5)	2-Dec-01	0.00073 U	0.0284 J	0.00073 U	0.0207 J	0.00073 U	0.0159 J	0.0117	0.00073 U	0.181 J	0.0194 J	0.00073 U	0.00073 U	0.00073 U	0.0018 U	0.00073 U	0.0018 U
ADS-5	SS (0.0-0.5)	3-Dec-01	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.0019 U	0.00078 U	0.0019 U
ADS-5	SB (4-6)	28-May-02	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UJ	0.004 U	0.004 U	0.004 U	0.004 U	0.01 U	0.004 U	0.01 UJ
ADS-5 DUP	SB (4-6)	29-May-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UJ	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 UJ
ADS-6	SS (0.0-0.5)	4-Dec-01	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.0019 U	0.00078 U	0.0019 U
ADS-6	SS (0.5-2)	14-Sep-01	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.002 U	0.00082 U	0.002 U
ADS-7	SS (0.0-0.5)	5-Dec-01	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0018 U	0.0007 U	0.0018 U
ADS-8	SS (0.0-0.5)	6-Dec-01	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.002 U	0.00079 U	0.002 U
ADS-8	SB (4-6)	30-May-02	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.0021 U	0.00085 U	0.0021 U
ADS-9	SS (0.0-0.5)	7-Dec-01	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.114	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.0021 U	0.00085 U	0.0021 U
BT-B1	SS (0.0-0.5)	8-Dec-01	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0094 UJ	0.0038 U	0.0094 U
BT-B2	SS (0.0-0.5)	9-Dec-01	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.011 U	0.0043 U	0.011 U
BT-B2	SS (0.5-2)	15-Sep-01	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.01 UJ	0.004 U	0.01 U
BT-B3	SS (0.0-0.5)	10-Dec-01	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0375 J	0.106 J	0.115 J	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0087 UJ	0.0035 U	0.0087 U
BT-B4	SS (0.0-0.5)	11-Dec-01	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0088 U	0.0035 U	0.0088 U
BT-B4	SS (0.5-2)	16-Sep-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0097 U	0.0039 U	0.0097 U
BT-B5	SS (0.0-0.5)	10-Oct-01	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0365 J	0.0453 J	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
BT-B5 DUP	SS (0.0-0.5)	11-Oct-01	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0094 U	0.0038 U	0.0094 U
BT-B6	SS (0.0-0.5)	12-Dec-01	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0093 U	0.0037 U	0.0093 U
BT-B6	SS (0.5-2)	17-Sep-01	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0193 J	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.012 U	0.0046 U	0.012 U
CF-1	SS (0.0-0.5)	13-Dec-01	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0091 U	0.0036 U	0.0091 U
CF-1	SB (2-4)	31-May-02	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0116 J	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0094 U	0.0037 U	0.0094 U
CF-1 DUP	SB (2-4)	1-Jun-02	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0225 J	0.0037 U	0.0651 J	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 U

ATTACHMENT A
Supplemental Data Tables
Table A-1.3
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Pesticides
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Pesticides (mg/kg)															
			Alpha-BHC	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Alpha-Chlordane	Gamma-Chlordane	P,P'-DDD	P,P'-DDE	P,P'-DDT	Dieldrin	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Ketone	Heptachlor Epoxide	Methoxychlor
CF-5	SS (0.0-0.5)	14-Dec-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0097 U	0.0039 U	0.0097 U
CF-5	SB (4-6)	2-Jun-02	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0212	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.01 U	0.0042 U	0.01 U
CF-6	SS (0.0-0.5)	12-Oct-01	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.011 U	0.0043 U	0.011 U
CF-6 DUP	SS (0.0-0.5)	13-Oct-01	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0107	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.011 U	0.0043 U	0.011 U
CF-7	SS (0.0-0.5)	15-Dec-01	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0139 J	0.0435 J	0.0042 U	0.0042 UJ	0.0042 U	0.0042 U	0.01 U	0.0042 U	0.01 UJ
CF-7	SB (4-6)	3-Jun-02	0.004 U	0.004 U	0.004 U	0.004 U	0.0553 J	0.0582 J	0.004 U	0.004 U	0.0752 J	0.004 U	0.004 UJ	0.004 U	0.004 U	0.0099 U	0.004 U	0.0099 UJ
CF-8	SS (0.0-0.5)	16-Dec-01	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0093	0.0256	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
CF-9	SS (0.0-0.5)	17-Dec-01	0.0037 U	0.0159	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0055	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0094 U	0.0037 U	0.0094 U
CF-9	SS (0.5-2)	18-Sep-01	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0054	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0088 U	0.0035 U	0.0088 U
DC-B12	SS (0.0-0.5)	18-Dec-01	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0109	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.009 U	0.0036 U	0.009 U
DC-B12	SB (2-4)	4-Jun-02	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0052	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0094 U	0.0038 U	0.0094 U
DC-SED1	SS (0.0-0.5)	19-Dec-01	0.0079 UJ	0.0079 UJ	0.0079 UJ	0.0079 UJ	0.0079 UJ	0.0079 UJ	0.0079 UJ	0.0079 UJ	0.0079 UJ	0.0079 UJ	0.0079 UJ	0.0079 UJ	0.0079 UJ	0.02 UJ	0.0079 UJ	0.198 J
DC-SED2	SS (0.0-0.5)	20-Dec-01	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 UJ	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.022 U	0.0087 U	0.022 U
DC-SED3	SS (0.0-0.5)	21-Dec-01	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.037 UJ	0.015 UJ	0.037 UJ
DC-SS1	SS (0.0-0.5)	22-Dec-01	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 U
DC-SS11	SS (0.0-0.5)	23-Dec-01	0.0033 U	0.009	0.0033 U	0.0033 U	0.0033 U	0.0033 U	0.0033 U	0.0033 U	0.0033 U	0.0033 U	0.0033 U	0.0033 UJ	0.0033 U	0.0084 U	0.0033 U	0.0084 U
DC-SS13	SS (0.0-0.5)	24-Dec-01	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 UJ	0.0035 U	0.0088 U	0.0035 U	0.0088 U
DC-SS15	SS (0.0-0.5)	25-Dec-01	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0571 J	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.011 UJ	0.0043 U	0.011 U
DC-SS17	SS (0.0-0.5)	26-Dec-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 UJ	0.0039 U	0.0098 U
DC-SS18	SS (0.0-0.5)	27-Dec-01	0.004 U	0.144 J	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UJ	0.004 U	0.01 U	0.004 U	0.01 U
DC-SS2	SS (0.0-0.5)	28-Dec-01	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 U
DC-SS3	SS (0.0-0.5)	29-Dec-01	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.01 UJ	0.0042 U	0.01 U
DC-SS6	SS (0.0-0.5)	30-Dec-01	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.009 UJ	0.0036 U	0.009 U
DC-SS7	SS (0.0-0.5)	31-Dec-01	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0094 UJ	0.0038 U	0.0094 U
DC-SS9	SS (0.0-0.5)	1-Jan-02	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.01 U	0.0042 U	0.01 U
DSP-1	SS (0.0-0.5)	2-Jan-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0097 U	0.0039 U	0.0097 U
DSP-1	SB (4-6)	5-Jun-02	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.00085 U	0.0021 U	0.00085 U	0.0021 U
DSP-2	SS (0.0-0.5)	3-Jan-02	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UJ	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0095 U	0.0038 U	0.0095 U
DSP-3	SS (0.0-0.5)	4-Jan-02	0.0041 U	0.0041 U	0.0041 UJ	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 UJ	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 UJ
DSP-3	SB (2-4)	6-Jun-02	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 UJ	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.01 U	0.0042 U	0.01 U
DSP-4	SS (0.0-0.5)	5-Jan-02	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 UJ	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.011 U	0.0043 U	0.011 U
DSP-4	SB (4-6)	7-Jun-02	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.012 U	0.005 U	0.012 U
ESR-1	SS (0-1)	22-Mar-02	0.0037 U	0.0037 U	0.0037 UJ	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 UJ	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 UJ
ESR-1	SB (4-6)	8-Jun-02	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 UJ	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.011 U	0.0043 U	0.011 U
HB-102A	SS (0-0)	30-Sep-01	0.00044 U	0.00052 U	0.00088 U	0.00048 U	0.00064 U	0.00064 U	0.00058 U	0.00059 U	0.00073 U	0.0006 U	0.00063 U	0.00065 U	0.0006 U	0.00066 U	0.00066 U	0.00079 U
HB-102B	SS (0-0)	1-Oct-01	0.0003 U	0.00035 U	0.0006 U	0.00033 U	0.00044 U	0.00044 U	0.00039 U	0.00041 U	0.0005 U	0.00041 U	0.00043 U	0.00044 U	0.00041 U	0.00045 U	0.00045 U	0.00054 U
HB-102C	SS (0-0)	2-Oct-01	0.00028 U	0.00032 U	0.00055 U	0.0003 U	0.0004 U	0.0004 U	0.00036 U	0.00037 U	0.00046 U	0.00038 U	0.0004 U	0.00041 U	0.00037 U	0.00041 U	0.00041 U	0.0005 U
HB-105E	SS (0-0)	3-Oct-01	0.00029 U	0.00035 U	0.00059 U	0.00032 U	0.00043 U	0.00043 U	0.00038 U	0.0004 U	0.00049 U	0.0004 U	0.00042 U	0.00043 U	0.0004 U	0.00044 U	0.00044 U	0.00053 U
HB-1A	SB (6.75-6.75)	9-Jun-02	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.003 U	0.0012 U	0.003 U
HB-3A	SB (5.25-5.25)	10-Jun-02	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0051	0.0031	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.0051 U	0.002 U	0.0051 U
HB-3A DUP	SB (5.25-5.25)	11-Jun-02	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0106	0.0056	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0045 U	0.0018 U	0.0045 U
HB-3B	SB (4.5-4.5)	12-Jun-02	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.002 U	0.00079 U	0.002 U
HB-3C	SB (4.5-4.5)	13-Jun-02	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.002 U	0.0008 U	0.002 U
HB-3D	SB (4.5-4.5)	14-Jun-02	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.002 U	0.00079 U	0.002 U
HB-4A	SB (5.33-5.33)	15-Jun-02	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.002 U	0.00079 U	0.002 U
HB-5A	SB (3-3)	16-Jun-02	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0086	0.0075	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0021 U	0.00083 U	0.0021 U
HB-7A	SB (5-5)	17-Jun-02	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0057	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0021 U	0.00083 U	0.0021 U
HB-8A	SB (3-3)	18-Jun-02	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.0019	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.002 U	0.00081 U	0.002 U
HB-8B	SB (4.83-4.83)	19-Jun-02	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0016	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.002 U	0.0008 U	0.002 U
HB-8C	SB (5.5-5.5)	20-Jun-02	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0265	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
HB-9A	SB (4.75-4.75)	21-Jun-02	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0021 U	0.00083 U	0.0021 U
HF-B1	SS (0.0-0.5)	6-Jan-02	0.0041 U	0.0041 U	0.0041 U	0.0041 UJ	0.0041 U	0.0041 U	0.0135	0.0041 U	0.0109	0.0041 U	0.0041 U	0.0041 UJ	0.0041 U	0.01 UJ	0.0041 U	0.01 U
HF-B1	SB (8-10)	22-Jun-02	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 U	0.03 UJ	0.012 U	0.03 U

ATTACHMENT A
Supplemental Data Tables
Table A-1.3
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Pesticides
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Pesticides (mg/kg)															
			Alpha-BHC	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Alpha-Chlordane	Gamma-Chlordane	P,P'-DDD	P,P'-DDE	P,P'-DDT	Dieldrin	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Ketone	Heptachlor Epoxide	Methoxychlor
HF-B2	SS (0.0-0.5)	14-Oct-01	0.0037 U	0.0037 U	0.0037 UJ	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 UJ	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 UJ
HF-B2 DUP	SS (0.0-0.5)	15-Oct-01	0.0035 U	0.0035 U	0.0035 UJ	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 UJ	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0086 U	0.0035 U	0.0086 UJ
HF-B2	SB (4-6)	23-Jun-02	0.0038 U	0.0038 U	0.0038 UJ	0.0038 U	0.0038 U	0.0038 U	0.0042	0.0038 U	0.0038 UJ	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0096 U	0.0038 U	0.0096 UJ
HF-B3	SS (0.0-0.5)	7-Jan-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U
HF-B3	SB (8-10)	24-Jun-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U
IB-1	SS (0-2)	22-Apr-02	0.0039 U	0.0039 U	0.0039 UJ	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0097 U	0.0039 U	0.0097 U
IB-1	SB (4-6)	25-Jun-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0097 U	0.0039 U	0.0097 U
IB-2	SB (4-6)	26-Jun-02	0.0039 U	0.0039 U	0.0039 U	0.0039 UJ	0.0039 U	0.0039 U	0.0098	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UJ	0.0098 UJ	0.0039 U	0.0098 U
IB-3	SB (4-6)	27-Jun-02	0.0042 U	0.0042 U	0.0042 U	0.0054	0.0042 U	0.0042 U	0.0042 U	0.0294 J	0.0205	0.0183 J	0.0042 U	0.0042 U	0.0079	0.01 U	0.0042 U	0.01 U
IB-3	SB (8-10)	28-Jun-02	0.0044 U	0.0616 J	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0215 J	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.011 U	0.0044 U	0.011 U
LB-101	SS (0-1)	23-Mar-02	0.00027 U	0.00031 U	0.00053 U	0.00029 U	0.00039 U	0.00039 U	0.00035 U	0.00036 U	0.00044 U	0.00036 U	0.00038 U	0.00039 U	0.00036 U	0.00039 U	0.0004 U	0.00048 U
LB-101	SS (1-3)	7-May-02	0.0018 U	0.0021 U	0.0036 U	0.002 U	0.0026 U	0.0026 U	0.0024 U	0.0024 U	0.003 U	0.0025 U	0.0026 U	0.0027 U	0.0024 U	0.0027 U	0.0027 U	0.0032 U
LB-102	SS (0-3)	24-Apr-02	0.00027 U	0.00032 U	0.00054 U	0.0003 U	0.0004 U	0.0004 U	0.00035 U	0.00037 U	0.00045 U	0.00037 U	0.00039 U	0.0004 U	0.00037 U	0.0004 U	0.00041 U	0.00049 U
LB-102	SS (1-3)	8-May-02	0.00027 U	0.00032 U	0.00055 U	0.0003 U	0.0004 U	0.0004 U	0.00036 U	0.00037 U	0.00045 U	0.00037 U	0.00039 U	0.0004 U	0.00037 U	0.00041 U	0.00041 U	0.00049 U
LB-103	SS (0-1)	24-Mar-02	0.00026 U	0.00031 U	0.00052 U	0.00029 U	0.00038 U	0.00038 U	0.00034 U	0.00035 U	0.00043 U	0.00036 U	0.00038 U	0.00038 U	0.00035 U	0.00039 U	0.00039 U	0.00047 U
LB-103	SB (5-7)	29-Jun-02	0.0003 U	0.00035 U	0.0006 U	0.00033 U	0.00044 U	0.00044 U	0.00039 U	0.0004 U	0.0005 U	0.00041 U	0.00043 U	0.00044 U	0.00041 U	0.00045 U	0.00045 U	0.00054 U
LHP-101	SS (0-1)	25-Mar-02	0.00027 U	0.00032 U	0.00055 U	0.0003 U	0.0004 U	0.0004 U	0.0036 NJ	0.0153 J	0.0258 J	0.0022 NJ	0.00039 U	0.0004 U	0.00037 U	0.00041 U	0.00041 U	0.00049 U
LHP-101	SB (5-8)	30-Jun-02	0.00034 U	0.0004 U	0.00067 U	0.00037 U	0.00049 U	0.00049 U	0.00044 U	0.00045 U	0.00056 U	0.00046 U	0.00048 U	0.0005 U	0.00046 U	0.0005 U	0.0005 U	0.00061 U
LHP-102	SS (0-1)	26-Mar-02	0.00028 U	0.00033 U	0.00056 U	0.0003 U	0.00041 U	0.00041 U	0.00036 U	0.0157	0.0209	0.00038 U	0.0004 U	0.00041 U	0.00038 U	0.00041 U	0.00042 U	0.0005 U
LHP-103	SS (0-1)	27-Mar-02	0.00027 U	0.00032 U	0.00055 U	0.0003 U	0.0029 J	0.0044	0.00036 U	0.002 NJ	0.0027 J	0.00037 U	0.00039 U	0.0004 U	0.00037 U	0.00041 U	0.00041 U	0.00049 U
LHP-103	SS (1-3)	9-May-02	0.0003 U	0.00035 U	0.0006 U	0.00033 U	0.00044 U	0.00044 U	0.00039 U	0.0056	0.0079 J	0.00041 U	0.00043 U	0.00044 U	0.0004 U	0.00044 U	0.00045 U	0.00054 U
LHP-104	SS (0-1)	28-Mar-02	0.00026 U	0.0003 U	0.00052 U	0.00028 U	0.00038 U	0.00038 U	0.00034 U	0.00035 U	0.00043 U	0.00035 U	0.00037 U	0.00038 U	0.00035 U	0.00038 U	0.00039 U	0.00046 U
LHP-104	SB (7-9)	1-Jul-02	0.00029 U	0.00033 U	0.00057 U	0.00031 U	0.00042 U	0.00041 U	0.00037 U	0.00038 U	0.00047 U	0.00039 U	0.00041 U	0.00042 U	0.00038 U	0.00042 U	0.00043 U	0.00051 U
LHP-105	SS (0-1)	17-Mar-02	0.00026 U	0.0003 U	0.00052 U	0.00028 U	0.00038 U	0.00038 U	0.00034 U	0.00035 U	0.00043 U	0.00035 U	0.00037 U	0.00038 U	0.00035 U	0.00038 U	0.00039 U	0.00047 U
LHP-105 DUP	SS (0-1)	18-Mar-02	0.00026 U	0.0003 U	0.00051 U	0.00028 U	0.00037 U	0.00037 U	0.00033 U	0.00034 U	0.00042 U	0.00035 U	0.00037 U	0.00038 U	0.00035 U	0.00038 U	0.00038 U	0.00046 U
LHP-105	SS (1-3)	10-May-02	0.00026 U	0.0003 U	0.00051 U	0.00028 U	0.00038 U	0.00037 U	0.00034 U	0.00035 U	0.00043 U	0.00035 U	0.00037 U	0.00038 U	0.00035 U	0.00038 U	0.00038 U	0.00046 U
LHP-106	SS (0-1)	29-Mar-02	0.00026 U	0.0003 U	0.00051 U	0.00028 U	0.00037 U	0.00037 U	0.00033 U	0.0018 NJ	0.0037 J	0.00035 U	0.00037 U	0.00038 U	0.00035 U	0.00038 U	0.00038 U	0.00046 U
LHP-106	SS (1-3)	11-May-02	0.00025 U	0.0003 U	0.00051 U	0.00028 U	0.00037 U	0.00037 U	0.00033 U	0.0037	0.0046	0.00035 U	0.00036 U	0.00037 U	0.00034 U	0.00038 U	0.00038 U	0.00046 U
LHP-107	SS (0-1)	30-Mar-02	0.00026 U	0.00031 U	0.00053 U	0.00029 U	0.00038 U	0.00038 U	0.00034 U	0.00035 U	0.00044 U	0.00036 U	0.00038 U	0.00039 U	0.00036 U	0.00039 U	0.00039 U	0.00047 U
LHP-107	SB (5-7)	2-Jul-02	0.00028 U	0.00033 U	0.00055 U	0.0003 U	0.00041 U	0.00041 U	0.00036 U	0.00037 U	0.00046 U	0.00038 U	0.0004 U	0.00041 U	0.00038 U	0.00041 U	0.00042 U	0.0005 U
LHP-108	SS (0-1)	31-Mar-02	0.00028 U	0.00032 U	0.00055 U	0.0003 U	0.0061	0.0046 J	0.00036 U	0.0075	0.0055 J	0.002 J	0.00039 U	0.0004 U	0.00037 U	0.00041 U	0.00041 U	0.00049 U
LHP-108	SB (3-7)	3-Jul-02	0.0003 U	0.00035 U	0.00059 U	0.00032 U	0.00043 U	0.00043 U	0.00039 U	0.0004 U	0.00049 U	0.0004 U	0.00042 U	0.00043 U	0.0004 U	0.00044 U	0.00044 U	0.00053 U
LHP-109	SS (0-1)	1-Apr-02	0.00028 U	0.00033 U	0.00056 U	0.00031 U	0.00041 U	0.00041 U	0.00037 U	0.00038 U	0.00047 U	0.00039 U	0.0004 U	0.00041 U	0.00038 U	0.00042 U	0.00042 U	0.00051 U
LHP-109	SB (7-9)	4-Jul-02	0.00034 U	0.0004 U	0.00067 U	0.00037 U	0.00049 U	0.00049 U	0.00044 U	0.00045 U	0.00056 U	0.00046 U	0.00048 U	0.00049 U	0.00045 U	0.0005 U	0.0005 U	0.0006 U
LHP-110	SS (0-1)	2-Apr-02	0.00028 U	0.00033 U	0.00056 U	0.0003 U	0.00041 U	0.00041 U	0.0127 J	0.0111 NJ	0.0294 NJ	0.00038 U	0.0004 U	0.00041 U	0.00038 U	0.00041 U	0.00042 U	0.0005 U
LHP-111	SS (0-1)	3-Apr-02	0.00027 U	0.00032 U	0.00054 U	0.0003 U	0.0004 U	0.00039 U	0.0225	0.0341 NJ	0.0984 J	0.00037 U	0.00039 U	0.0004 U	0.00037 U	0.0004 U	0.0004 U	0.0254
LHP-112	SS (0-1)	4-Apr-02	0.00027 U	0.00032 U	0.00055 U	0.0003 U	0.0004 U	0.0024	0.0025 J	0.0041 NJ	0.0104	0.00037 U	0.00039 U	0.0004 U	0.00037 U	0.00041 U	0.00041 U	0.00049 U
LHP-113	SS (0-1)	5-Apr-02	0.00026 U	0.00031 U	0.00052 U	0.00028 U	0.00038 U	0.00038 U	0.00034 U	0.00035 U	0.00043 U	0.00036 U	0.00037 U	0.00038 U	0.00035 U	0.00039 U	0.00039 U	0.00047 U
LHP-114	SS (0-1)	6-Apr-02	0.00027 U	0.00032 U	0.00054 U	0.00029 U	0.00039 U	0.00039 U	0.0033 J	0.0077	0.0239 J	0.0034	0.00039 U	0.0004 U	0.00036 U	0.0004 U	0.0004 U	0.00049 U
LHP-115	SS (0-1)	7-Apr-02	0.00025 U	0.0003 U	0.00051 U	0.00028 U	0.00037 U	0.00037 U	0.00033 U	0.00034 U	0.0026	0.00035 U	0.00036 U	0.00037 U	0.00034 U	0.00038 U	0.00038 U	0.00046 U
LHP-116	SS (0-1)	8-Apr-02	0.00028 U	0.00033 U	0.00055 U	0.0003 U	0.0004 U	0.0004 U	0.0024 J	0.00037 U	0.00046 U	0.00038 U	0.0004 U	0.00041 U	0.00037 U	0.00041 U	0.00041 U	0.0005 U
LHP-117	SS (0-1)	9-Apr-02	0.00029 U	0.00034 U	0.00057 U	0.00031 U	0.00042 U	0.00042 U	0.02 NJ	0.00038 U	0.0225 NJ	0.00039 U	0.00041 U	0.00042 U	0.00038 U	0.00042 U	0.00043 U	0.00051 U
LHP-118	SS (0-1)	10-Apr-02	0.00029 U	0.00034 U	0.00057 U	0.00031 U	0.00042 U	0.00042 U	0.0055 J	0.0239 J	0.0687 J	0.021	0.00041 U	0.00042 U	0.00039 U	0.00042 U	0.00043 U	0.00051 U
LHP-119	SS (0-1)	11-Apr-02	0.00028 U	0.00033 U	0.00056 U	0.00031 U	0.00041 U	0.00041 U	0.0016 NJ	0.0252 J	0.0217	0.00039 U	0.0004 U	0.00041 U	0.00038 U	0.00042 U	0.00042 U	0.00051 U
LHP-120	SS (0-1)	12-Apr-02	0.00032 U	0.00037 U	0.00063 U	0.00034 U	0.00046 U	0.00046 U	0.0029 NJ	0.0376	0.0443 J	0.00043 U	0.00045 U	0.00046 U	0.00043 U	0.00047 U	0.00047 U	0.00057 U
LHP-121	SS (0-1)	13-Apr-02	0.00028 U	0.00033 U	0.00055 U	0.0003 U	0.0004 U	0.0004 U	0.0112 J	0.014 J	0.0212	0.00038 U	0.0004 U	0.00041 U	0.00037 U	0.00041 U	0.00041 U	0.0005 U
LHP-122	SS (0-1)	14-Apr-02	0.00026 UJ	0.00031 UJ	0.00053 UJ	0.00029 UJ	0.0018 J	0.0022 NJ	0.0025 J	0.0037 NJ	0.0103 J	0.00036 UJ	0.00038 UJ	0.00039 UJ	0.00036 UJ	0.00039 UJ	0.00039 UJ	0.00047 UJ
LHP-123	SS (0-1)	15-Apr-02	0.00028 U	0.00033 U	0.00056 U	0.0003 U	0.0067 J	0.0066	0.0027 J	0.0174 J	0.0177 J	0.00038 U	0.0004 U	0.00041 U	0.00038 U	0.00041 U	0.00042 U	0.0005 U
LHP-124	SS (0.5-2)	19-Sep-01	0.00029 U	0.00033 U	0.00057 U	0.00031 U	0.00042 U	0.00042 U	0.0017	0.0046 J	0.00047 U	0.0053 J	0.00041 U	0.00042 U	0.00038 U	0.00042 U	0.0019 J	0.00051 U
LHP-124	SB (2-4)	5-Jul-02	0.00029 U	0.00034 U	0.00058 U	0.00032 U	0.00042 U	0.00042 U	0.00038 U	0.00039 U	0.00048 U	0.0004 U	0.00041 U	0.00042 U	0.00039 U	0.00043 U	0.00043 U	0.00052 U
LHP-125	SS (0.5-2)	20-Sep-01	0.00028 U	0.00033 U	0.00056 U	0.00031 U	0.00041 U	0.00041 U	0.00037 U	0.0033 J	0.00046 U	0.0058 J	0.0004 U	0.00041 U	0.00038 U	0.00042 U	0.00042 U	0.0005 U
LHP-125	SB (4-6)	6-Jul-02	0.00027 U	0.00032 U	0.00054 U	0.0003 U	0.0004 U	0.0004 U	0.00035 U	0.00037 U	0.00045 U	0.00037 U	0.00039 U	0.0004 U	0.00037 U	0.0004 U	0.00041 U	0.00049 U
LHP-126	SB (2-4)	7-Jul-02	0.00027 U	0.00032 U	0.00054 U	0.00029 U	0.0004 U	0.00039 U	0.00035 U	0.00036 U	0.0134	0.00037 U	0.00039 U	0.0004 U	0.00037 U	0.0004 U	0.0004 U	0.00049 U

ATTACHMENT A
Supplemental Data Tables
Table A-1.3
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Pesticides
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Pesticides (mg/kg)															
			Alpha-BHC	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Alpha-Chlordane	Gamma-Chlordane	P,P'-DDD	P,P'-DDE	P,P'-DDT	Dieldrin	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Ketone	Heptachlor Epoxide	Methoxychlor
LHP-126	SB (8-10)	8-Jul-02	0.00031 U	0.00036 U	0.00061 U	0.00033 U	0.00044 U	0.00044 U	0.0004 U	0.00041 U	0.00051 U	0.00042 U	0.00044 U	0.00045 U	0.00041 U	0.00045 U	0.00046 U	0.00055 U
LHP-127	SS (0-1)	16-Apr-02	0.00026 U	0.00031 U	0.00052 U	0.00029 U	0.00038 U	0.00038 U	0.004	0.0032 J	0.013	0.00036 U	0.00037 U	0.00038 U	0.00035 U	0.00039 U	0.00039 U	0.00047 U
LHP-127	SB (3-5)	9-Jul-02	0.00077 U	0.0009 U	0.0015 U	0.00083 U	0.0011 U	0.0011 U	0.00099 U	0.001 U	0.0013 U	0.001 U	0.0011 U	0.0011 U	0.001 U	0.0011 U	0.0011 U	0.0014 U
LHP-128	SS (0-1)	19-Mar-02	0.00071 U	0.00083 U	0.0014 U	0.00077 U	0.001 U	0.001 U	0.00092 U	0.00095 U	0.0012 U	0.00097 U	0.001 U	0.001 U	0.00096 U	0.0011 U	0.0011 U	0.0013 U
LHP-128 DUP	SS (0-1)	20-Mar-02	0.00071 U	0.00083 U	0.0014 U	0.00077 U	0.001 U	0.001 U	0.00092 U	0.00096 U	0.0012 U	0.00097 U	0.001 U	0.001 U	0.00096 U	0.0011 U	0.0011 U	0.0013 U
LP-1	SS (0.0-0.5)	8-Jan-02	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.009 U	0.0036 U	0.009 U
LP-10	SS (0.0-0.5)	9-Jan-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0097 U	0.0039 U	0.0097 U
LP-10	SS (0.5-2)	21-Sep-01	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
LP-11	SS (0.0-0.5)	10-Jan-02	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0507 J	0.004 U	0.004 U	0.004 U	0.004 U	0.01 U	0.004 U	0.01 U
LP-12	SS (0.0-0.5)	11-Jan-02	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.012	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0088 U	0.0035 U	0.0088 U
LP-12	SB (4-6)	10-Jul-02	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0065	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.009 U	0.0036 U	0.009 U
LP-13	SS (0.0-0.5)	12-Jan-02	0.0056 J	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0863 J	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.011 U	0.0043 U	0.011 UJ
LP-14	SS (0.0-0.5)	13-Jan-02	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0061	0.0156 J	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0094 U	0.0038 U	0.0094 UJ
LP-14	SS (0.5-2)	22-Sep-01	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UJ	0.004 U	0.004 U	0.004 U	0.004 U	0.01 U	0.004 U	0.01 UJ
LP-15	SS (0.0-0.5)	14-Jan-02	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0079	0.0305 J	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.01 U	0.0042 U	0.01 UJ
LP-16	SS (0.0-0.5)	15-Jan-02	0.0037 U	0.0445	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0127	0.0037 U	0.0426	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0094 U	0.0037 U	0.0094 U
LP-16	SS (0.5-2)	23-Sep-01	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0067	0.0276	0.319	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0088 U	0.0035 U	0.0088 U
LP-2	SS (0.0-0.5)	16-Jan-02	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0271 J	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.01 U	0.0042 U	0.01 U
LP-2	SS (0.5-2)	24-Sep-01	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 UJ	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.011 U	0.0043 U	0.011 U
LP-3	SS (0.0-0.5)	17-Jan-02	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0044	0.0233	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.009 U	0.0036 U	0.0117
LP-4	SS (0.0-0.5)	18-Jan-02	0.0076 U	0.0131	0.0076 UJ	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.019 U	0.0076 U	0.019 U
LP-4	SS (0.5-2)	25-Sep-01	0.0076 U	0.0076 U	0.0076 UJ	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0296 J	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.019 U	0.0076 U	0.019 U
LP-5	SS (0.0-0.5)	19-Jan-02	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0528 J	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 U
LP-6	SS (0.0-0.5)	20-Jan-02	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0454	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0093 U	0.0037 U	0.0093 U
LP-6	SB (4-6)	11-Jul-02	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0115 J	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
LP-7	SS (0.0-0.5)	21-Jan-02	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 UJ	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.011 U	0.0042 U	0.011 UJ
LP-8	SS (0.0-0.5)	16-Oct-01	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
LP-8 DUP	SS (0.0-0.5)	17-Oct-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0969 J	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 UJ
LP-9	SS (0.0-0.5)	22-Jan-02	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UJ	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0094 U	0.0038 U	0.0094 UJ
MW-26S	SB (8-10)	12-Jul-02	0.00033 U	0.00038 U	0.00065 U	0.00035 U	0.00047 U	0.00047 U	0.00042 U	0.00044 U	0.00054 U	0.00044 U	0.00047 U	0.00048 U	0.00044 U	0.00048 U	0.00049 U	0.00058 U
MW-6D	SS (0-2)	23-Apr-02	0.00028 U	0.00032 U	0.00055 U	0.0003 U	0.0004 U	0.0004 U	0.00036 U	0.00037 U	0.00045 U	0.00038 U	0.00039 U	0.0004 U	0.00037 U	0.00041 U	0.00041 U	0.00049 U
PCA-1	SS (0.0-0.5)	23-Jan-02	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.0013	0.00076	0.00071 U	0.0017	0.0138	0.0009	0.0012	0.00071 U	0.00071 U	0.0018 U	0.00071 U	0.0018 U
PCA-1	SB (4-6)	13-Jul-02	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.002 U	0.00081 U	0.002 U
PCA-2	SS (0.0-0.5)	24-Jan-02	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.0018 U	0.00073 U	0.0018 U
PCA-3	SS (0.0-0.5)	25-Jan-02	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0193	0.0038 U	0.0038 U	0.119	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0094 U	0.0038 U	0.0094 U
PCA-3	SB (4-6)	14-Jul-02	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
PCA-4	SS (0.0-0.5)	18-Oct-01	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0222	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0093 U	0.0037 U	0.0093 U
PCA-4 DUP	SS (0.0-0.5)	19-Oct-01	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0233	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 U
PCA-4	SB (4-6)	15-Jul-02	0.0046 UJ	0.0046 UJ	0.0046 UJ	0.0046 UJ	0.0046 UJ	0.0046 UJ	0.0046 UJ	0.0046 UJ	0.0147 UJ	0.0046 UJ	0.0046 UJ	0.0046 UJ	0.0046 UJ	0.012 UJ	0.0046 UJ	0.012 UJ
PCA-5	SS (0.0-0.5)	26-Jan-02	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0154 J	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.01 U	0.0041 U	0.01 U
PCA-5	SS (0.5-2)	26-Sep-01	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0111	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U
PCA-6	SS (0.0-0.5)	27-Jan-02	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0095 U	0.0038 U	0.0095 U
RR-1	SS (0.0-0.5)	28-Jan-02	0.018 U	0.018 U	0.018 U	0.018 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.018 U	0.037 U	0.037 U	0.037 U	0.037 U	0.018 U	0.074 U
RR-10	SS (0.0-0.5)	29-Jan-02	0.0037 UJ	0.0037 UJ	0.0037 UJ	0.0037 UJ	0.0037 UJ	0.0037 UJ	0.0037 UJ	0.0124 J	0.0156 J	0.0037 UJ	0.0037 UJ	0.0037 UJ	0.0037 UJ	0.0093 UJ	0.0037 UJ	0.0093 UJ
RR-11	SS (0.0-0.5)	20-Oct-01	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0266 J	0.0618 J	0.004 U	0.004 U	0.004 U	0.004 U	0.0099 U	0.004 U	0.583 J
RR-11 DUP	SS (0.0-0.5)	21-Oct-01	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0078	0.0076	0.0038 U	0.0092	0.0484	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0094 U	0.0038 U	0.0094 U
RR-12	SS (0.0-0.5)	30-Jan-02	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0063	0.027	0.004 U	0.004 U	0.004 U	0.004 U	0.0099 U	0.004 U	0.0099 U
RR-2	SS (0.0-0.5)	31-Jan-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0096 U	0.0039 U	0.0096 U
RR-2	SB (8-10)	16-Jul-02	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.015	0.0172	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.013 U	0.0052 U	0.013 U
RR-3	SS (0.0-0.5)	1-Feb-02	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0242	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0094 U	0.0038 U	0.0094 U
RR-4	SS (0.0-0.5)	2-Feb-02	0.0038 U	0.0038 U	0.0038 U	0.0038 UJ	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0038 UJ	0.0038 U	0.0095 UJ	0.0038 U	0.0095 U
RR-4	SB (6-8)	17-Jul-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U
RR-5	SS (0.0-0.5)	3-Feb-02	0.0032 U	0.0032 U	0.0032 U	0.0032 UJ	0.0032 U	0.0032 U	0.0032 U	0.0032 U	0.0032 U	0.0032 U	0.0032 U	0.0032 UJ	0.0032 U	0.0081 UJ	0.0032 U	0.0081 U

ATTACHMENT A
Supplemental Data Tables
Table A-1.3
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Pesticides
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Pesticides (mg/kg)															
			Alpha-BHC	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Alpha-Chlordane	Gamma-Chlordane	P,P'-DDD	P,P'-DDE	P,P'-DDT	Dieldrin	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Ketone	Heptachlor Epoxide	Methoxychlor
RR-6	SS (0.0-0.5)	4-Feb-02	0.0038 U	0.0038 U	0.0038 U	0.0038 UJ	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0242	0.0038 U	0.0038 U	0.0038 UJ	0.0038 U	0.0096 UJ	0.0038 U	0.0096 U
RR-6	SB (8-10)	18-Jul-02	0.0038 U	0.0038 U	0.0038 U	0.0038 UJ	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0106	0.0038 U	0.0038 U	0.0038 UJ	0.0038 U	0.0095 UJ	0.0038 U	0.0095 U
RR-7	SS (0.0-0.5)	5-Feb-02	0.004 U	0.004 U	0.004 U	0.004 UJ	0.004 U	0.004 U	0.0041	0.004 U	0.004 U	0.004 U	0.004 U	0.004 UJ	0.004 U	0.01 UJ	0.004 U	0.01 U
RR-8	SS (0.0-0.5)	6-Feb-02	0.0043 U	0.0043 U	0.0043 UJ	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.0235	0.0043 U	0.0043 U	0.0043 U	0.0043 U	0.011 U	0.0043 U	0.011 U
RR-8	SB (6-8)	19-Jul-02	0.0065 U	0.0065 U	0.0065 UJ	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.016 U	0.0065 U	0.016 U
RR-9	SS (0.0-0.5)	7-Feb-02	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0244	0.0375	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 U
SILO-B1	SS (0.0-0.5)	8-Feb-02	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.01 U	0.0042 U	0.01 U
SILO-B1	SB (6-8)	20-Jul-02	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.035	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.037 U	0.015 U	0.037 U
SILO-B1 DUP	SB (6-8)	21-Jul-02	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.0263 J	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.038 U	0.015 U	0.038 U
SILO-B2	SS (0.0-0.5)	9-Feb-02	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0099 U	0.004 U	0.0099 U
SILO-B3	SS (0.0-0.5)	10-Feb-02	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.01 U	0.004 U	0.01 U
SILO-B3	SB (6-8)	22-Jul-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U
SILO-B4	SS (0.0-0.5)	11-Feb-02	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.011 U	0.0042 U	0.011 U
SPR-1	SS (0.0-0.5)	12-Feb-02	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0097	0.0074	0.0038 U	0.0038 U	0.0076	0.0038 U	0.0038 U	0.0038 U	0.0038 U	0.0095 U	0.0038 U	0.0095 U
SPR-1	SB (8-10)	23-Jul-02	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.012 U	0.005 U	0.012 U
SPR-2A	SS (0.0-0.5)	13-Feb-02	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0021 U	0.00083 U	0.0021 U
SPR-2A	SB (8-10)	24-Jul-02	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.0024 U	0.00096 U	0.0024 U
SPR-2B	SS (0.0-0.5)	14-Feb-02	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.002 U	0.00078 U	0.002 U
SPR-3	SS (0.0-0.5)	15-Feb-02	0.00075 U	0.0078	0.00075 UJ	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.0019 U	0.00075 U	0.0019 U
SPR-3	SB (4-6)	25-Jul-02	0.0078 U	0.0078 U	0.0078 UJ	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.013	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.02 U	0.0078 U	0.02 U
SPR-4A	SS (0.0-0.5)	16-Feb-02	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0052	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.0021 U	0.00083 U	0.0021 U
SPR-4A	SB (8-10)	26-Jul-02	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0121	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0031 U	0.0012 U	0.0031 U
SPR-4B	SS (0.0-0.5)	17-Feb-02	0.019 U	0.019 U	0.019 U	0.019 U	0.038 U	0.038 U	0.038 U	0.0278	0.038 U	0.019 U	0.038 U	0.038 U	0.038 U	0.038 U	0.019 U	0.076 U
SPR-4B	SB (4-6)	27-Jul-02	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0127 J	0.0326 J	0.004 UJ	0.004 U	0.004 U	0.004 U	0.004 U	0.01 U	0.004 U	0.01 UJ
SPR-4C	SS (0.0-0.5)	18-Feb-02	0.0148	0.0124	0.0122	0.0067	0.0039 U	0.0039 U	0.184 J	0.0383	0.0039 UJ	0.0881	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 UJ
SPR-4C	SB (4-6)	28-Jul-02	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0101	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.012 U	0.005 U	0.012 UJ
SPR-5	SS (0.0-0.5)	19-Feb-02	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.009 U	0.0036 U	0.009 U
SPR-5	SB (2-4)	29-Jul-02	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0099	0.0119	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.011 U	0.0044 U	0.011 U
SPR-6	SS (0.0-0.5)	20-Feb-02	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.009 U	0.0036 U	0.009 U
SPR-6	SS (0.5-2)	27-Sep-01	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0166	0.012	0.0205	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 U
SR-1	SS (0.0-0.5)	21-Feb-02	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.00071 U	0.0018 U	0.00071 U	0.0018 U
SR-2	SS (0.0-0.5)	22-Feb-02	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.0017 U	0.00067 U	0.0017 U
ST-1	SS (0.0-0.5)	23-Feb-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0096 U	0.0039 U	0.0096 U
ST-2	SS (0.0-0.5)	24-Feb-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0131 J	0.0135 J	0.0039 U	0.0102 J	0.0171 J	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0122 J
ST-3	SS (0.0-0.5)	25-Feb-02	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 UJ
ST-3	SB (4-6)	30-Jul-02	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 UJ	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.012 U	0.0048 U	0.012 U
TES-1	SS (0-1)	17-Apr-02	0.00028 U	0.00033 U	0.00056 U	0.00031 U	0.00041 U	0.00041 U	0.00037 U	0.00038 U	0.00047 U	0.00039 U	0.0004 U	0.00041 U	0.00038 U	0.00042 U	0.00042 U	0.00051 U
TES-2	SS (0-1)	18-Apr-02	0.0003 U	0.00036 U	0.00061 U	0.00033 U	0.00044 U	0.00044 U	0.0004 U	0.00041 U	0.0005 U	0.00041 U	0.00043 U	0.00045 U	0.00041 U	0.00045 U	0.00045 U	0.00055 U
TES-3	SS (0-1)	19-Apr-02	0.00031 U	0.00036 U	0.00061 U	0.00033 U	0.00045 U	0.00044 U	0.0004 U	0.00041 U	0.00051 U	0.00042 U	0.00044 U	0.00045 U	0.00041 U	0.00045 U	0.00046 U	0.00055 U
TES-4	SS (0-1)	20-Apr-02	0.00027 U	0.00032 U	0.00053 U	0.00029 U	0.00039 U	0.00039 U	0.0079 NJ	0.0042 J	0.0217 J	0.00037 U	0.00038 U	0.00039 U	0.00036 U	0.0004 U	0.0004 U	0.00048 U
TLN-1	SS (0.0-0.5)	26-Feb-02	0.1 U	0.4 U	0.1 U	0.1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.1 U	0.42 U
TLN-1	SS (0.5-2)	28-Sep-01	0.02 U	0.02 U	0.02 U	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.02 U	0.08 U
TLN-2	SS (0.0-0.5)	27-Feb-02	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.0019 U	0.00076 U	0.0019 U
TLN-3	SS (0.0-0.5)	28-Feb-02	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.0018 U	0.00072 U	0.0018 U
TLN-3	SB (2-4)	31-Jul-02	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.032	0.0319	0.0323	0.00076 U	0.006	0.00076 U	0.00076 U	0.0019 U	0.00076 U	0.0019 U
TLN-4	SS (0.0-0.5)	22-Oct-01	0.018 U	0.018 U	0.018 U	0.018 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.018 U	0.036 U	0.036 U	0.036 U	0.036 U	0.018 U	0.071 U
TLN-4 DUP	SS (0.0-0.5)	23-Oct-01	0.017 U	0.017 U	0.017 U	0.017 U	0.034 U	0.034 U	0.034 U	0.034 U	0.034 U	0.017 U	0.034 U	0.034 U	0.034 U	0.034 U	0.017 U	0.069 U
TLN-5	SS (0.0-0.5)	1-Mar-02	0.007 U	0.007 U	0.007 U	0.007 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.007 U	0.014 U	0.014 U	0.014 U	0.014 U	0.007 U	0.028 U
TLN-5	SS (0.5-2)	29-Sep-01	0.018 U	0.018 U	0.018 U	0.018 U	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U	0.018 U	0.036 U	0.036 U	0.036 U	0.036 U	0.018 U	0.071 U
TLN-5	SB (4-6)	1-Aug-02	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0091 U	0.0036 U	0.0091 U
TLN-6	SS (0.0-0.5)	2-Mar-02	0.018 U	0.018 U	0.018 U	0.018 U	0.037 U	0.037 U	0.037 U	0.037 U	0.037 U	0.018 U	0.037 U	0.037 U	0.037 U	0.037 U	0.018 U	0.074 U
TLS-1	SS (0.0-0.5)	3-Mar-02	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0139	0.0037 U	0.0037 U	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0092 U
TLS-10	SS (0.0-0.5)	4-Mar-02	0.00076 U	0.00076 U	0.00076 UJ	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.0019 U	0.00076 U	0.0019 U

ATTACHMENT A
Supplemental Data Tables
Table A-1.3
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Pesticides
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Pesticides (mg/kg)															
			Alpha-BHC	Beta-BHC	Bhc, Delta Isomer	Bhc, Gamma Isomer	Alpha-Chlordane	Gamma-Chlordane	P,P'-DDD	P,P'-DDE	P,P'-DDT	Dieldrin	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Ketone	Heptachlor Epoxide	Methoxychlor
TLS-10	SB (8-10)	2-Aug-02	0.00091 U	0.00091 U	0.00091 UJ	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.0033 J	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.0023 U	0.00091 U	0.0023 U
TLS-11	SS (0.0-0.5)	5-Mar-02	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.0097 J	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.0019 U	0.00077 U	0.0019 U
TLS-2	SS (0.0-0.5)	6-Mar-02	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.00075 UJ	0.00075 U	0.00075 U	0.00075 U	0.00075 U	0.0019 U	0.00075 U	0.0019 U
TLS-2	SB (6-8)	3-Aug-02	0.0057 UJ	0.0057 UJ	0.0057 UJ	0.0057 UJ	0.0057 UJ	0.0057 UJ	0.0218	0.0088	0.0057 UJ	0.0057 UJ	0.0057 UJ	0.0057 UJ	0.0057 UJ	0.014 UJ	0.0057 UJ	0.014 UJ
TLS-3	SS (0.0-0.5)	7-Mar-02	0.00073 U	0.00073 U	0.00073 UJ	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.0018 U	0.00073 U	0.0018 U
TLS-4	SS (0.0-0.5)	8-Mar-02	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0084 U	0.0034 U	0.0084 U
TLS-4	SB (8-10)	4-Aug-02	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.014 U	0.0057 U	0.014 U
TLS-5	SS (0.0-0.5)	9-Mar-02	0.088 U	0.088 U	0.088 U	0.088 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.088 U	0.18 U	0.18 U	0.18 U	0.18 U	0.088 U	0.35 U
TLS-5	SB (8-10)	5-Aug-02	0.0054 U	0.0054 U	0.0054 UJ	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.014 U	0.0054 U	0.014 U
TLS-6	SS (0.0-0.5)	10-Mar-02	0.0073 U	0.0073 U	0.0073 UJ	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.018 U	0.0073 U	0.018 U
TLS-6	SB (3-5)	6-Aug-02	0.0042 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ	0.011 UJ	0.0042 UJ	0.011 UJ
TLS-7	SS (0.0-0.5)	11-Mar-02	0.0073 U	0.0888 J	0.0073 UJ	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0251 J	0.0073 U	0.128 J	0.0115 J	0.018 U
TLS-8	SS (0.0-0.5)	12-Mar-02	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 UJ	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0098 U	0.0039 U	0.0098 U
TLS-8	SB (6-8)	7-Aug-02	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.012 U	0.0046 U	0.012 U
TLS-9	SS (0.0-0.5)	13-Mar-02	0.0068 U	0.0068 U	0.0068 UJ	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.017 U	0.0068 U	0.017 U
WWT-1A	SS (0.0-0.5)	14-Mar-02	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.002 U	0.00082 U	0.002 U
WWT-2	SS (0.0-0.5)	15-Mar-02	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0216 J	0.0035 U	0.0035 U	0.0035 U	0.0035 UJ	0.0035 U	0.0035 U	0.0035 U	0.0035 U	0.0088 U	0.0035 U	0.0088 UJ
WWT-3	SS (0.0-0.5)	16-Mar-02	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0232 J	0.0036 U	0.0036 U	0.0036 U	0.0036 UJ	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.009 U	0.0036 U	0.009 UJ

Notes:

SS = Surface soil (0 to 2 ft bgs)
SB = Subsurface soil (2 to 10 ft bgs)
mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; method detection limit (MDL) presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables

Table A-1.4
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Dioxins
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Dioxins (mg/kg)							Dioxin TEQ
			1,2,3,4,6,7,8-HPCDD	1,2,3,4,7,8-HXCDD	1,2,3,6,7,8-HXCDD	1,2,3,7,8,9-HXCDD	1,2,3,7,8- PECDD	2,3,7,8-TCDD	OCDD	
		TEF:	0.01	0.1	0.1	0.1	1.0	1.0	0.0003	
231-B1	SS (0-0.5)	5-Oct-01	5.9E-04	4.8E-06	1.3E-05	1.4E-05	4.3E-06	1.6E-06	2.1E-02	2.1E-05
231-B10	SS (0-0.5)	17-Sep-01	8.5E-05	6.5E-06	4.6E-06	2.6E-06	1.4E-06	8.6E-07	9.2E-04	4.7E-06
231-B12	SS (0-0.5)	17-Sep-01	6.0E-05	1.2E-06	2.5E-06	1.3E-06	5.5E-07	3.5E-07	8.4E-04	2.3E-06
231-B14	SS (0-0.5)	19-Sep-01	1.2E-04	3.5E-06	3.8E-06	1.4E-06 U	1.3E-06	5.1E-07	2.2E-03	4.4E-06
CF-1	SS (0-0.5)	31-Aug-01	2.3E-05	7.2E-07	1.5E-06	9.9E-07	7.8E-07	1.5E-07 U	6.0E-04	1.6E-06
CF-5	SS (0-0.5)	28-Aug-01	1.5E-05 J	4.0E-07 J	5.8E-07 J	5.1E-07 J	1.2E-07 UJ	1.1E-07 UJ	7.0E-04 J	6.2E-07
231-B5	SS (0.5-2)	19-Sep-01	8.2E-05	7.8E-07	1.3E-06	9.8E-07	4.4E-07	2.9E-07	7.7E-03	4.2E-06
LHP-111	SS (0-1)	4-Dec-06	8.0E-04	4.7E-06	1.2E-05	5.2E-06	2.4E-06	2.2E-06	1.6E-02	2.0E-05
LHP-121	SS (0-1)	6-Dec-06	6.3E-05	3.5E-07	7.2E-07	6.9E-07	2.0E-07	2.8E-07 U	6.8E-03	3.2E-06
LP-1	SS (0-0.5)	27-Aug-01	3.0E-05 J	7.1E-07 J	1.0E-06 J	7.0E-07 J	1.2E-07 J	1.8E-07 J	8.9E-04 J	1.1E-06
LP-10	SS (0-0.5)	27-Aug-01	3.4E-04 J	6.1E-06 J	1.2E-05 J	6.1E-06 J	6.4E-06 J	4.1E-06 J	5.0E-03 J	1.8E-05
LP-16	SS (0-0.5)	27-Aug-01	1.9E-04 J	1.2E-05 J	9.3E-06 J	5.0E-06 J	4.7E-06 J	3.1E-06 J	2.7E-03 J	1.3E-05
LP-6	SS (0-0.5)	27-Aug-01	3.3E-05 J	1.0E-06 J	1.6E-06 J	1.2E-06 J	4.1E-07 UJ	5.9E-07 UJ	1.7E-03 J	1.7E-06
LP-8	SS (0-0.5)	24-Aug-01	4.0E-05	1.0E-06	2.1E-06	1.4E-06	8.2E-07	4.9E-07 U	1.7E-03	2.4E-06
LP-8 DUP	SS (0-0.5)	24-Aug-01	4.0E-05	U	1.5E-06	1.1E-06	6.3E-07	U	2.2E-03	2.0E-06
HB-1A	SB (6.75-6.75)	18-Apr-02	1.8E-04	1.1E-05	1.7E-05	1.2E-05	7.6E-06	1.5E-06	1.6E-03	1.5E-05
HB-3A	SB (5.25-5.25)	17-Apr-02	1.2E-04	5.0E-06 U	5.0E-06 U	5.0E-06 U	5.0E-06 U	1.0E-06 U	1.9E-02	1.1E-05
HB-3A DUP	SB (5.25-5.25)	17-Apr-02	1.2E-04	-- U	-- U	-- U	-- U	-- U	9.4E-03	4.1E-06
HB-4A	SB (5.33-5.33)	19-Apr-02	1.2E-04	5.0E-06 U	5.0E-06 U	5.0E-06 U	5.0E-06 U	1.0E-06 U	--	4.9E-06
HB-8A	SB (3-3)	23-Apr-02	9.7E-05	6.7E-06	7.2E-06	6.1E-06	5.0E-06 U	2.8E-06	--	8.3E-06
ADS-102	SB (7-8)	5-Dec-06	1.0E-04	7.3E-07	8.2E-07	8.0E-07	4.4E-07	2.0E-07	3.4E-02	1.2E-05

Notes:

Dioxins were converted to a 2,3,7,8-TCDD equivalent concentration using the Toxic Equivalency Factors presented in the table and summed to calculate a Dioxin Toxic Equivalency Quotient (TEQ). Individual dioxins that were never detected in soil were excluded from the summation; otherwise, non-detect results were summed using one-half the method detection limit (MDL). For duplicate dioxin samples, the Dioxin TEQ was calculated prior to applying the duplicate handling process described below.

SS = Surface soil (0 to 2 ft bgs)
SB = Subsurface soil (2 to 10 ft bgs)
mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; MDL presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables

Table A-1.5
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Furans
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Furans (mg/kg)										Furan TEQ
			1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDF	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDF	OCDF	
		TEF:	0.01	0.01	0.1	0.1	0.1	0.03	0.1	0.3	0.1	0.0003	
231-B1	SS (0-0.5)	5-Oct-01	2.0E-04	5.5E-05	2.3E-04	4.5E-05	3.4E-05	1.0E-04	2.4E-05	8.0E-05	2.3E-04	1.0E-03	8.6E-05
231-B10	SS (0-0.5)	17-Sep-01	3.9E-04	1.4E-04	3.6E-04	1.0E-04	5.7E-05	1.3E-04	4.0E-05	1.1E-04	1.7E-04	9.0E-04	1.1E-04
231-B12	SS (0-0.5)	17-Sep-01	1.1E-04	3.8E-05	7.5E-05	2.2E-05	1.6E-05	2.8E-05	1.1E-05	2.8E-05	3.7E-05	2.4E-04	2.7E-05
231-B14	SS (0-0.5)	19-Sep-01	2.8E-04	1.0E-04	2.8E-04	7.6E-05	3.2E-05	7.3E-05	2.6E-05	5.8E-05	8.1E-05	9.0E-04	7.3E-05
CF-1	SS (0-0.5)	31-Aug-01	4.1E-05	2.0E-05	5.9E-05	1.6E-05	1.8E-05	3.6E-05	7.9E-06	3.4E-05	2.5E-05	1.0E-04	2.5E-05
CF-5	SS (0-0.5)	28-Aug-01	1.3E-05 J	6.0E-06 J	1.6E-05 J	4.8E-06 J	5.3E-06 J	9.1E-06 J	2.6E-06 J	9.1E-06 J	9.4E-06 J	4.1E-05 J	7.0E-06
231-B5	SS (0.5-2)	19-Sep-01	2.7E-05	9.1E-06	4.4E-05	1.0E-05	4.1E-06	1.4E-05	3.9E-06	6.0E-06	9.4E-06	1.4E-04	9.8E-06
LHP-111	SS (0-1)	4-Dec-06	2.5E-04	4.8E-05	1.3E-04	3.4E-05	4.1E-05	8.0E-05	1.8E-05	8.4E-05	5.0E-05	3.0E-03	5.9E-05
LHP-121	SS (0-1)	6-Dec-06	1.2E-06	4.6E-07 U	1.8E-07	1.7E-07	4.6E-07 U	1.2E-07	1.7E-07	2.4E-07	3.4E-07	1.1E-06	2.0E-07
LP-1	SS (0-0.5)	27-Aug-01	2.4E-05 J	8.0E-06 J	2.0E-05 J	5.3E-06 J	3.5E-06 J	6.7E-06 J	2.5E-06 J	5.2E-06 J	4.6E-06 J	5.9E-05 J	5.6E-06
LP-10	SS (0-0.5)	27-Aug-01	1.2E-03 J	9.3E-04 J	--	7.6E-04 J	6.1E-04 J	1.8E-03 J	3.2E-04 J	1.4E-03 J	1.7E-03 J	2.5E-03 J	8.4E-04
LP-16	SS (0-0.5)	27-Aug-01	9.4E-04 J	1.2E-03 J	2.1E-03 J	5.4E-04 J	1.0E-03 J	1.2E-03 J	3.5E-04 J	1.4E-03 J	--	3.4E-03 J	8.8E-04
LP-6	SS (0-0.5)	27-Aug-01	6.7E-05 J	6.9E-05 J	1.4E-04 J	4.3E-05 J	5.5E-05 J	9.3E-05 J	2.0E-05 J	1.0E-04 J	5.9E-05 J	2.1E-04 J	6.6E-05
LP-8	SS (0-0.5)	24-Aug-01	4.0E-05	1.6E-05	4.6E-05	1.3E-05	1.6E-05	2.4E-05	7.5E-06	2.7E-05	1.9E-05	1.2E-04	1.9E-05
LP-8 DUP	SS (0-0.5)	24-Aug-01	3.3E-05	1.5E-05	4.0E-05	1.2E-05	1.5E-05	2.3E-05	6.9E-06	2.5E-05	1.7E-05	9.0E-05	1.8E-05
HB-1A	SB (6.75-6.75)	18-Apr-02	5.0E-04	3.8E-05	7.4E-05	8.3E-05	3.6E-05	3.7E-05	9.1E-05	5.8E-05	1.9E-05	3.0E-04	5.4E-05
HB-3A	SB (5.25-5.25)	17-Apr-02	3.4E-05	5.0E-06 U	7.3E-06	5.0E-06 U	5.0E-06 U	8.5E-06	5.0E-06 U	8.7E-06	2.1E-04	8.7E-05	2.6E-05
HB-3A DUP	SB (5.25-5.25)	17-Apr-02	2.8E-05	-- U	6.0E-06	-- U	-- U	6.8E-06	-- U	7.3E-06	1.7E-04	7.3E-05	2.0E-05
HB-4A	SB (5.33-5.33)	19-Apr-02	5.0E-06 U	5.0E-06 U	5.0E-06 U	5.0E-06 U	5.0E-06 U	5.0E-06 U	5.0E-06 U	5.0E-06 U	1.0E-06 U	1.0E-05 U	1.9E-06
HB-8A	SB (3-3)	23-Apr-02	1.4E-04	5.0E-06 U	4.6E-05	2.5E-05	1.4E-05	1.6E-05	2.8E-05	2.1E-05	2.2E-05	3.0E-04	2.2E-05
ADS-102	SB (7-8)	5-Dec-06	3.2E-06	4.4E-07	1.7E-06	8.0E-07	4.2E-07	1.5E-06	6.2E-07	1.7E-06	4.8E-06	9.7E-06	1.4E-06

Notes:
Furans were converted to a 2,3,7,8-TCDD equivalent concentration using the Toxic Equivalency Factors presented in the table and summed to calculate a Furan Toxic Equivalency Quotient (TEQ). Individual furans that were never detected in soil were excluded from the summation; otherwise, non-detect results were summed using one-half the method detection limit (MDL). For duplicate furan samples, the Furan TEQ was calculated prior to applying the duplicate handling process described below.

SS = Surface soil (0 to 2 ft bgs)
SB = Subsurface soil (2 to 10 ft bgs)
mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; MDL presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables

Table A-1.6a
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds (Polycyclic Aromatic Hydrocarbons)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Carcinogenic Polycyclic Aromatic Hydrocarbons (mg/kg)								Polycyclic Aromatic Hydrocarbons (mg/kg)												
			Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,H) Anthracene	Indeno (1,2,3-C,d) Pyrene	Benzo(a) pyrene TEQ	Acenaph thene	Acenaph thylene	Anthracene	Benzo (g,H,i) Perylene	2-Chloro naphthalene	Dibenzo furan	Fluoran thene	Fluorene	2-Methyl naphthalene	2-Methyl phenol	Naphthalene	Phenanthrene	Pyrene
		TEF:	0.1	1	0.1	0.01	0.001	1	0.1														
12K-B1	SS (0.0-0.5)	6-Sep-01	0.079 UJ	0.079 UJ	0.079 UJ	0.079 UJ	0.079 U	0.079 UJ	0.079 UJ	0.091	0.079 U	0.079 U	0.0372 J	0.079 UJ	0.079 U	0.079 U	0.0812	0.079 U	0.102	0.2 U	0.092	0.097	0.183
12K-B1	SS (0.5-2)	6-Sep-01	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.098	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.21 U	0.085 U	0.085 U	0.085 U
12K-B2	SS (0.0-0.5)	7-Sep-01	0.0334 J	0.081 U	0.0865	0.081 U	0.0518 J	0.081 U	0.081 U	0.097	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.0797 J	0.081 U	0.081 U	0.2 U	0.081 U	0.042 J	0.0727 J
12K-B2	SS (0.5-2)	7-Sep-01	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.091	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.2 U	0.079 U	0.079 U	0.079 U
150K-1	SS (0.0-0.5)	8-Sep-01	0.472 J	0.108 J	0.21 J	0.4 UJ	0.293 J	0.4 UJ	0.4 UJ	0.40	0.534	0.4 U	0.487	0.4 UJ	0.4 U	0.61	1.54	0.784	0.4 U	1 U	0.219 J	2.86	1.16
150K-1	SS (0.5-2)	8-Sep-01	0.127	0.0676 J	0.096	0.0446 J	0.131	0.077 U	0.0311 J	0.13	0.0568 J	0.077 U	0.276	0.027 J	0.077 U	0.0536 J	0.423	0.0883	0.077 U	0.19 U	0.0315 J	0.464	0.303
230-B1	SS (0.0-0.5)	27-Oct-01	1.01	0.606	0.995	0.428	0.966	0.0532 J	0.212	0.89	0.0716 J	0.079 U	0.288	0.149	0.079 U	0.0373 J	2.37	0.0898	0.0316 J	0.2 U	0.0312 J	0.795	2
230-B1	SB (4-6)	27-Oct-01	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.45	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.98 U	0.238 J	0.108 J	0.39 U
230-B10	SS (0.0-0.5)	28-Oct-01	0.138	0.0504 J	0.138 J	0.0564 J	0.173	0.099 UJ	0.099 UJ	0.13	0.161	0.099 U	0.099 U	0.099 UJ	0.099 U	0.116	0.646	0.099 U	0.0646 J	0.25 U	0.349	0.524	0.549
230-B10	SS (1.5-2)	28-Oct-01	0.303	0.0929	0.203	0.0821 J	0.312	0.086 U	0.0387 J	0.19	0.135	0.086 U	0.419	0.0278 J	0.086 U	0.108	1.84	0.206	0.052 J	0.21 U	0.275	1.63	1.17
230-B11	SS (0.0-0.5)	29-Oct-01	0.0268 J	0.0224 J	0.0586 J	0.0225 J	0.0623 J	0.072 U	0.072 U	0.071	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.238	0.072 U	0.072 U	0.18 U	0.0356 J	0.117	0.15
230-B11	SS (1.5-2)	29-Oct-01	0.244	0.0865	0.157	0.0626 J	0.199	0.072 U	0.025 J	0.17	0.0588 J	0.072 U	0.137	0.0198 J	0.072 U	0.0205 J	1.12	0.0423 J	0.072 U	0.18 U	0.0329 J	0.139	0.757
230-B2	SS (0.0-0.5)	30-Oct-01	0.0401 J	0.08 U	0.0381 J	0.08 U	0.0272 J	0.08 U	0.08 U	0.092	0.08 U	0.08 U	0.08 U	0.08 U	0.327	0.08 U	0.0494 J	0.08 U	0.08 U	0.2 U	0.329	0.0257 J	0.0435 J
230-B2	SS (1.5-2)	30-Oct-01	0.0559 J	0.0168 J	0.0294 J	0.0147 J	0.0582 J	0.072 U	0.072 U	0.065	0.0742	0.072 U	0.0444 J	0.072 U	0.132	0.072 U	0.292	0.0929	0.072 U	0.18 U	0.342	0.148	0.214
230-B3	SS (0.0-0.5)	31-Oct-01	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.088	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U
230-B3	SS (1.5-2)	31-Oct-01	0.258	0.0901	0.151	0.0686 J	0.245	0.078 U	0.0277 J	0.17	0.325	0.078 U	0.335	0.0225 J	0.171	0.149	1.14	0.262	0.0243 J	0.2 U	0.427	0.562	0.882
230-B4	SS (0.0-0.5)	1-Nov-01	0.0696 J	0.0202 J	0.036 J	0.08 U	0.0664 J	0.08 U	0.08 U	0.075	0.0395 J	0.08 U	0.0484 J	0.08 U	0.08 U	0.0564 J	0.263	0.0303 J	0.08 U	0.2 U	0.0219 J	0.202	0.183
230-B4	SS (1.5-2)	1-Nov-01	0.323	0.0984	0.191	0.0806	0.298	0.076 U	0.0343 J	0.19	0.133	0.076 U	0.178	0.0294 J	0.076 U	0.0883	1.24	0.1	0.076 U	0.19 U	0.152	0.404	0.877
230-B5	SS (0.0-0.5)	2-Nov-01	0.144	0.0685 J	0.138	0.0583 J	0.176	0.08 U	0.08 U	0.14	0.0276 J	0.08 U	0.0542 J	0.08 U	0.185	0.08 U	0.37	0.0421 J	0.277	0.2 U	0.0636 J	0.143	0.368
230-B5	SS (1.5-2)	2-Nov-01	0.165	0.0899	0.128	0.0526 J	0.14	0.075 U	0.0251 J	0.16	0.259	0.075 U	0.132	0.019 J	0.075 U	0.136	0.453	0.18	0.0422 J	0.19 U	0.165	0.418	0.47
230-B6	SS (0.0-0.5)	3-Nov-01	0.107	0.0845	0.114	0.0426 J	0.0997	0.076 U	0.0586 J	0.15	0.076 U	0.076 U	0.0308 J	0.0524 J	0.076 U	0.076 U	0.19	0.076 U	0.076 U	0.19 U	0.076 U	0.0904	0.148
230-B6	SS (1.5-2)	3-Nov-01	0.0799	0.076 U	0.076 U	0.076 U	0.0257 J	0.076 U	0.076 U	0.092	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.0428 J	0.076 U	0.076 U	0.19 U	0.0532 J	0.076 U	0.032 J
230-B7	SS (0.0-0.5)	25-Apr-02	0.0544 J	0.065 J	0.101	0.031 J	0.0851	0.081 U	0.0675 J	0.13	0.081 U	0.081 U	0.0254 J	0.0618 J	0.081 U	0.081 U	0.0847	0.081 U	0.081 U	0.2 U	0.081 U	0.0572 J	0.0689 J
230-B7 DUP	SS (1.5-2)	25-Apr-02	0.0439 J	0.0259 J	0.0415 J	0.0208 J	0.0463 J	0.08 U	0.08 U	0.079	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.0983	0.08 U	0.08 U	0.2 U	0.08 U	0.0494 J	0.102
230-B7	SS (1.5-2)	25-Apr-02	0.03 J	0.0188 J	0.036 J	0.0153 J	0.0407 J	0.082 U	0.082 U	0.071	0.082 U	0.082 U	0.0189 J	0.082 U	0.082 U	0.082 U	0.0694 J	0.082 U	0.082 U	0.2 U	0.082 U	0.0467 J	0.0626 J
230-B8	SS (1.5-2)	4-May-02	0.0804 J	0.0474 J	0.0823 J	0.0311 J	0.0813 J	0.083 U	0.0273 J	0.11	0.786	0.083 U	0.136	0.0273 J	0.083 U	0.533	0.419	0.588	0.308	0.21 U	0.841	1.28	0.271
230-B9 DUP	SS (0.0-0.5)	4-Oct-01	0.0252 J	0.077 U	0.0602 J	0.022 J	0.0273 J	0.077 U	0.0947	0.095	0.077 U	0.0256 J	0.0402 J	0.0964	0.077 U	0.077 U	0.0412 J	0.077 U	0.077 U	0.19 U	0.077 U	0.0228 J	0.0316 J
230-B9	SS (0.0-0.5)	4-Oct-01	0.085	0.0249 J	0.0472 J	0.016 J	0.0474 J	0.071 U	0.071 U	0.077	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.357	0.071 U	0.071 U	0.18 U	0.071 U	0.187	0.235
230-B9	SS (1.5-2)	4-Oct-01	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.087	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.075 U
231-B1	SS (0.0-0.5)	5-Nov-01	0.0393 J	0.075 U	0.075 U	0.075 U	0.0177 J	0.075 U	0.075 U	0.087	0.075 U	0.075 U	0.075 U	0.075 U	0.0847	0.075 U	0.075 U	0.075 U	0.075 U	0.19 U	0.0449 J	0.075 U	0.075 U
231-B10	SS (0.0-0.5)	6-Nov-01	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.096	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.083 U
231-B11	SS (0.0-0.5)	7-Nov-01	0.0465 J	0.063 J	0.071 J	0.0248 J	0.0637 J	0.094 U	0.0419 J	0.13	0.094 U	0.094 U	0.094 U	0.142	0.094 U	0.094 U	0.0627 J	0.094 U	0.094 U	0.23 U	0.094 U	0.042 J	0.0606 J
231-B11	SB (8-10)	7-Nov-01	0.0354 J	0.0259 J	0.0469 J	0.085 U	0.0407 J	0.085 U	0.085 U	0.081	0.085 U	0.085 U	0.018 J	0.085 U	0.117	0.085 U	0.0696 J	0.085 U	0.085 U	0.21 U	0.058 J	0.0427 J	0.0551 J
231-B12	SS (0.0-0.5)	8-Nov-01	0.0227 J	0.0174 J	0.0428 J	0.0206 J	0.0406 J	0.075 U	0.075 U	0.065	0.075 U	0.075 U	0.075 U	0.0205 J	0.075 U	0.075 U	0.0466 J	0.075 U	0.075 U	0.19 U	0.075 U	0.0285 J	0.0402 J
231-B13	SS (0.0-0.5)	9-Nov-01	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.45	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.96 U	0.39 U	0.39 U	0.39 U
231-B13	SB (8-10)	9-Nov-01	0.0289 J	0.0225 J	0.0322 J	0.0144 J	0.0308 J	0.077 U	0.077 U	0.071	0.0323 J	0.077 U	0.0316 J	0.077 U	0.0222 J	0.0242 J	0.0739 J	0.0299 J	0.02 J	0.19 U	0.127	0.101	0.0662 J
231-B14	SS (0.0-0.5)	10-Nov-01	0.0264 J	0.082 U	0.0328 J	0.082 U	0.0256 J	0.082 U	0.082 U	0.092	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.044 J	0.082 U	0.082 U	0.2 U	0.082 U	0.0263 J	0.0341 J
231-B2	SS (0.0-0.5)	9-Sep-01	0.0488 J	0.074 U	0.0872	0.0285 J	0.0451 J	0.074 U	0.074 U	0.092	0.074 U	0.074 U	0.074 U	0.074 U	0.196	0.144	0.0683 J	0.074 U	0.074 U	0.18 U	0.142	0.074 U	0.0587 J
231-B2	SS (0.5-2)	9-Sep-01	0.25	0.205	0.311	0.126	0.247	0.074 U	0.102	0.31	0.0201 J	0.074 U	0.0725 J	0.0788	0.314	0.074 U	0.522	0.0182 J	0.074 U	0.18 U	0.144	0.187	0.528
231-B3	SS (0.0-0.5)	12-Nov-01	0.0609 J	0.03 J	0.0982	0.0368 J	0.0549 J	0.077 U	0.077 U	0.089	0.077 U	0.077 U	0.077 U	0.077 U	0.104	0.077 U	0.0824	0.077 U	0.077 U	0.19 U	0.077 U	0.0222 J	0.0986
231-B4	SS (0.0-0.5)	13-Nov-01	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.089	0.077 U	0.077 U	0.077 U	0.077 U	0.166	0.077 U	0.029 J	0.077 U	0.077 U	0.19 U	0.077 U	0.0209 J	0.0194 J
231-B4	SB (6-8)	13-Nov-01	0.019 J	0.08 U	0.0276 J	0.08 U	0.024 J	0.08 U	0.08 U	0.089	0.0677 J	0.08 U	0.104	0.08 U	0.225	0.08 U	0.0438 J	0.08 U	0.039 J	0.2 U	5.33	0.0683 J	0.0443 J
231-B5	SS (0.5-2)	10-Sep-01	0.162	0.0833 J	0.149	0.0627 J	0.175	0.084 U	0.0343 J	0.16	0.103	0.0203 J	0.197	0.029 J	0.565	0.0841	0.82	0.193	0.084 U	0.21 U	0.084 U	0.508	0.616
231-B6	SS (0.0-0.5)	14-Nov-01	0.241	0.091 U	0.091 U	0.091 U	0.0701 J	0.091 U	0.091 U	0.12	0.0984	0.091 U	0.0293 J	0.091 U	1.34	0.077 J	0.129	0.0743 J	0.496	0.23 U	0.612	0.186	0.116
231-B6	SB (4-6)	14-Nov-01	0.064 J	0.0497 J	0.122	0.0473 J	0.0743 J	0.075 U	0.0401 J	0.11	0.075 U	0.075 U	0.022 J	0.0337 J	0.075 U	0.075 U	0.167	0.075 U	0.075 U	0.19 U	0.075 U	0.123	0.137
231-B7 DUP	SS (0.0-0.5)	6-Oct-01	0.191 J	0.43 U	0.43 U	0.43 U	0.393 J	0.43 U	0.43 U	0.49	0.43 U	0.43 U	0.0705 J	0.43 U	0.43 U	0.43 U	0.369 J	0.43 U	0.43 U	1.1 U	0.43 U	0.203 J	0.383 J
231-B7	SS (0.0-0.5)	6-Oct-01	0.225 J	0.41 U	0.41 U	0.41 U	0.501	0.41 U	0.41 U	0.48	0.41 U	0.41 U	0.0766 J	0.41 U	0.41 U	0.41 U	0.258 J	0.41 U	0.41 U	1 U	0.41 U	0.265 J	0.372 J
231-B8	SS (0.0-0.5)	15-Nov-01	0.146 J	0.129 J	0.341 J	0.119 J	0.2 J	0.16 UJ	0.102 J	0.27	0.16 UJ	0.16 UJ	0.245 J	0.108 J	0.0421 J	0.16 UJ	0.501 J	0.16 UJ	0.0883 J	0.39 UJ	0.0733 J	0.21 J	0.574 J
231-B8	SB (8-10)	15-Nov-01	6.5 UJ	6.5 UJ	6.5 UJ	6.5 UJ	6.5 U	6.5 UJ	6.5 UJ	7.5	6.5 U	6.5 U	9.22	6.5 UJ	7.48	2.93 J	2.81 J	6.5 U	1.72 J	16 U	49.1	5.37 J	4.55 J
231-B9	SS (0.0-0.5)	11-Sep-01	0.174 J	0.138 J	0.282 J	0.153 J	0.185 J	0.47 UJ	0.47 UJ	0.44	0.47 U	0.47 U	0.47 U	0.47 UJ	0.47 U	0.47 U	0.438 J	0.47 U	0.47 U	1.2 U	0.47 U	0.219 J	0.483
231-B9	SS (0.5-2)	11-Sep-01	0.0589 J	0.0324 J	0.0655 J	0.0232 J	0.0879 J	0.094 U	0.094 U	0.097	0.094 U	0.094 U	0.0972	0.094 U	0.101	0.094 U	0.198	0.094 U	0.094 U	0.23 U	0.064 J	0.0744 J	0.212
240-1	SS (0.0-0.5)	17-Nov-01	0.141	0.087	0.162	0.0594 J	0.158	0.081 U	0.081 U	0.16	0.0479 J	0.081 U	0.178	0.081 U	0.269	0.0482 J	0.726	0.0897	0.081 U	0.2 U	0.0824	0.136	0.493
240-1	SB (8-10)	17-Nov-01	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.094	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.2 U	0.081 U	0.081 U	0.081 U
5K-B1	SS (0.0-0.5)	18-Nov-01	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.47	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.153 J	0.41 U	0.41 U	1 U	0.41 U	0.152 J	0.177 J
5K-B2	SS (0.0-0.5)	19-Nov-01	0.071 UJ	0.071 UJ	0.071 UJ	0.071 UJ	0.071 U	0.071 UJ	0.071 UJ	0.082	0.071 U	0.071 U	0.071 U	0.071 UJ	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.18 U	0.071 U	0.071 U	0.071 U
5K-B2	SB (8-10)	19-Nov-01	0.103	0.0376 J	0.0527 J	0.0206 J	0.0945	0.082 U	0.082 U	0.099	0.102	0.082 U	0.185	0.082 U	0.129	0.117	0.7	0.181	0.082 U	0.2 U	0.518	0.964	0.386
5K-B3	SS (0.0-0.5)	20-Nov-01	0.061 J	0.046 J	0.0845 J	0.0279 J	0.0609 J	0.08 UJ	0.08 UJ	0.10	0.08 U	0.08 U	0.018 J	0.08 UJ	0.08 U	0.08 U	0.0579 J	0.08 U	0.08 U	0.2 U	0.0647 J	0.0285 J	0.114
5K-B4	SS (0.0-0.5)	21-Nov-01	0.46 UJ	0.46 UJ	0.46 UJ	0.46 UJ	0.46 U	0.46 UJ	0.46 UJ	0.53	0.46 U	0.46 U	0.264 J	0.46 UJ	0.262 J	0.46 U	0.46 U	0.46 U	0.46 U	1.2 U	0.658	0.46 U	0.46 U
5K-B4	SB (4-6)	21-Nov-01	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.64	2.79	0.55 U	50.2	0.55 U	0.423 J	2.85	0.71	1.79	5.17	1.4 U	99.6	3.11	0.94
5K-B5	SS (0.0-0.5)	22-Nov-01	0.758	0.288	0.589	0.232	0.69	0.078 U	0.078 U	0.47	2.16	0.078 U	1.73	0.078 U	76.8	3.21	5.59	0.707	0.078 U	0.2 U	0.738	6.18	2.3
5K-B5 DUP	SB (4-6)	22-Nov-01	0.0887 J	0.09 UJ	0.0645 J	0.09 UJ	0.0749 J	0.09 UJ	0.09 UJ	0.11	0.082 J	0.09 U	0.269	0.09 UJ	0.463	1.51	0.34	0.0542 J	0.0453 J	0.22 U	8.21	0.275	0.377
5K-B5	SB (4-6)	22-Nov-01	0.231	0.045 J	0.101	0.0496 J	0.152	0.087 U	0.087 U	0.13	0.203	0.087 U	0.441	0.087 U	5.53	0.894	0.819	0.0802 J	0.087 U	0.22 U	5.07	0.883	0.794
AB-1	SS (0.0-0.5)	23-Nov-01	0.187	0.117	0.304	0.0948	0.177	0.078 U	0.078 U	0.21	0.078 U	0.078 U	0.0641 J	0.078 U	37	0.037 J	0.452	0.078 U	0.0196 J	0.2 U	1.66	0.259	0.384
AB-2	SS (0.0-0.5)	12-Sep-01	0.0707 J	0.0516 J	0.125	0.0436 J	0.088	0.081 U	0.0339 J	0.12	0.081 U	0.081 U	0.0233 J	0.0295 J	0.0926	0.081 U	0.161	0.081 U	0.081 U	0.2 U	0.0288 J	0.0724 J	0.122
AB-2	SS (0.5-2)	12-Sep-01	0.0681 J	0.0311 J	0.0784 J	0.0284 J	0.084 J	0.087 UJ	0.087 U	0.094	0.087 U	0.087 U	0.0383 J	0.087 UJ	2.26	0.0451 J	0.307	0.087 U	0.0605 J	0.22 U	0.117	0.25	0.261
ADN-1	SS (0.0-0.5)	25-Nov-01	0.23	0.316	0.528	0.181	0.384	0.0381 J	0.136	0.45	0.633	0.0392 J	0.321	0.114	0.076 U	0.384	0.844	0.464	0.433	0.19 U	0.266	1.4	0.884
ADN-1 DUP	SB (8-10)	25-Nov-01	1.07	0.323	0.525	0.205	1.04	0.0257 J	0.0825 J	0.52	7.85	0.084 U	2.59	0.0639 J	0.628	8.12	6.05	6.79	20.1	0.21 U	3.95	13.3	3.02
ADN-1	SB (8-10)	25-Nov-01	0.469	0.139	0.222	0.0865 J	0.477	0.096 U	0.0346 J	0.26	2.6	0.096 U	1.48	0.0319 J	0.81	2.73	2	2.42	7.15	0.24 U	2.82	4.32	1.34
ADN-2	SS (0.0-0.5)	26-Nov-01	0.082 U	0.082 U	0.0378 J	0.0154 J	0.082 U	0.082 U	0.027 J	0.093	0.082 U	0.082 U	0.082 U	0.027 J	0.082 U	0.082 U	0.0354 J	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.0328 J
ADS-1	SS (0.0-0.5)	27-Nov-01	0.285 J	0.182 J	0.584	0.181 J	0.33 J	0.37 U	0.37 U	0.47	0.37 U	0.103 J	0.275 J	0.37 U	0.37 U	0.37 U	0.548	0.37 U	0.37 U	0.94 U	0.111 J	0.205 J	0.455
ADS-10	SS (0.0-0.5)	28-Nov-01	0.203	0.27	0.887	0.233	0.443	0.0868	0.557	0.52	0.077 U	0.0843	0.18	0.491	0.077 U	0.107	0.538	0.077 U	0.183	0.19 U	0.153	0.324	0.591
ADS-10	SB (4-6)	28-Nov-01	0.0422 J	0.0242 J	0.0421 J	0.0196 J	0.0761 J	0.095 U	0.095 U	0.085	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.0564 J	0.095 U	0.095 U	0.24 U	0.0352 J	0.077 J	0.0578 J
ADS-101	SS (0-1)	21-Mar-02	0.0339 J	0.0204 J	0.0328 J	0.029 U	0.0478 J	0.02 U	0.025 U	0.039	0.02 U	0.016 U	0.015 U	0.021 U	0.054 U	0.018 U	0.0577 J	0.016 U	0.025 U	0.038 U	0.0231 J	0.0369 J	0.0439 J
ADS-101	SS (1-3)	21-Mar-02	0.018 U	0.013 U	0.017 U	0.029 U	0.014 U	0.02 U	0.024 U	0.020	0.019 U	0.015 U	0.015 U	0.021 U	0.053 U	0.018 U	0.013 U	0.015 U	0.025 U	0.037 U	0.021 U	0.017 U	0.013 U
ADS-102	SS (0-1.5)	21-Apr-02	0.0478 J	0.0359 J	0.0507 J	0.028 U	0.0493 J	0.02 U	0.0322 J	0.059	0.0591 J	0.023 J	0.0564 J	0.0387 J	0.052 U	0.0335 J	0.117	0.0536 J	0.0819	0.037 U	0.234	0.184	0.0934

ATTACHMENT A
Supplemental Data Tables

Table A-1.6a
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds (Polycyclic Aromatic Hydrocarbons)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Carcinogenic Polycyclic Aromatic Hydrocarbons (mg/kg)								Polycyclic Aromatic Hydrocarbons (mg/kg)												
			Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,H) Anthracene	Indeno (1,2,3-C,d) Pyrene	Benzo(a) pyrene TEQ	Acenaph thene	Acenaph thylene	Anthracene	Benzo (g,H,i) Perylene	2-Chloro naphthalene	Dibenzo furan	Fluoran thene	Fluorene	2-Methyl naphthalene	2-Methyl phenol	Naphthalene	Phenanthrene	Pyrene
		TEF:	0.1	1	0.1	0.01	0.001	1	0.1														
ADS-102	SB (7-8)	21-Apr-02	0.0259 J	0.0292 J	0.0235 J	0.0318 J	0.0245 J	0.021 U	0.026 U	0.046	0.021 U	0.016 U	0.016 U	0.0222 J	0.056 U	0.019 U	0.014 U	0.016 U	0.026 U	0.039 U	0.023 U	0.018 U	0.014 U
ADS-11	SS (0.0-0.5)	29-Nov-01	0.438	0.445	2.05	0.768	1.47	0.124	0.729	0.90	0.076 U	0.128	0.226	0.587	0.076 U	0.103	1.85	0.076 U	0.14	0.19 U	0.118	0.477	1.8
ADS-12	SS (0.0-0.5)	13-Sep-01	0.0498 J	0.0449 J	0.111	0.0451 J	0.0778 J	0.085 U	0.0433 J	0.11	0.085 U	0.085 U	0.085 U	0.0395 J	0.085 U	0.085 U	0.0972	0.085 U	0.085 U	0.21 U	0.085 U	0.0685 J	0.0848 J
ADS-12	SS (0.5-2)	13-Sep-01	0.0467 J	0.0538 J	0.0826 J	0.0319 J	0.0718 J	0.087 U	0.087 U	0.11	0.087 U	0.087 U	0.087 U	0.0596 J	0.087 U	0.087 U	0.0717 J	0.087 U	0.087 U	0.22 U	0.087 U	0.0601 J	0.0751 J
ADS-2 DUP	SS (0.0-0.5)	8-Oct-01	0.074 U	0.074 U	0.0384 J	0.0168 J	0.074 U	0.074 U	0.074 U	0.085	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.0412 J	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.0383 J
ADS-2	SS (0.0-0.5)	8-Oct-01	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.092	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U
ADS-2	SB (4-6)	8-Oct-01	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.094	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.2 U	0.081 U	0.081 U	0.081 U
ADS-3	SS (0.0-0.5)	1-Dec-01	0.0458 J	0.0274 J	0.0603 J	0.0234 J	0.0478 J	0.078 UJ	0.078 UJ	0.081	0.078 U	0.078 U	0.0206 J	0.078 UJ	0.055 J	0.078 U	0.097	0.078 U	0.078 U	0.19 U	0.0482 J	0.0792	0.156
ADS-4	SS (0.0-0.5)	2-Dec-01	0.377	0.375 J	0.529 J	0.236 J	0.34	0.0797 J	0.333 J	0.58	0.077 U	0.077 U	0.0929	0.254 J	0.156	0.077 U	0.493	0.077 U	0.077 U	0.19 U	0.204	0.251	0.733
ADS-5	SS (0.0-0.5)	3-Dec-01	0.36 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.42	0.36 U	0.36 U	0.36 U	0.36 UJ	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.9 U	0.36 U	0.36 U	0.36 UJ
ADS-5 DUP	SB (4-6)	3-Dec-01	0.074 U	0.074 U	0.074 U	0.074 U	0.0272 J	0.074 U	0.074 U	0.085	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U
ADS-5	SB (4-6)	3-Dec-01	0.074 U	0.074 U	0.074 U	0.074 U	0.0359 J	0.074 U	0.074 U	0.086	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.0191 J	0.074 U	0.074 U	0.19 U	0.074 U	0.074 U	0.0264 J
ADS-6	SS (0.0-0.5)	14-Sep-01	0.227 J	0.119 J	0.38 U	0.38 U	0.201 J	0.38 U	0.38 U	0.37	0.38 U	0.38 U	0.0534 J	0.38 U	0.38 U	0.38 U	0.25 J	0.38 U	0.38 U	0.95 U	0.38 U	0.246 J	0.36 J
ADS-6	SS (0.5-2)	14-Sep-01	0.208	0.118	0.23	0.0832	0.205	0.076 U	0.0729 J	0.21	0.0968	0.076 U	0.115	0.066 J	0.297	0.0583 J	0.585	0.0802	0.076 U	0.19 U	0.277	0.369	0.663
ADS-7	SS (0.0-0.5)	5-Dec-01	0.296 J	0.114 J	0.465	0.147 J	0.711	0.36 U	0.36 U	0.39	0.36 U	0.36 U	0.246 J	0.36 U	0.36 U	0.36 U	2.25	0.36 U	0.36 U	0.9 U	0.36 U	0.825	0.892
ADS-8	SS (0.0-0.5)	6-Dec-01	0.0369 J	0.082 U	0.143	0.0559 J	0.075 J	0.082 U	0.0471 J	0.11	0.082 U	0.082 U	0.0226 J	0.045 J	0.082 U	0.082 U	0.0878	0.082 U	0.082 U	0.21 U	0.082 U	0.0403 J	0.0821
ADS-8	SB (4-6)	6-Dec-01	0.028 J	0.083 U	0.0884	0.0322 J	0.0577 J	0.083 U	0.083 U	0.10	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.0511 J	0.083 U	0.411	0.21 U	0.159	0.0972	0.0687 J
ADS-9	SS (0.0-0.5)	7-Dec-01	0.0666 J	0.0591 J	0.186	0.0579 J	0.152	0.086 U	0.0792 J	0.14	0.086 U	0.086 U	0.0495 J	0.0888	0.086 U	0.086 U	0.145	0.086 U	0.0513 J	0.22 U	0.086 U	0.12	0.136
BT-B1	SS (0.0-0.5)	8-Dec-01	0.036 J	0.0284 J	0.05 J	0.0157 J	0.051 J	0.081 U	0.081 U	0.082	0.081 U	0.081 U	0.025 J	0.081 U	0.081 U	0.081 U	0.0601 J	0.081 U	0.081 U	0.2 U	0.081 U	0.249	0.0496 J
BT-B2	SS (0.0-0.5)	15-Sep-01	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.10	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.053 J	0.22 U	0.066 J	0.199	0.086 U
BT-B2	SS (0.5-2)	15-Sep-01	0.0392 J	0.079 U	0.0391 J	0.0126 J	0.0345 J	0.079 U	0.079 U	0.091	0.079 U	0.079 U	0.0149 J	0.079 U	0.079 U	0.079 U	0.0586 J	0.079 U	0.079 U	0.2 U	0.079 U	0.0353 J	0.0443 J
BT-B3	SS (0.0-0.5)	10-Dec-01	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.45	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.0909 J	0.39 U	0.39 U	0.96 U	0.39 U	0.39 U	0.108 J
BT-B4	SS (0.0-0.5)	16-Sep-01	0.34 U	0.34 UJ	0.34 UJ	0.34 UJ	0.34 U	0.34 UJ	0.34 UJ	0.39	0.34 U	0.34 U	0.34 U	0.34 UJ	0.34 U	0.34 U	0.34 U	0.34 U	0.13 J	0.84 U	0.34 U	0.11 J	0.0883 J
BT-B4	SS (0.5-2)	16-Sep-01	0.0452 J	0.0362 J	0.047 J	0.077 UJ	0.082	0.077 UJ	0.077 UJ	0.088	0.0587 J	0.077 U	0.0445 J	0.077 UJ	0.137	0.0458 J	0.155	0.076 J	0.0403 J	0.19 U	0.046 J	0.168	0.284
BT-B5 DUP	SS (0.0-0.5)	10-Oct-01	0.172	0.126	0.262	0.0968	0.219	0.075 U	0.0724 J	0.22	0.0339 J	0.075 U	0.0661 J	0.0583 J	0.075 U	0.0523 J	0.481	0.041 J	0.0246 J	0.19 U	0.0232 J	0.233	0.588
BT-B5	SS (0.0-0.5)	10-Oct-01	0.0622 J	0.042 J	0.0969 J	0.0324 J	0.0751 J	0.081 UJ	0.081 UJ	0.10	0.0333 J	0.081 U	0.0325 J	0.081 UJ	0.081 U	0.054 J	0.195	0.039 J	0.025 J	0.2 U	0.0222 J	0.127	0.296
BT-B6	SS (0.0-0.5)	17-Sep-01	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.39	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.86 U	0.34 U	0.34 U	0.34 U
BT-B6	SS (0.5-2)	17-Sep-01	0.155	0.136	0.218	0.0784 J	0.188	0.088 U	0.088 U	0.22	0.088 U	0.088 U	0.0356 J	0.0415 J	0.114	0.088 U	0.399	0.088 U	0.088 U	0.22 U	0.0475 J	0.125	0.283
CF-1	SS (0.0-0.5)	13-Dec-01	0.0274 J	0.0262 J	0.0485 J	0.0187 J	0.0343 J	0.074 U	0.0345 J	0.074	0.074 U	0.074 U	0.0163 J	0.0382 J	0.0748	0.074 U	0.0482 J	0.074 U	0.074 U	0.18 U	0.074 U	0.0304 J	0.0382 J
CF-1 DUP	SB (2-4)	13-Dec-01	0.239	0.141	0.241	0.1	0.244	0.044 J	0.147	0.25	0.541	0.075 U	0.189	0.133	0.075 U	0.227	0.663	0.26	0.0382 J	0.19 U	0.051 J	0.69	0.409
CF-1	SB (2-4)	13-Dec-01	0.298	0.229	0.256	0.0958	0.268	0.0389 J	0.154	0.34	0.264	0.074 U	0.236	0.158	0.074 U	0.107	0.706	0.201	0.0673 J	0.19 U	0.0707 J	0.827	0.54
CF-5	SS (0.0-0.5)	14-Dec-01	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.081	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.17 U	0.07 U	0.07 U	0.07 U
CF-5	SB (4-6)	14-Dec-01	0.0756	0.0726 J	0.116	0.0451 J	0.0921	0.075 U	0.0553 J	0.14	0.075 U	0.075 U	0.0108 J	0.0506 J	0.075 U	0.075 U	0.133	0.075 U	0.075 U	0.19 U	0.075 U	0.054 J	0.137
CF-6 DUP	SS (0.0-0.5)	12-Oct-01	0.0534 J	0.0603 J	0.0838	0.0301 J	0.0665 J	0.077 U	0.077 U	0.12	0.077 U	0.077 U	0.0134 J	0.0377 J	0.077 U	0.077 U	0.106	0.077 U	0.077 U	0.19 U	0.077 U	0.0396 J	0.115
CF-6	SS (0.0-0.5)	12-Oct-01	0.0948	0.0901	0.144	0.0601 J	0.111	0.077 U	0.0598 J	0.16	0.077 U	0.077 U	0.0166 J	0.0527 J	0.077 U	0.077 U	0.198	0.077 U	0.077 U	0.19 U	0.077 U	0.0892	0.168
CF-7	SS (0.0-0.5)	15-Dec-01	0.0847	0.0785	0.122	0.0417 J	0.0957	0.075 U	0.0526 J	0.14	0.075 U	0.075 U	0.0236 J	0.0497 J	0.075 U	0.075 U	0.159	0.075 U	0.075 U	0.19 U	0.075 U	0.103	0.157
CF-7	SB (4-6)	15-Dec-01	0.196	0.156 J	0.257 J	0.105 J	0.197	0.07 UJ	0.0976 J	0.25	0.0423 J	0.07 U	0.103	0.11 J	0.07 U	0.0435 J	0.419	0.0385 J	0.06 J	0.18 U	0.104	0.345	0.545
CF-8	SS (0.0-0.5)	16-Dec-01	0.237	0.221	0.308	0.121	0.242	0.077 U	0.114	0.33	0.0664 J	0.077 U	0.092	0.113	0.077 U	0.0575 J	0.511	0.0596 J	0.0999	0.19 U	0.0464 J	0.389	0.514
CF-9	SS (0.0-0.5)	18-Sep-01	0.0446 J	0.0282 J	0.0396 J	0.0152 J	0.0414 J	0.074 U	0.0223 J	0.076	0.074 U	0.074 U	0.074 U	0.0231 J	0.147	0.074 U	0.0786	0.074 U	0.074 U	0.18 U	0.074 U	0.0223 J	0.0673 J
CF-9	SS (0.5-2)	18-Sep-01	0.023 J	0.072 U	0.072 U	0.072 U	0.0271 J	0.072 U	0.072 U	0.082	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.0363 J	0.072 U	0.072 U	0.18 U	0.072 U	0.0242 J	0.0353 J
DC-B12	SS (0.0-0.5)	18-Dec-01	0.225	0.0658 J	0.076 U	0.076 U	0.0937	0.076 U	0.076 U	0.13	0.038 J	0.076 U	2.62	0.076 U	0.129	0.0424 J	0.226	0.0397 J	0.0722 J	0.19 U	7.87	0.152	0.251
DC-B12	SB (2-4)	18-Dec-01	0.16	0.0709 J	0.102	0.0437 J	0.116	0.073 U	0.073 U	0.14	0.073 U	0.073 U	0.0421 J	0.039 J	0.073 U	0.073 U	0.239	0.073 U	0.073 U	0.18 U	0.115	0.115	0.342
DC-SED1	SS (0.0-0.5)	19-Dec-01	0.806 J	2.68 J	5.46 J	1.75 J	2.16 J	0.78 UJ	1.32 J	3.8	0.78 UJ	0.78 UJ	0.271 J	1.16 J	0.78 UJ	0.78 UJ	1.96 J	0.78 UJ	0.78 UJ	1.9 UJ	0.78 UJ	0.748 J	1.84 J
DC-SED2	SS (0.0-0.5)	20-Dec-01	1.35	0.937	1.19	0.528 J	1.31	0.61 U	0.415 J	1.5	0.15 J	0.61 U	0.35 J	0.434 J	0.61 U	0.61 U	2.9	0.61 U	0.61 U	1.5 U	0.61 U	1.47	2.16
DC-SED3	SS (0.0-0.5)	21-Dec-01	0.168 J	0.164 J	0.303 J	0.0884 J	0.303 J	0.24 UJ	0.107 J	0.34	0.174 J	0.24 UJ	0.106 J	0.106 J	0.24 UJ	0.175 J	0.576 J	0.166 J	0.287 J	0.6 UJ	0.197 J	0.75 J	0.511 J
DC-SS1	SS (0.0-0.5)	22-Dec-01	0.489	0.66	1.22	0.465	0.722	0.081	0.272	0.94	0.073 U	0.187	0.0738	0.228	0.073 U	0.073 U	1.33	0.073 U	0.073 U	0.18 U	0.073 U	0.354	0.758
DC-SS11	SS (0.0-0.5)	23-Dec-01	8.9 J	4.5 J	7.68 J	3.6 J	6.57	0.201 J	0.696 J	6.5	22.4	0.552	7.51	0.584 J	0.37 U	12.4	34.1	17.3	10.8	0.92 U	51.2	55.1	21.8
DC-SS13	SS (0.0-0.5)	24-Dec-01	0.169 J	0.124 J	0.226 J	0.0898 J	0.242 J	0.35 U	0.35 U	0.36	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.275 J	0.35 U	0.35 U	0.86 U	0.35 U	0.122 J	0.202 J
DC-SS15	SS (0.0-0.5)	25-Dec-01	2.5	1.75	3.57	1.54	3.74	0.41 U	0.419	2.6	1.75	0.147 J	1.92	0.292 J	0.41 U	1.26	11.4	1.1	0.534	1 U	0.374 J	6.49	6.36
DC-SS17	SS (0.0-0.5)	26-Dec-01	3.14 J	1.43 J	3.52 J	1.31 J	3.33	0.0809 J	0.27 J	2.2	3.32	0.173	3.07	0.21 J	0.085 U	1.31	14.9	1.08	0.413	0.21 U	0.901	8.63	10.5
DC-SS18	SS (0.0-0.5)	27-Dec-01	0.171	0.091	0.161	0.0626 J	0.157	0.077 U	0.077 U	0.17	0.23	0.077 U	0.197	0.077 U	0.077 U	0.162	0.69	0.242	0.0449 J	0.19 U	0.113	0.854	0.375
DC-SS2	SS (0.0-0.5)	28-Dec-01	0.0398 J	0.074 U	0.0819	0.0365 J	0.0535 J	0.074 U	0.074 U	0.090	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.0731 J	0.074 U	0.074 U	0.18 U	0.074 U	0.0352 J	0.0527 J
DC-SS3	SS (0.0-0.5)	29-Dec-01	0.0421 J	0.088 U	0.0878 J	0.0366 J	0.052 J	0.088 U	0.088 U	0.11	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.126	0.088 U	0.088 U	0.22 U	0.0363 J	0.0967	0.0756 J
DC-SS6	SS (0.0-0.5)	30-Dec-01	0.06 J	0.0357 J	0.0953	0.0369 J	0.0691 J	0.075 U	0.023 J	0.091	0.075 U	0.075 U	0.0197 J	0.075 U	0.075 U	0.075 U	0.152	0.075 U	0.075 U	0.19 U	0.106	0.0659 J	0.102
DC-SS7	SS (0.0-0.5)	31-Dec-01	0.0306 J	0.076 U	0.0684 J	0.0336 J	0.0403 J	0.076 U	0.076 U	0.090	0.076 U	0.076 U	0.0104 J	0.076 U	0.076 U	0.076 U	0.085	0.076 U	0.076 U	0.19 U	0.076 U	0.0341 J	0.0542 J
DC-SS9	SS (0.0-0.5)	1-Jan-02	0.193	0.101	0.187	0.0703 J	0.187	0.076 U	0.076 U	0.18	0.198	0.076 U	0.166	0.076 U	0.0426 J	0.149	0.674	0.217	0.0321 J	0.19 U	0.0328 J	0.792	0.425
DSP-1	SS (0.0-0.5)	2-Jan-02	0.0347 J	0.0299 J	0.0565 J	0.0261 J	0.0475 J	0.082 U	0.0324 J	0.084	0.082 U	0.082 U	0.082 U	0.0365 J	0.082 U	0.082 U	0.0546 J	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.0579 J
DSP-1	SB (4-6)	2-Jan-02	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.095	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.21 U	0.082 U	0.082 U	0.082 U
DSP-2	SS (0.0-0.5)	3-Jan-02	0.0433 J	0.0474 J	0.0869 UJ	0.0332 J	0.0551 J	0.074 UJ	0.0269 J	0.096	0.074 U	0.074 U	0.074 U	0.0258 J	0.074 U	0.074 U	0.0813	0.074 U	0.0192 J	0.18 U	0.074 U	0.0416 J	0.127
DSP-3	SS (0.0-0.5)	4-Jan-02	0.38 U	0.38 UJ	0.38 UJ	0.38 UJ	0.38 U	0.38 UJ	0.38 U	0.44	0.38 U	0.38 U	0.38 U	0.38 UJ	0.38 U	0.38 U	0.38 U	0.38 U	0.584	0.94 U	0.243 J	0.38 U	0.183 J
DSP-3	SB (2-4)	4-Jan-02	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.096	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.0228 J	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.083 U
DSP-4	SS (0.0-0.5)	5-Jan-02	0.0224 J	0.0217 J	0.0554 J	0.0257 J	0.0392 J	0.085 UJ	0.085 U	0.077	0.085 U	0.085 U	0.085 U	0.085 UJ	0.085 U	0.085 U	0.0644 J	0.085 U	0.0279 J	0.21 U	0.085 U	0.0445 J	0.0619 J
DSP-4	SB (4-6)	5-Jan-02	0.0273 J	0.086 U	0.0262 J	0.086 U	0.0365 J	0.086 U	0.086 U	0.096	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.0346 J	0.086 U	0.0625 J	0.21 U	0.0481 J	0.0608 J	0.0365 J
ESR-1	SS (0-1)	22-Mar-02	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.082	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.0189 J	0.071 U	0.071 U	0.18 U	0.071 U	0.071 U	0.071 U
ESR-1	SB (4-6)	22-Mar-02	0.0251 J	0.0308 J	0.083 UJ	0.083 UJ	0.0493 J	0.083 UJ	0.083 U	0.084	0.083 U	0.083 U	0.083 U	0.083 UJ	0.083 U	0.083 U	0.021 J	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.0586 J
HB-102A	SS (0-0)	30-Sep-01	0.029 U	0.021 U	0.027 U	0.045 U	0.022 U	0.031 U	0.038 U	0.031	0.031 U	0.024 U	0.023 U	0.033 U	0.084 U	0.028 U	0.021 U	0.024 U	0.039 U	0.059 U	0.034 U	0.026 U	0.021 U
HB-102B	SS (0-0)	1-Oct-01	0.0483 J	0.014 U	0.019 U	0.031 U	0.0624 J	0.021 U	0.026 U	0.025	0.103	0.016 U	0.0897	0.022 U	0.057 U	0.0871	0.239	0.123	0.027 U	0.04 U	0.154	0.482	0.148
HB-102C	SS (0-0)	2-Oct-01	0.018 U	0.013 U	0.017 U	0.028 U	0.014 U	0.02 U	0.024 U	0.020	0.019 U	0.015 U	0.015 U	0.021 U	0.053 U	0.018 U	0.0232 J	0.015 U	0.025 U	0.037 U	0.021 U	0.0423 J	0.0151 J
HB-105E	SS (0-0)	3-Oct-01	0.02 U	0.014 U	0.018 U	0.03 U	0.015 U	0.021 U	0.026 U	0.021	0.021 U	0.016 U	0.016 U	0.022 U	0.057 U	0.019 U	0.014 U	0.016 U	0.026 U	0.04 U	0.023 U	0.018 U	0.014 U
HB-1A	SB (6.75-6.75)	9-Jun-02	0.145	0.0199 J	0.0379 J	0.12 U	0.0871 J	0.12 U	0.12 U	0.10	0.7	0.12 U	0.152	0.12 U	0.12 U	0.488	0.594	0.6	0.604	0.3 U	14.6	1.57	0.392
HB-3A DUP	SB (5.25-5.25)	11-Jun-02	0.319	0.0947 J	0.146 J	0.0553 J	0.284	0.18 U	0.18 U	0.24	1.35	0.18 U	0.622	0.18 U	0.18 U	0.928	2.03	1.45	0.224	0.46 U	0.437	4.2	1.39
HB-3A	SB (5.25-5.25)	11-Jun-02	0.507	0.14 J	0.219	0.0876 J	0.381	0.21 U	0.0637 J	0.33	2.05	0.21 U	0.966	0.0525 J	0.21 U	1.43	3.1	2.25	0.35	0.52 U	0.679	6.42	2.22
HB-3B	SB (4.5-4.5)	12-Jun-02	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.090	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.2 U	0.078 U	0.078 U	0.078 U
HB-3C	SB (4.5-4.5)	13-Jun-02	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.089	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.04 J	0.077 U	0.077 U	0.19 U	0.077 U	0.0484 J	0.0261 J

ATTACHMENT A
Supplemental Data Tables

Table A-1.6a
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds (Polycyclic Aromatic Hydrocarbons)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Carcinogenic Polycyclic Aromatic Hydrocarbons (mg/kg)								Polycyclic Aromatic Hydrocarbons (mg/kg)												
			Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,H) Anthracene	Indeno (1,2,3-C,d) Pyrene	Benzo(a) pyrene TEQ	Acenaph thene	Acenaph thylene	Anthracene	Benzo (g,H,i) Perylene	2-Chloro naphthalene	Dibenzo furan	Fluoran thene	Fluorene	2-Methyl naphthalene	2-Methyl phenol	Naphthalene	Phenanthrene	Pyrene
		TEF:	0.1	1	0.1	0.01	0.001	1	0.1														
HB-3D	SB (4.5-4.5)	14-Jun-02	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.092	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.113 J	0.08 U	0.08 U	0.08 U
HB-4A	SB (5.33-5.33)	15-Jun-02	0.0507 J	0.0292 J	0.0507 J	0.023 J	0.064 J	0.078 U	0.0168 J	0.080	0.081	0.078 U	0.0618 J	0.0138 J	0.078 U	0.0517 J	0.253	0.0764 J	0.078 U	0.0432 J	0.0923	0.27	0.183
HB-5A	SB (3-3)	16-Jun-02	0.587	0.198	0.381	0.128	0.571	0.083 U	0.0837	0.35	1.02	0.083 U	1.13	0.0683 J	0.083 U	0.641	3.59	0.879	0.448	0.21 U	0.843	2.42	2.5
HB-7A	SB (5-5)	17-Jun-02	0.16	0.0947	0.129	0.0551 J	0.167	0.083 U	0.0527 J	0.17	0.307	0.083 U	0.214	0.0459 J	0.083 U	0.142	0.665	0.305	0.1	0.21 U	0.398	0.907	0.464
HB-8A	SB (3-3)	18-Jun-02	0.0985	0.134	0.163	0.0781 J	0.131	0.08 U	0.179	0.22	0.04 J	0.08 U	0.0549 J	0.201	0.177	0.0415 J	0.227	0.0746 J	0.0294 J	0.2 U	0.182	0.245	0.198
HB-8B	SB (4.83-4.83)	19-Jun-02	0.0403 J	0.079 U	0.079 U	0.079 U	0.0406 J	0.079 U	0.079 U	0.091	0.119	0.079 U	0.0496 J	0.079 U	0.079 U	0.0602 J	0.229	0.0917	0.079 U	0.2 U	0.366	0.371	0.158
HB-8C	SB (5.5-5.5)	20-Jun-02	0.116	0.0608 J	0.0904	0.0437 J	0.145	0.082 U	0.0451 J	0.13	0.272	0.082 U	0.221	0.0333 J	0.134	0.233	0.646	0.214	0.197	0.101 J	5.35	0.798	0.478
HB-9A	SB (4.75-4.75)	21-Jun-02	2	0.638	1	0.382	2.27	0.0613 J	0.248	1.0	4.61	0.105	9.65	0.204	1.73	3.57	8.88	4.91	1.99	0.21 U	2.47	15.9	6.09
HF-B1	SS (0.0-0.5)	6-Jan-02	0.395	0.529	1.1	0.458	0.793	0.0933	0.406	0.82	0.037 J	0.0447 J	0.0676 J	0.382	0.08 U	0.08 U	0.945	0.0218 J	0.0234 J	0.2 U	0.08 U	0.185	0.957
HF-B1	SB (8-10)	6-Jan-02	0.849	0.982	2.01	0.815	1.35	0.148	0.659	1.5	0.344	0.093 U	0.226	0.571	0.093 U	0.113	1.46	0.297	1.74	0.23 U	0.587	0.695	1.59
HF-B2 DUP	SS (0.0-0.5)	14-Oct-01	0.14 J	0.117 J	0.142 J	0.37 U	0.136 J	0.37 U	0.37 U	0.35	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.271 J	0.37 U	0.106 J	0.92 U	0.37 U	0.242 J	0.226 J
HF-B2	SS (0.0-0.5)	14-Oct-01	0.153	0.151	0.224	0.0927	0.159	0.0192 J	0.079	0.22	0.05 J	0.074 U	0.0649 J	0.0661 J	0.074 U	0.0418 J	0.309	0.046 J	0.0787	0.18 U	0.0236 J	0.239	0.28
HF-B2	SB (4-6)	14-Oct-01	0.554	0.476	0.626	0.272	0.542	0.0465 J	0.208	0.66	0.0636 J	0.0402 J	0.217	0.166	0.074 U	0.0496 J	1.22	0.0988	0.0385 J	0.18 U	0.0322 J	0.772	1.04
HF-B3	SS (0.0-0.5)	7-Jan-02	2.36	1.95	3.66	1.54	2.86	0.267	1.26	3.0	0.305	0.0854	0.721	1.06	22.3	0.21	8.51	0.32	0.0372 J	0.19 U	0.863	5.58	5.75
HF-B3	SB (8-10)	7-Jan-02	0.0751 J	0.0508 J	0.173	0.0693 J	0.184	0.076 U	0.031 J	0.12	0.0354 J	0.076 U	0.027 J	0.0284 J	0.042 J	0.0315 J	0.528	0.0403 J	0.076 U	0.19 U	0.0364 J	0.425	0.439
IB-1	SS (0-2)	22-Apr-02	0.104	0.0314 J	0.059 J	0.0335 J	0.105	0.078 U	0.078 U	0.091	0.292	0.078 U	0.206	0.078 U	0.0521 J	0.197	0.774	0.393	0.0376 J	0.19 U	0.1	1.33	0.541
IB-1	SB (4-6)	22-Apr-02	0.18	0.0748 J	0.109	0.0443 J	0.196	0.078 U	0.078 U	0.15	0.134	0.078 U	0.08	0.078 U	0.078 U	0.0569 J	0.61	0.0783	0.078 U	0.19 U	0.3	0.187	0.521
IB-2	SB (4-6)	26-Jun-02	0.51	0.147	0.241	0.104	0.479	0.078 U	0.043 J	0.27	5.36	0.078 U	0.781	0.0474 J	0.078 U	3.08	3.94	3.83	0.275	0.19 U	0.633	6.75	2.63
IB-3	SB (4-6)	27-Jun-02	0.101	0.0577 J	0.085 U	0.085 U	0.1	0.085 U	0.085 U	0.12	1.36	0.085 U	0.202	0.085 U	4.7	0.755	0.582	0.88	0.682	0.21 U	3.65	1.69	0.429
IB-3	SB (8-10)	27-Jun-02	0.333	0.142	0.241	0.0857 J	0.343	0.089 U	0.089 U	0.25	2.58	0.089 U	1.2	0.089 U	19.2	1.61	1.92	2.31	0.974	0.22 U	20.7	5.3	1.25
LB-101	SS (0-1)	23-Mar-02	0.017 U	0.012 U	0.016 U	0.027 U	0.013 U	0.019 U	0.023 U	0.018	0.018 U	0.014 U	0.014 U	0.02 U	0.05 U	0.017 U	0.013 U	0.014 U	0.023 U	0.035 U	0.02 U	0.016 U	0.012 U
LB-101	SS (1-3)	23-Mar-02	0.0507 J	0.047 J	0.0614 J	0.0508 J	0.0746	0.037	0.0889	0.10	0.017 U	0.014 U	0.108	0.134	0.048 U	0.016 U	0.155	0.0382 J	0.022 U	0.033 U	0.019 U	0.182	0.131
LB-102	SS (0-3)	24-Apr-02	0.018 U	0.013 U	0.017 U	0.028 U	0.014 U	0.019 U	0.023 U	0.019	0.019 U	0.015 U	0.014 U	0.02 U	0.052 U	0.017 U	0.013 U	0.015 U	0.024 U	0.036 U	0.021 U	0.016 U	0.013 U
LB-102	SS (1-3)	24-Apr-02	0.018 U	0.013 U	0.017 U	0.028 U	0.014 U	0.019 U	0.023 U	0.019	0.019 U	0.015 U	0.014 U	0.02 U	0.051 U	0.017 U	0.013 U	0.015 U	0.024 U	0.036 U	0.021 U	0.016 U	0.013 U
LB-103	SS (0-1)	24-Mar-02	0.0204 J	0.0215 J	0.0466 J	0.027 U	0.0266 J	0.019 U	0.0342 J	0.041	0.018 U	0.014 U	0.016 J	0.0433 J	0.05 U	0.017 U	0.0359 J	0.014 U	0.023 U	0.035 U	0.02 U	0.0292 J	0.0327 J
LB-103	SB (5-7)	24-Mar-02	0.0271 J	0.0244 J	0.0277 J	0.0429 J	0.0463 J	0.021 U	0.026 U	0.042	0.021 U	0.017 U	0.016 U	0.022 U	0.057 U	0.019 U	0.0324 J	0.016 U	0.043 J	0.04 U	0.038 J	0.0467 J	0.0345 J
LHP-101	SS (0-1)	25-Mar-02	0.089 U	0.064 UJ	0.084 UJ	0.14 UJ	0.068 UJ	0.096 UJ	0.12 UJ	0.095	0.094 U	0.074 U	0.071 U	0.1 UJ	0.26 U	0.085 U	0.065 U	0.074 U	0.12 U	0.18 U	0.1 U	0.081 U	0.063 UJ
LHP-101	SB (5-8)	25-Mar-02	0.064 U	0.046 U	0.06 U	0.099 U	0.049 U	0.069 U	0.083 U	0.068	0.067 U	0.053 U	0.0566 J	0.072 U	0.18 U	0.061 U	0.047 U	0.053 U	0.114 J	0.13 U	0.145 J	0.102 J	0.0721 J
LHP-102	SS (0-1)	26-Mar-02	0.0296 J	0.013 U	0.0448 J	0.028 U	0.0481 J	0.02 U	0.024 U	0.025	0.019 U	0.015 U	0.0162 J	0.0283 J	0.052 U	0.018 J	0.0348 J	0.015 U	0.0513 J	0.037 U	0.0317 J	0.0583 J	0.0343 J
LHP-102	SB (7-9)	26-Mar-02	0.403	0.512	0.258	0.21	0.462	0.0826 J	0.22	0.69	0.0382 J	0.193	0.192	0.394	0.0325 U	0.0418 J	0.47	0.0518 J	0.162	0.0225 U	0.162	0.235	1.07
LHP-103	SS (0-1)	27-Mar-02	0.367 J	0.381	0.375	0.251 J	0.378	0.127 J	0.287 J	0.61	0.096 U	0.076 U	0.0833 J	0.367 J	0.26 U	0.087 U	0.574	0.075 U	0.12 U	0.18 U	0.11 U	0.252 J	0.486
LHP-103	SS (1-3)	27-Mar-02	0.0415 J	0.0346 J	0.0401 J	0.0333 J	0.0589 J	0.021 U	0.0273 J	0.056	0.021 U	0.016 U	0.016 U	0.03 J	0.057 U	0.0321 J	0.0445 J	0.016 U	0.102	0.04 U	0.0629 J	0.0934	0.0404 J
LHP-104	SS (0-1)	28-Mar-02	0.0199 J	0.0134 J	0.0173 J	0.026 U	0.0206 J	0.018 U	0.022 U	0.027	0.018 U	0.014 U	0.013 U	0.019 U	0.049 U	0.016 U	0.0275 J	0.014 U	0.023 U	0.034 U	0.02 U	0.0198 J	0.0204 J
LHP-104	SB (7-9)	28-Mar-02	0.0305 J	0.0272 J	0.0237 J	0.029 U	0.0402 J	0.02 U	0.025 U	0.044	0.02 U	0.016 U	0.015 U	0.0268 J	0.055 U	0.0197 J	0.033 J	0.016 U	0.058 J	0.038 U	0.0527 J	0.0629 J	0.0411 J
LHP-105 DUP	SS (0-1)	17-Mar-02	0.106 J	0.0929 J	0.137 J	0.077 U	0.149 J	0.053 U	0.0899 J	0.15	0.052 U	0.041 U	0.039 U	0.122 J	0.14 U	0.047 U	0.157 J	0.041 U	0.066 U	0.1 U	0.057 U	0.109 J	0.135 J
LHP-105	SS (0-1)	17-Mar-02	0.137 J	0.121 J	0.144 J	0.13 U	0.167 J	0.091 U	0.123 J	0.21	0.089 U	0.07 U	0.067 U	0.161 J	0.24 U	0.081 U	0.203 J	0.07 U	0.11 U	0.17 U	0.098 U	0.153 J	0.177 J
LHP-105	SS (1-3)	17-Mar-02	0.0714	0.154	0.438	0.136	0.167	0.125	0.257	0.36	0.018 U	0.014 U	0.014 U	0.275	0.049 U	0.016 U	0.0597 J	0.014 U	0.023 U	0.034 U	0.02 U	0.0242 J	0.0533 J
LHP-106	SS (0-1)	29-Mar-02	0.157 J	0.148 J	0.213 J	0.141 J	0.204 J	0.09 UJ	0.136 J	0.25	0.088 U	0.07 U	0.066 U	0.243 J	0.24 U	0.08 U	0.192 J	0.069 U	0.11 U	0.17 U	0.097 U	0.0926 J	0.373 J
LHP-106	SS (1-3)	29-Mar-02	0.1 U	0.072 U	0.095 U	0.16 U	0.077 U	0.11 U	0.13 U	0.11	0.11 U	0.084 U	0.081 U	0.11 U	0.29 U	0.097 U	0.074 U	0.083 U	0.14 U	0.2 U	0.12 U	0.091 U	0.072 U
LHP-107	SS (0-1)	30-Mar-02	0.399	0.602	0.882	0.417	0.59	0.207	0.523	1.0	0.0252 J	0.015 U	0.0309 J	0.549	0.05 U	0.017 U	0.408	0.014 U	0.023 U	0.035 U	0.031 J	0.152	0.376
LHP-107	SB (5-7)	30-Mar-02	0.0235 J	0.0272 J	0.0196 J	0.029 U	0.0292 J	0.02 U	0.024 U	0.043	0.019 U	0.015 U	0.015 U	0.0276 J	0.053 U	0.018 U	0.0209 J	0.015 U	0.025 U	0.037 U	0.021 U	0.0328 J	0.0279 J
LHP-108	SS (0-1)	31-Mar-02	0.933 J	0.891 J	0.902 J	0.818 J	1.06 J	0.18 J	0.506	1.3	0.019 U	0.0607 J	0.103	0.577 J	0.052 U	0.017 U	0.824	0.015 U	0.024 U	0.037 U	0.021 U	0.393	3.27 J
LHP-108	SB (3-7)	31-Mar-02	0.019 U	0.014 U	0.018 U	0.03 U	0.015 U	0.021 U	0.026 U	0.021	0.021 U	0.016 U	0.016 U	0.022 U	0.057 U	0.019 U	0.0171 J	0.016 U	0.026 U	0.04 U	0.023 U	0.018 U	0.0161 J
LHP-109	SS (0-1)	1-Apr-02	0.102 J	0.123 J	0.127 J	0.106 J	0.128 J	--	0.0771	0.15	0.019 U	0.015 U	0.0159 J	0.121 J	0.053 U	0.018 U	0.102	0.015 U	0.036 J	0.037 U	0.0299 J	0.0647 J	0.277 J
LHP-109	SB (7-9)	1-Apr-02	0.0566 J	0.03 J	0.0248 J	0.034 U	0.0642 J	0.024 U	0.029 U	0.052	0.163	0.0337 J	0.0825 J	0.025 U	0.064 U	0.0701 J	0.16	0.0745 J	0.0325 J	0.045 U	0.0675 J	0.176	0.172
LHP-110	SS (0-1)	2-Apr-02	0.899	0.976 J	0.17 UJ	0.7 J	1.05 J	0.2 UJ	0.447 J	1.2	0.19 U	0.15 U	0.291 J	0.498 J	0.53 U	0.18 U	1.85	0.15 U	0.25 U	0.37 U	0.21 U	1.03	2.44 J
LHP-111	SS (0-1)	3-Apr-02	0.0476 J	0.0369 J	0.0885	0.0784	0.116	0.019 U	0.024 U	0.062	0.019 U	0.015 U	0.0312 J	0.0216 J	0.052 U	0.017 U	0.205	0.015 U	0.024 U	0.036 U	0.021 U	0.0455 J	0.167
LHP-112	SS (0-1)	4-Apr-02	0.618 J	0.523 J	0.017 UJ	0.634 J	0.603 J	0.0807 J	0.218 J	0.70	0.0997	0.0186 J	0.373	0.217 J	0.053 U	0.153	1.21	0.186	0.0696 J	0.037 U	0.18	1.16	1.71 J
LHP-113	SS (0-1)	5-Apr-02	0.0358 J	0.0243 J	0.0725	0.0633 J	0.0735	0.018 U	0.022 U	0.046	0.018 U	0.014 U	0.019 J	0.0217 J	0.049 U	0.016 U	0.142	0.014 U	0.023 U	0.035 U	0.0267 J	0.0543 J	0.149
LHP-114	SS (0-1)	6-Apr-02	0.0421 J	0.0381 J	0.0877	0.102	0.0866	0.019 U	0.0249 J	0.064	0.019 U	0.015 U	0.0265 J	0.024 J	0.051 U	0.017 U	0.0953	0.015 U	0.024 U	0.036 U	0.02 U	0.0184 J	0.093
LHP-115	SS (0-1)	7-Apr-02	0.017 U	0.012 U	0.016 U	0.026 U	0.013 U	0.018 U	0.022 U	0.018	0.018 U	0.014 U	0.013 U	0.019 U	0.049 U	0.016 U	0.012 U	0.014 U	0.023 U	0.034 U	0.02 U	0.015 U	0.012 U
LHP-116	SS (0-1)	8-Apr-02	0.0391 J	0.0307 J	0.0817	0.0514 J	0.08	0.02 U	0.024 U	0.055	0.019 U	0.015 U	0.014 U	0.0214 J	0.052 U	0.017 U	0.0609 J	0.015 U	0.024 U	0.037 U	0.021 U	0.0277 J	0.0597 J
LHP-117	SS (0-1)	9-Apr-02	0.0755 J	0.0502 J	0.117	0.0919	0.131	0.02 U	0.0248 J	0.083	0.02 U	0.016 U	0.0165 J	0.021 U	0.054 U	0.018 U	0.105	0.015 U	0.025 U	0.038 U	0.022 U	0.0367 J	0.0948
LHP-118	SS (0-1)	10-Apr-02	0.095 U	0.068 U	0.09 U	0.15 U	0.073 U	0.1 U	0.12 U	0.10	0.1 U	0.08 U	0.076 U	0.11 U	0.28 U	0.091 U	0.109 J	0.079 U	0.13 U	0.19 U	0.11 U	0.086 U	0.127 J
LHP-119	SS (0-1)	11-Apr-02	0.0255 J	0.0193 J	0.0281 J	0.0326 J	0.048 J	0.02 U	0.024 U	0.036	0.02 U	0.016 U	0.015 U	0.021 U	0.054 U	0.018 U	0.0449 J	0.015 U	0.0406 J	0.038 U	0.0286 J	0.0529 J	0.0498 J
LHP-120	SS (0-1)	12-Apr-02	0.079 J	0.0749 J	0.151	0.115	0.152	0.022 U	0.0338 J	0.11	0.022 U	0.017 U	0.0224 J	0.0362 J	0.06 U	0.0469 J	0.102	0.017 U	0.158	0.042 U	0.0986	0.14	0.133
LHP-121	SS (0-1)	13-Apr-02	0.018 U	0.013 U	0.017 U	0.028 U	0.0298 J	0.02 U	0.024 U	0.020	0.019 U	0.015 U	0.015 U	0.021 U	0.053 U	0.018 U	0.0191 J	0.015 U	0.0674 J	0.037 U	0.0476 J	0.0643 J	0.022 J
LHP-122	SS (0-1)	14-Apr-02	0.0985 J	0.1 J	0.0809 J	0.138 J	0.128 J	--	--	0.12	0.018 U	0.014 U	0.014 U	0.062 J	0.05 U	0.017 U	0.111	0.014 U	0.023 U	0.035 U	0.02 U	0.0528 J	0.294 J
LHP-123	SS (0-1)	15-Apr-02	0.189 J	0.187 J	0.017 UJ	0.21 J	0.227 J	0.0466 J	0.0854 J	0.26	0.019 U	0.015 U	0.0287 J	0.083 J	0.053 U	0.018 U	0.324	0.015 U	0.0293 J	0.037 U	0.021 U	0.0968	0.549 J
LHP-124	SS (0.5-2)	19-Sep-01	0.546	0.504	0.52	0.388	0.529	0.0884	0.25	0.73	0.0351 J	0.0429 J	0.126	0.249	0.054 U	0.0188 J	0.988	0.0351 J	0.025 U	0.038 U	0.022 U	0.449	1.15
LHP-124	SB (2-4)	19-Sep-01	0.172	0.238	0.17	0.109	0.193	0.02 U	0.109	0.29	0.02 U	0.0444 J	0.0744 J	0.191	0.055 U	0.018 U	0.161	0.016 U	0.025 U	0.038 U	0.022 U	0.131	0.529
LHP-125	SS (0.5-2)	20-Sep-01	0.68	0.643	0.649	0.48	0.649	0.122	0.316	0.93	0.0471 J	0.0754	0.19	0.319	0.053 U	0.031 J	1.14	0.059 J	0.024 U	0.037 U	0.021 U	0.589	1.5
LHP-125	SB (4-6)	20-Sep-01	0.018 U	0.013 U	0.017 U	0.028 U	0.0202 J	0.019 U	0.023 U	0.019	0.019 U	0.015 U	0.014 U	0.02 U	0.052 U	0.017 U	0.0248 J	0.015 U	0.024 U	0.036 U	0.021 U	0.0172 J	0.0264 J
LHP-126	SB (2-4)	7-Jul-02	0.0339 J	0.013 UJ	0.0523 J	0.0369 J	0.0594 J	0.019 UJ	0.023 UJ	0.026	0.019 U	0.015 U	0.0159 J	0.0239 J	0.052 U	0.0276 J	0.0656 J	0.015 U	0.0802	0.036 U	0.0589 J	0.0958	0.0985 J
LHP-126	SB (8-10)	7-Jul-02	0.0386 J	0.0347 J	0.0377 J	0.031 UJ	0.0495 J	0.021 UJ	0.026 UJ	0.054	0.021 U	0.017 U	0.016 U	0.024 J	0.057 U	0.019 U	0.0582 J	0.016 U	0.0553 J	0.04 U	0.0583 J	0.0812 J	0.111 J
LHP-127	SS (0-1)	16-Apr-02	0.167 J	0.134 J	0.158 J	0.17 J	0.256 J	--	--	0.17	0.043 J	0.0211 J	0.111	--	0.05 U	0.0564 J	0.32	0.039 J	0.0622 J	0.035 U	0.0933	0.533	0.684 J
LHP-127	SB (3-5)	16-Apr-02	0.017 U	0.0213 J	0.0234 J	0.026 U	0.0253 J	0.018 U	0.022 U	0.035	0.018 U	0.014 U	0.014 U	0.019 U	0.049 U	0.016 U	0.0224 J	0.014 U	0.0261 J	0.034 U	0.0209 J	0.0309 J	0.0207 J
LHP-128 DUP	SS (0-1)	19-Mar-02	0.199	0.106	0.33	0.222	0.363	0.0274 J	0.0841	0.20	0.018 U	0.014 U	0.013 U	0.0888	0.048 U	0.016 U	0.849	0.014 U	0.022 U	0.034 U	0.109	0.175	1.48
LHP-128	SS (0-1)	19-Mar-02	0.207	0.0951	0.326	0.208	0.358	0.0244 J	0.0709	0.18	0.018 U	0.014 U	0.013 U	0.072	0.048 U	0.016 U	1.02	0.014 U	0.022 U	0.034 U	0.0953	0.19	1.59
LP-1	SS (0.0-0.5)	8-Jan-02	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.087	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.075 U
LP-10	SS (0.0-0.5)	21-Sep-01	0.0922	0.059 J	0.129	0.0427 J	0.103	0.076 U	0.0479 J	0.12	0.076 U	0.076 U	0.0273 J	0.0422 J	0.0423 J	0.076 U	0.144	0.076 U	0.076 U	0.19 U	0.038 J	0.0829	0.0886
LP-10	SS (0.5-2)	21-Sep-01	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.097	0.084 U	0.084 U	0.084 U	0.084 U	0.0443 J	0.084 U	0.084 U	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.084 U
LP-11	SS (0.0-0.5)	10-Jan-02	0.118	0.0737 J	0.156	0.0518 J	0.133	0.084 U	0.084 U	0.15	0.084 U	0.084 U	0.0466 J	0.0589 J	0.084 U	0.084 U	0.188	0.084 U	0.084 U	0.21 U	0.084 U	0.0769 J	0.149
LP-12	SS (0.0-0.5)	11-Jan-02	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.086	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.0234 J	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.0166 J

ATTACHMENT A
Supplemental Data Tables

Table A-1.6a
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds (Polycyclic Aromatic Hydrocarbons)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Carcinogenic Polycyclic Aromatic Hydrocarbons (mg/kg)								Polycyclic Aromatic Hydrocarbons (mg/kg)												
			Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,H) Anthracene	Indeno (1,2,3-C,d) Pyrene	Benzo(a) pyrene TEQ	Acenaph thene	Acenaph thylene	Anthracene	Benzo (g,H,i) Perylene	2-Chloro naphthalene	Dibenzo furan	Fluoran thene	Fluorene	2-Methyl naphthalene	2-Methyl phenol	Naphthalene	Phenanthrene	Pyrene
		TEF:	0.1	1	0.1	0.01	0.001	1	0.1														
LP-12	SB (4-6)	11-Jan-02	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.084	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.18 U	0.073 U	0.073 U	0.073 U
LP-13	SS (0.0-0.5)	12-Jan-02	0.0845	0.109	0.22	0.0768 J	0.114	0.084 U	0.122	0.19	0.084 U	0.0572 J	0.0697 J	0.148	0.033 J	0.084 U	0.186	0.084 U	0.084 U	0.21 U	0.0798 J	0.0732 J	0.219
LP-14	SS (0.0-0.5)	22-Sep-01	0.401	0.368 J	0.312 J	0.0929 J	1.08	0.37 U	0.0992 J	0.64	0.37 U	0.37 U	0.0967 J	0.162 J	0.37 U	0.37 U	0.332 J	0.37 U	0.37 U	0.92 U	0.37 U	0.555	1.3
LP-14	SS (0.5-2)	22-Sep-01	0.0879	0.0791	0.156	0.0528 J	0.144	0.071 U	0.0474 J	0.14	0.071 U	0.071 U	0.0347 J	0.0463 J	0.0544 J	0.071 U	0.128	0.071 U	0.071 U	0.18 U	0.0324 J	0.0912	0.22
LP-15	SS (0.0-0.5)	14-Jan-02	0.0642 J	0.0668 J	0.144	0.0538 J	0.0988	0.076 U	0.0596 J	0.13	0.076 U	0.0199 J	0.0475 J	0.0562 J	0.0243 J	0.076 U	0.141	0.076 U	0.076 U	0.19 U	0.076 U	0.0847	0.121
LP-16	SS (0.0-0.5)	23-Sep-01	0.102	0.065 J	0.167	0.0607 J	0.118	0.077 U	0.0479 J	0.14	0.077 U	0.0238 J	0.0568 J	0.0405 J	0.0423 J	0.077 U	0.192	0.077 U	0.077 U	0.19 U	0.077 U	0.0891	0.139
LP-16	SS (0.5-2)	23-Sep-01	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.42	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.91 U	0.36 U	0.36 U	0.36 U
LP-2	SS (0.0-0.5)	24-Sep-01	0.075 UJ	0.075 UJ	0.075 UJ	0.075 UJ	0.075 U	0.075 UJ	0.075 UJ	0.087	0.075 U	0.075 U	0.0323 J	0.075 UJ	5.04	0.075 U	0.0609 J	0.075 U	0.075 U	0.19 U	0.349	0.0605 J	0.0674 J
LP-2	SS (0.5-2)	24-Sep-01	0.32	0.0806	0.076 U	0.076 U	0.179	0.076 U	0.076 U	0.16	0.076 U	0.076 U	0.0678 J	0.076 U	1.77	0.076 U	0.401	0.076 U	0.076 U	0.19 U	0.0891	0.287	0.423
LP-3	SS (0.0-0.5)	17-Jan-02	0.29	0.186	0.25	0.102	0.28	0.0313 J	0.114	0.28	0.0336 J	0.071 U	0.123	0.102	0.071 U	0.071 U	0.823	0.0336 J	0.071 U	0.18 U	0.071 U	0.417	0.542
LP-4	SS (0.0-0.5)	25-Sep-01	0.0672 J	0.0725 J	0.124	0.0454 J	0.0856	0.08 U	0.0537 J	0.14	0.08 U	0.08 U	0.0248 J	0.0705 J	0.0467 J	0.08 U	0.116	0.08 U	0.08 U	0.2 U	0.08 U	0.0578 J	0.105
LP-4	SS (0.5-2)	25-Sep-01	0.284 UJ	0.157 UJ	0.394 UJ	0.149 UJ	0.344	0.074 UJ	0.111 UJ	0.16	0.0298 J	0.074 U	0.104	0.0845 UJ	0.17	0.101	0.922	0.0314 J	0.0482 J	0.18 U	0.0658 J	0.857	0.685
LP-5	SS (0.0-0.5)	19-Jan-02	0.086	0.0764	0.15	0.051 J	0.105	0.075 U	0.0666 J	0.14	0.075 U	0.075 U	0.0386 J	0.0619 J	0.198	0.075 U	0.143	0.075 U	0.075 U	0.19 U	0.0375 J	0.0891	0.124
LP-6	SS (0.0-0.5)	20-Jan-02	0.0523 J	0.0317 J	0.0927	0.0301 J	0.0724 J	0.073 U	0.073 U	0.087	0.073 U	0.073 U	0.0443 J	0.073 U	0.101	0.073 U	0.119	0.073 U	0.073 U	0.18 U	0.073 U	0.0626 J	0.08
LP-6	SB (4-6)	20-Jan-02	0.074 UJ	0.074 UJ	0.074 UJ	0.074 UJ	0.074 U	0.074 UJ	0.074 UJ	0.086	0.074 U	0.074 U	0.074 U	0.074 UJ	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U
LP-7	SS (0.0-0.5)	21-Jan-02	0.402	0.424	0.695	0.278	0.426	0.0395 J	0.2	0.60	0.0232 J	0.0202 J	0.12	0.156	0.493	0.0291 J	0.883	0.0205 J	0.0308 J	0.2 U	0.0722 J	0.408	0.859
LP-8 DUP	SS (0.0-0.5)	16-Oct-01	0.279	0.21	0.286	0.131	0.265	0.0197 J	0.0728 J	0.30	0.291	0.077 U	0.292	0.0568 J	0.077 U	0.272	0.745	0.278	0.665	0.19 U	0.156	0.924	0.527
LP-8	SS (0.0-0.5)	16-Oct-01	0.0888	0.0782 J	0.113	0.0489 J	0.0948	0.081 U	0.0354 J	0.14	0.0424 J	0.081 U	0.0493 J	0.0309 J	0.081 U	0.036 J	0.215	0.0353 J	0.0863	0.2 U	0.0292 J	0.2	0.158
LP-9	SS (0.0-0.5)	22-Jan-02	0.135 J	0.145 J	0.19 J	0.37 U	0.198 J	0.37 U	0.37 U	0.38	0.37 U	0.37 U	0.37 U	0.093 J	0.37 U	0.37 U	0.264 J	0.37 U	0.37 U	0.92 U	0.37 U	0.221 J	0.28 J
MW-26S	SB (8-10)	12-Jul-02	0.162 J	0.0761 J	0.104 J	0.0777 J	0.191 J	0.023 UJ	0.028 UJ	0.12	0.169	0.018 U	0.017 UJ	0.0265 J	0.845	0.177	1.07 J	0.236	0.151	0.043 U	19.1	0.019 UJ	0.922 J
MW-6D	SS (0-2)	23-Apr-02	0.018 U	0.013 U	0.017 U	0.028 U	0.014 U	0.02 U	0.024 U	0.020	0.019 U	0.015 U	0.015 U	0.021 U	0.053 U	0.018 U	0.0172 J	0.015 U	0.025 U	0.037 U	0.021 U	0.017 U	0.0183 J
PCA-1	SS (0.0-0.5)	23-Jan-02	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.42	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.45	0.9 U	0.36 U	0.36 U	0.36 U
PCA-1	SB (4-6)	23-Jan-02	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.092	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U
PCA-2	SS (0.0-0.5)	24-Jan-02	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.084	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.0441 J	0.073 U	0.073 U	0.18 U	0.073 U	0.073 U	0.0643 J
PCA-3	SS (0.0-0.5)	25-Jan-02	0.184	0.174	0.437	0.14 J	0.341	0.16 U	0.137 J	0.33	0.16 U	0.0372 J	0.0694 J	0.111 J	0.16 U	0.0595 J	0.292	0.16 U	0.123 J	0.39 U	0.0836 J	0.192	0.258
PCA-3	SB (4-6)	25-Jan-02	0.114	0.112	0.127	0.0533 J	0.162	0.085 U	0.0855	0.19	0.085 U	0.085 U	0.0306 J	0.131	0.085 U	0.0714 J	0.15	0.085 U	0.223	0.21 U	0.143	0.237	0.195
PCA-4 DUP	SS (0.0-0.5)	18-Oct-01	0.38 U	0.38 U	0.166 J	0.0558 J	0.38 U	0.38 U	0.38 U	0.44	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.102 J	0.38 U	0.38 U	0.96 U	0.38 U	0.38 U	0.0789 J
PCA-4	SS (0.0-0.5)	18-Oct-01	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.44	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.95 U	0.38 U	0.38 U	0.38 U
PCA-4	SB (4-6)	18-Oct-01	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.096	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.056 J	0.083 U	0.125	0.21 U	0.083 U	0.083 U	0.139
PCA-5	SS (0.0-0.5)	26-Sep-01	0.0386 J	0.0238 J	0.0363 J	0.085 U	0.0419 J	0.085 U	0.085 U	0.079	0.0467 J	0.085 U	0.0252 J	0.085 U	0.085 U	0.0373 J	0.128	0.0394 J	0.0543 J	0.21 U	0.165	0.169	0.0905
PCA-5	SS (0.5-2)	26-Sep-01	0.0514 J	0.0325 J	0.0411 J	0.0193 J	0.0589 J	0.078 U	0.0257 J	0.084	0.078 U	0.078 U	0.078 U	0.0219 J	0.078 U	0.078 U	0.106	0.078 U	0.078 U	0.19 U	0.078 U	0.11	0.108
PCA-6	SS (0.0-0.5)	27-Jan-02	0.324 J	0.222 J	0.354 J	0.17 J	0.312	0.0273 J	0.105 J	0.33	0.0312 J	0.071 U	0.118	0.0849 J	0.071 U	0.0304 J	0.614	0.0349 J	0.0215 J	0.18 U	0.0278 J	0.439	0.5
RR-1	SS (0.0-0.5)	28-Jan-02	4.49	1.27	2.39	0.664	5.07	0.239	0.821	2.3	14.3	0.4	11.5	0.612	0.074 U	3.35	29.5	5.39	0.252	0.18 U	0.0818	19.1	17
RR-10	SS (0.0-0.5)	29-Jan-02	0.17	0.159	0.559	0.196	0.365	0.074 U	0.145	0.29	0.074 U	0.0476 J	0.0788	0.0976	0.074 U	0.0384 J	0.468	0.074 U	0.0686 J	0.18 U	0.0477 J	0.189	0.377
RR-11 DUP	SS (0.0-0.5)	20-Oct-01	0.113	0.0963	0.258	0.0879	0.166	0.077 U	0.0978	0.18	0.077 U	0.03 J	0.108	0.0947	0.077 U	0.077 U	0.245	0.077 U	0.0214 J	0.19 U	0.0204 J	0.111	0.265
RR-11	SS (0.0-0.5)	20-Oct-01	0.0867	0.0788 J	0.208	0.071 J	0.135	0.08 U	0.0774 J	0.16	0.08 U	0.023 J	0.0809	0.0772 J	0.08 U	0.08 U	0.192	0.08 U	0.0198 J	0.2 U	0.08 U	0.0766 J	0.19
RR-12	SS (0.0-0.5)	30-Jan-02	0.0784	0.0792	0.226	0.0745 J	0.134	0.078 U	0.0726 J	0.16	0.078 U	0.0227 J	0.0588 J	0.0728 J	0.078 U	0.0239 J	0.165	0.078 U	0.048 J	0.2 U	0.041 J	0.101	0.16
RR-2	SS (0.0-0.5)	31-Jan-02	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.49	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	1 U	0.42 U	0.0873 J	0.42 U
RR-2	SB (8-10)	31-Jan-02	0.0958 J	0.3	0.147	0.0459 J	0.125	0.099 U	0.0633 J	0.38	0.099 U	0.099 U	0.099 U	0.0984 J	0.099 U	0.099 U	0.111	0.099 U	0.099 U	0.25 U	0.0406 J	0.0841 J	0.115
RR-3	SS (0.0-0.5)	1-Feb-02	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.083	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.0492 J	0.072 U	0.072 U	0.18 U	0.072 U	0.0339 J	0.0344 J
RR-4	SS (0.0-0.5)	2-Feb-02	0.68 J	1.27 J	2.15 J	0.732 J	0.897	0.192 J	1.16 J	1.9	0.21	0.425	0.922	1.21 J	0.08 U	0.123	1.77	0.102	0.0809	0.2 U	0.158	0.531	2.12
RR-4	SB (6-8)	2-Feb-02	0.0648 J	0.065 J	0.116	0.0377 J	0.0948	0.077 U	0.0688 J	0.13	0.077 U	0.077 U	0.0234 J	0.0882	0.077 U	0.077 U	0.135	0.077 U	0.0426 J	0.19 U	0.0367 J	0.0763 J	0.126
RR-5	SS (0.0-0.5)	3-Feb-02	0.178	0.15	0.552	0.189	0.359	0.0311 J	0.168	0.27	0.069 U	0.0919	0.199	0.154	0.069 U	0.0355 J	0.514	0.069 U	0.0785	0.17 U	0.058 J	0.153	0.43
RR-6	SS (0.0-0.5)	4-Feb-02	0.363	0.558	1.33	0.49	0.653	0.106	0.482	0.89	0.072 U	0.0718 J	0.0964	0.416	0.072 U	0.0232 J	0.506	0.072 U	0.0333 J	0.18 U	0.0315 J	0.106	0.479
RR-6	SB (8-10)	4-Feb-02	0.0691 J	0.0814	0.198	0.0799	0.127	0.076 U	0.0922	0.16	0.076 U	0.076 U	0.0388 J	0.0793	0.076 U	0.076 U	0.129	0.076 U	0.076 U	0.19 U	0.114	0.043 J	0.105
RR-7	SS (0.0-0.5)	5-Feb-02	0.0339 J	0.076 UJ	0.076 UJ	0.076 UJ	0.0545 J	0.076 UJ	0.076 UJ	0.087	0.0769	0.076 U	0.0347 J	0.076 UJ	0.076 U	0.0536 J	0.153	0.0284 J	0.0211 J	0.19 U	0.0252 J	0.0483 J	0.241
RR-8	SS (0.0-0.5)	6-Feb-02	0.288	0.215	0.971	0.306	0.611	0.0513 J	0.236	0.42	0.086 U	0.0837 J	0.188	0.167	0.086 U	0.086 U	0.758	0.086 U	0.0485 J	0.22 U	0.0371 J	0.169	0.65
RR-8	SB (6-8)	6-Feb-02	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.16	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.34 U	0.149	0.14 U	0.14 U
RR-9	SS (0.0-0.5)	7-Feb-02	0.0653 J	0.108	0.293	0.103	0.141	0.0226 J	0.127	0.18	0.073 U	0.0391 J	0.0837	0.113	0.073 U	0.073 U	0.129	0.073 U	0.0203 J	0.18 U	0.073 U	0.0523 J	0.114
SILO-B1	SS (0.0-0.5)	8-Feb-02	0.0798	0.077 UJ	0.0862 J	0.0241 J	0.113	0.077 UJ	0.077 UJ	0.098	0.0275 J	0.077 U	0.0382 J	0.077 UJ	0.0869	0.077 U	0.162	0.0223 J	0.077 U	0.19 U	0.0374 J	0.0893	0.47
SILO-B1 DUP	SB (6-8)	8-Feb-02	18.6	3.9	6.62	2.96	13.7	0.31 U	1.21	6.7	166	0.31 U	52.4	0.885	0.31 U	156	136	145	172	0.76 U	158	343	106
SILO-B1	SB (6-8)	8-Feb-02	6.74	1.79	3	1.2	6.33	0.3 U	0.482	3.0	54.2	0.3 U	16.5	0.52	0.3 U	64.9	50.5	47.7	25	0.74 U	37.7	114	39.2
SILO-B2	SS (0.0-0.5)	9-Feb-02	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.42	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.9 U	0.36 U	0.36 U	0.36 U
SILO-B3	SS (0.0-0.5)	10-Feb-02	0.123 J	0.41 UJ	0.41 UJ	0.41 UJ	0.178 J	0.41 UJ	0.41 UJ	0.47	0.41 U	0.41 U	0.41 U	0.41 UJ	0.41 U	0.41 U	0.416	0.41 U	0.41 U	1 U	0.11 J	0.107 J	0.634
SILO-B3	SB (6-8)	10-Feb-02	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.086	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.18 U	0.0518 J	0.074 U	0.074 U
SILO-B4	SS (0.0-0.5)	11-Feb-02	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U	0.42 UJ	0.42 UJ	0.49	0.42 U	0.42 U	0.42 U	0.42 UJ	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	1 U	0.42 U	0.136 J	0.135 J
SPR-1	SS (0.0-0.5)	12-Feb-02	0.236 J	0.38 U	0.38 U	0.38 U	0.316 J	0.38 U	0.38 U	0.44	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.211 J	0.38 U	0.38 U	0.96 U	0.38 U	0.131 J	0.37 J
SPR-1	SB (8-10)	12-Feb-02	0.0342 J	0.0328 J	0.0506 J	0.0198 J	0.0454 J	0.1 U	0.1 U	0.097	0.1 U	0.1 U	0.1 U	0.0219 J	0.1 U	0.1 U	0.0637 J	0.1 U	0.1 U	0.26 U	0.1 U	0.042 J	0.0519 J
SPR-2A	SS (0.0-0.5)	13-Feb-02	0.104	0.0735 J	0.194	0.0841	0.155	0.075 U	0.0689 J	0.15	0.075 U	0.075 U	0.0454 J	0.0601 J	0.075 U	0.0619 J	0.21	0.075 U	0.0499 J	0.19 U	0.075 U	0.136	0.177
SPR-2A	SB (8-10)	13-Feb-02	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.10	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.22 U	0.088 U	0.088 U	0.088 U
SPR-2B	SS (0.0-0.5)	14-Feb-02	0.127	0.113	0.186	0.0778	0.127	0.072 U	0.072 U	0.18	0.072 U	0.072 U	0.0429 J	0.11	0.072 U	0.072 U	0.201	0.072 U	0.072 U	0.18 U	0.072 U	0.178	0.319
SPR-3	SS (0.0-0.5)	15-Feb-02	0.0565 J	0.0509 J	0.107	0.0436 J	0.0734	0.072 U	0.0321 J	0.11	0.072 U	0.072 U	0.072 U	0.0237 J	0.072 U	0.072 U	0.0739	0.072 U	0.072 U	0.18 U	0.0195 J	0.0348 J	0.0652 J
SPR-3	SB (4-6)	15-Feb-02	0.0278 J	0.086 U	0.0308 J	0.086 U	0.0278 J	0.086 U	0.086 U	0.097	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.0357 J	0.086 U	0.086 U	0.21 U	0.0324 J	0.086 U	0.031 J
SPR-4A	SS (0.0-0.5)	16-Feb-02	0.49	0.496	0.783	0.339	0.624	0.081 U	0.305	0.70	0.081 U	0.0814	0.104	0.234	0.081 U	0.081 U	1.49	0.0356 J	0.081 U	0.2 U	0.081 U	0.576	1.38
SPR-4A	SB (8-10)	16-Feb-02	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.13	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.0319 J	0.11 U	0.11 U	0.28 U	0.11 U	0.11 U	0.0587 J
SPR-4B	SS (0.0-0.5)	17-Feb-02	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.092	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.0308 J	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.0254 J
SPR-4B	SB (4-6)	17-Feb-02	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.092	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.0201 J	0.08 U	0.08 U	0.2 U	0.026 J	0.08 U	0.08 U
SPR-4C	SS (0.0-0.5)	18-Feb-02	0.118 J	0.37 U	0.15 J	0.37 U	0.156 J	0.37 U	0.37 U	0.42	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.339 J	0.37 U	0.37 U	0.92 U	0.0932 J	0.267 J	0.38
SPR-4C	SB (4-6)	18-Feb-02	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.10	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.0623 J	0.086 U	0.0253 J	0.22 U	0.0487 J	0.0439 J	0.046 J
SPR-5	SS (0.0-0.5)	19-Feb-02	76.3	72.3	91.3	38.9	69.3	8.76	32.1	101	5.94	2.1 U	21.1	26.4	2.1 U	2.49	116	5.8	2.1 U	5.2 U	2.1 U	53.2	122
SPR-5	SB (2-4)	19-Feb-02	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.10	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.22 U	0.086 U	0.086 U	0.086 U
SPR-6	SS (0.0-0.5)	27-Sep-01	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.079	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.17 U	0.068 U	0.068 U	0.068 U
SPR-6	SS (0.5-2)	27-Sep-01	0.772	0.674	0.846	0.338	0.769	0.068 J	0.241	0.93	0.0722 J	0.024 J	0.213	0.191	0.075 U	0.0393 J	1.34	0.0702 J	0.075 U	0.19 U	0.0488 J	0.994	1.22
SR-1	SS (0.0-0.5)	21-Feb-02	0.1	0.0957	0.321	0.0909	0.131	0.071 U	0.107	0.19	0.071 U	0.038 J	0.0252 J	0.139	0.071 U	0.071 U	0.167	0.071 U	0.071 U	0.18 U	0.071 U	0.1	0.191

ATTACHMENT A
Supplemental Data Tables

Table A-1.6a
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds (Polycyclic Aromatic Hydrocarbons)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Carcinogenic Polycyclic Aromatic Hydrocarbons (mg/kg)								Polycyclic Aromatic Hydrocarbons (mg/kg)												
			Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,H) Anthracene	Indeno (1,2,3-C,d) Pyrene	Benzo(a) pyrene TEQ	Acenaph thene	Acenaph thylene	Anthracene	Benzo (g,H,i) Perylene	2-Chloro naphthalene	Dibenzo furan	Fluoran thene	Fluorene	2-Methyl naphthalene	2-Methyl phenol	Naphthalene	Phenanthrene	Pyrene
		TEF:	0.1	1	0.1	0.01	0.001	1	0.1														
SR-2	SS (0.0-0.5)	22-Feb-02	0.156	0.0625 J	0.223	0.0849	0.217	0.068 U	0.068 U	0.14	0.068 U	0.068 U	0.0377 J	0.068 U	0.068 U	0.068 U	0.258	0.068 U	0.068 U	0.17 U	0.068 U	0.228	0.334
ST-1	SS (0.0-0.5)	23-Feb-02	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.46	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.0946 J	0.4 U	0.4 U	1 U	0.4 U	0.4 U	0.0942 J
ST-2	SS (0.0-0.5)	24-Feb-02	0.869	0.871	1.18	0.4	0.859	0.4 U	0.582	1.3	0.4 U	0.4 U	0.283 J	0.529	0.4 U	0.4 U	2.06	0.111 J	0.4 U	1 U	0.247 J	1.55	2.12
ST-3	SS (0.0-0.5)	25-Feb-02	0.0203 J	0.079 U	0.0228 J	0.079 U	0.0247 J	0.079 U	0.079 U	0.088	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.0376 J	0.079 U	0.079 U	0.2 U	0.079 U	0.079 U	0.0353 J
ST-3	SB (4-6)	25-Feb-02	2.2	1.76	1.73	0.74	2.72	0.164	0.652	2.4	0.174	0.0661 J	0.633	0.602	0.1 U	0.1 U	3.96	0.163	0.1 U	0.26 U	0.1 U	2.02	6.02
TES-1	SS (0-1)	17-Apr-02	0.144 J	0.186 J	0.516	0.186 J	0.212 J	0.753	1.09	1.1	0.098 U	0.078 U	0.0909 J	1.06	0.27 U	0.089 U	0.161 J	0.077 U	0.13 U	0.19 U	0.11 U	0.135 J	0.115 J
TES-2	SS (0-1)	18-Apr-02	0.2 U	0.14 UJ	0.19 UJ	0.31 UJ	0.15 UJ	0.21 UJ	0.26 UJ	0.21	0.21 U	0.17 U	0.16 U	0.22 UJ	0.57 U	0.19 U	0.15 U	0.16 U	0.27 U	0.4 U	0.23 U	0.18 U	0.14 UJ
TES-3	SS (0-1)	19-Apr-02	0.173 J	0.071 U	0.093 U	0.15 U	0.0849 J	0.11 U	0.13 U	0.12	0.1 U	0.083 U	0.079 U	0.11 U	0.29 U	0.095 U	0.14 J	0.082 U	0.13 U	0.2 U	0.12 U	0.09 U	0.113 J
TES-4	SS (0-1)	20-Apr-02	0.0789	0.0609 J	0.104 J	0.0649 J	0.149	0.0402 J	0.193 J	0.14	0.019 U	0.0811	0.154	0.285 J	0.052 U	0.0671 J	0.17	0.015 U	0.17	0.036 U	0.119	0.155	0.116
TLN-1	SS (0.0-0.5)	28-Sep-01	0.0642 J	0.067 J	0.142	0.0588 J	0.105	0.083 U	0.0769 J	0.14	0.083 U	0.0241 J	0.0481 J	0.0682 J	0.083 U	0.083 U	0.132	0.083 U	0.058 J	0.21 U	0.0497 J	0.0737 J	0.12
TLN-1	SS (0.5-2)	28-Sep-01	0.0877	0.0769 J	0.168	0.0628 J	0.198	0.084 U	0.0633 J	0.15	0.084 U	0.084 U	0.0586 J	0.0542 J	0.084 U	0.084 U	0.318	0.0509 J	0.266	0.21 U	0.169	0.211	0.28
TLN-2	SS (0.0-0.5)	27-Feb-02	0.074 U	0.074 U	0.0378 J	0.0149 J	0.074 U	0.074 U	0.074 U	0.085	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.0333 J	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.0372 J
TLN-3	SS (0.0-0.5)	28-Feb-02	14.5	10.5	16.5	5.21	13.8	0.34 U	1.83	14	11.9	0.34 U	14.9	1.33	0.34 U	14.2	36.2	6.58	23.6	0.86 U	7.34	58.2	29.5
TLN-3	SB (2-4)	28-Feb-02	0.101	0.0366 J	0.0919	0.0211 J	0.157	0.078 U	0.078 U	0.10	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.136	0.151	0.078 U	0.206	0.19 U	0.25	0.476	0.195
TLN-4 DUP	SS (0.0-0.5)	22-Oct-01	0.0322 J	0.0411 J	0.0621 J	0.0279 J	0.0393 J	0.073 U	0.073 U	0.091	0.073 U	0.073 U	0.0167 J	0.073 U	0.073 U	0.073 U	0.0737	0.073 U	0.073 U	0.18 U	0.073 U	0.0681 J	0.0466 J
TLN-4	SS (0.0-0.5)	22-Oct-01	0.069 U	0.069 U	0.0392 J	0.0185 J	0.069 U	0.069 U	0.069 U	0.080	0.069 U	0.069 U	0.01 J	0.069 U	0.069 U	0.069 U	0.0405 J	0.069 U	0.069 U	0.17 U	0.069 U	0.03 J	0.0288 J
TLN-5	SS (0.0-0.5)	29-Sep-01	0.37	0.397	0.505	0.238	0.417	0.0598 J	0.196	0.57	0.072 U	0.0656 J	0.0939	0.185	0.072 U	0.072 U	0.644	0.072 U	0.072 U	0.18 U	0.072 U	0.375	0.512
TLN-5	SS (0.5-2)	29-Sep-01	0.258	0.285	0.397	0.172	0.31	0.072 U	0.102	0.40	0.0386 J	0.072 U	0.0788	0.0806	0.072 U	0.072 U	0.566	0.0348 J	0.072 U	0.18 U	0.072 U	0.346	0.423
TLN-5	SB (4-6)	29-Sep-01	0.178	0.181	0.213	0.0844	0.164	0.0336 J	0.109	0.27	0.073 U	0.073 U	0.0388 J	0.0988	0.073 U	0.073 U	0.281	0.073 U	0.073 U	0.18 U	0.073 U	0.112	0.186
TLN-6	SS (0.0-0.5)	2-Mar-02	0.487	0.519	0.674	0.256	0.528	0.054 J	0.203	0.71	0.072 U	0.072 U	0.141	0.189	0.072 U	0.072 U	0.953	0.072 U	0.072 U	0.18 U	0.072 U	0.35	0.7
TLS-1	SS (0.0-0.5)	3-Mar-02	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.45	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.97 U	0.39 U	0.39 U	0.39 U
TLS-10	SS (0.0-0.5)	4-Mar-02	0.078 U	0.078 U	0.0282 J	0.078 U	0.078 U	0.078 U	0.078 U	0.089	0.078 U	0.078 U	0.078 U	0.078 U	0.0248 J	0.078 U	0.0203 J	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.078 U
TLS-10	SB (8-10)	4-Mar-02	0.0473 J	0.097 U	0.0337 J	0.097 U	0.0516 J	0.097 U	0.097 U	0.11	0.097 U	0.097 U	0.12	0.097 U	1	0.097 U	0.119	0.097 U	0.0762 J	0.24 U	7.8	0.0461 J	0.101
TLS-11	SS (0.0-0.5)	5-Mar-02	0.878 J	0.0638 J	0.206 J	0.075 U	0.134	0.075 UJ	0.075 UJ	0.21	0.075 U	0.0282 J	0.061 J	0.0535 J	0.185	0.075 U	0.124	0.075 U	0.075 U	0.19 U	0.16	0.0737 J	0.15
TLS-2	SS (0.0-0.5)	6-Mar-02	0.37 UJ	0.37 UJ	0.37 UJ	0.37 UJ	0.167 J	0.37 UJ	0.37 UJ	0.43	0.37 U	0.37 U	0.37 U	0.37 UJ	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.94 U	0.37 U	0.37 U	0.205 J
TLS-2	SB (6-8)	6-Mar-02	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.14	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.29 U	0.12 U	0.12 U	0.12 U
TLS-3	SS (0.0-0.5)	7-Mar-02	0.0562 J	0.0486 J	0.124	0.0463 J	0.0916	0.074 U	0.0354 J	0.11	0.074 U	0.074 U	0.0351 J	0.0331 J	0.074 U	0.074 U	0.155	0.074 U	0.0205 J	0.18 U	0.074 U	0.103	0.117
TLS-4	SS (0.0-0.5)	8-Mar-02	0.0924	0.065 J	0.174	0.0785	0.144	0.073 U	0.0588 J	0.13	0.073 U	0.0186 J	0.0284 J	0.0512 J	0.073 U	0.0323 J	0.188	0.073 U	0.0344 J	0.18 U	0.0181 J	0.123	0.117
TLS-4	SB (8-10)	8-Mar-02	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.13	0.341	0.11 U	0.0538 J	0.11 U	0.075 J	0.439	0.265	0.315	0.268	0.28 U	0.549	0.939	0.124
TLS-5	SS (0.0-0.5)	9-Mar-02	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.082	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.032 J	0.071 U	0.071 U	0.18 U	0.071 U	0.026 J	0.021 J
TLS-5	SB (8-10)	9-Mar-02	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.12	0.28	0.1 U	0.1 U	0.1 U	0.166	0.378	0.1 U	0.28	0.0861 J	0.26 U	0.553	0.119	0.1 U
TLS-6	SS (0.0-0.5)	10-Mar-02	0.0773 J	0.0608 J	0.148 J	0.0628 J	0.128	0.09 UJ	0.0464 J	0.13	0.09 U	0.09 U	0.0465 J	0.0397 J	0.09 U	0.026 J	0.145	0.09 U	0.135	0.22 U	0.0801 J	0.175	0.373
TLS-6	SB (3-5)	10-Mar-02	328 J	8.9 UJ	8.9 UJ	8.9 UJ	17.1	8.9 UJ	8.9 UJ	43	8.9 U	8.9 U	8.9 U	8.9 UJ	8.9 U	8.9 U	8.9 U	8.9 U	8.9 U	22 U	2.19 J	8.9 U	8.9 U
TLS-7	SS (0.0-0.5)	11-Mar-02	0.0714 J	0.114	0.309	0.1	0.179	0.0291 J	0.102	0.19	0.099 U	0.099 U	0.0421 J	0.0869 J	0.099 U	0.099 U	0.106	0.099 U	0.0308 J	0.25 U	0.099 U	0.086 J	0.095 J
TLS-8	SS (0.0-0.5)	12-Mar-02	0.0495 J	0.05 J	0.106	0.0466 J	0.0724 J	0.076 U	0.0622 J	0.11	0.076 U	0.076 U	0.076 U	0.0639 J	0.076 U	0.076 U	0.0654 J	0.076 U	0.076 U	0.19 U	0.076 U	0.0421 J	0.137
TLS-8	SB (6-8)	12-Mar-02	0.0896	0.0622 J	0.0849 J	0.0387 J	0.0834 J	0.087 U	0.0307 J	0.13	0.0471 J	0.087 U	0.042 J	0.0265 J	0.087 U	0.0282 J	0.231	0.034 J	0.087 U	0.22 U	0.087 U	0.186	0.192
TLS-9	SS (0.0-0.5)	13-Mar-02	0.36 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.36 U	0.36 UJ	0.36 UJ	0.42	0.36 U	0.36 U	0.36 U	0.36 UJ	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.91 U	0.36 U	0.36 U	0.36 U
WWT-1A	SS (0.0-0.5)	14-Mar-02	0.138 J	0.39 UJ	0.39 UJ	0.39 UJ	0.12 J	0.39 UJ	0.39 UJ	0.44	0.39 U	0.39 U	0.39 U	0.39 UJ	0.39 U	0.39 U	0.137 J	0.39 U	0.39 U	0.98 U	0.39 U	0.39 U	0.167 J
WWT-2	SS (0.0-0.5)	15-Mar-02	0.0577 J	0.072 UJ	0.0803 J	0.0474 J	0.0938	0.072 UJ	0.072 UJ	0.090	0.072 U	0.072 U	0.0426 J	0.072 UJ	0.041 J	0.072 U	0.0489 J	0.072 U	0.072 U	0.18 U	0.0911	0.0481 J	0.226
WWT-3	SS (0.0-0.5)	16-Mar-02	0.12 J	0.36 U	0.36 U	0.36 U	0.148 J	0.36 U	0.36 U	0.41	0.36 U	0.36 U	0.0707 J	0.36 U	0.36 U	0.36 U	0.203 J	0.36 U	0.36 U	0.9 U	0.126 J	0.154 J	0.467

Notes:
Carcinogenic PAHs were converted to a benzo(a)pyrene equivalent concentration using the Toxic Equivalency Factors presented in the table and summed to calculate a Furan Toxic Equivalency Quotient (TEQ). Non-detect results were summed using one-half the method detection limit (MDL). For duplicate carcinogenic PAH samples, the benzo(a)pyrene TEQ was calculated prior to applying the duplicate handling process described below.

SS = Surface soil (0 to 2 ft bgs)
SB = Subsurface soil (2 to 10 ft bgs)
mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; method detection limit (MDL) presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables

Table A-1.6b
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Semivolatile Organic Componds (SVOCs) (mg/kg)																											
			Acetophenone	1,1'-Biphenyl	Bis(2-Ethylhexyl) Phthalate	Butyl Benzyl Phthalate	Carbazole	4-Chloroaniline	Cresols, M & P	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dichlorophenol	Diethyl Phthalate	Dimethyl Phthalate	2,4-Dimethylphenol	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	4-Nitroaniline	Nitrobenzene	N-Nitrosodiphenylamine	Pentachlorophenol	Phenol	1,2,4-Trichlorobenzene	2,4,5-Trichlorophenol
12K-B1	SS (0.0-0.5)	6-Sep-01	--	--	0.524	0.079 U	0.079 U	0.2 U	0.2 U	0.079 U	0.079 U	0.079 U	0.2 U	0.079 U	0.079 U	0.2 U	0.079 U	0.079 UJ	0.079 U	0.079 U	1.22	0.079 U	0.2 U	0.2 U	0.079 U	0.2 U	0.79 U	0.2 U	0.079 U	0.2 U
12K-B1	SS (0.5-2)	6-Sep-01	--	--	0.085 U	0.085 U	0.085 U	0.21 U	0.21 U	0.085 U	0.085 U	0.085 U	0.21 U	0.085 U	0.085 U	0.21 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.21 U	0.21 U	0.085 U	0.21 U	0.85 U	0.21 U	0.085 U	0.21 U
12K-B2	SS (0.0-0.5)	7-Sep-01	--	--	0.398	0.081 U	0.081 U	0.2 U	0.2 U	0.081 U	0.081 U	0.081 U	0.2 U	0.081 U	0.399	0.2 U	0.081 U	0.081 U	0.081 U	0.081 U	1.9	0.081 U	0.2 U	0.2 U	0.081 U	0.2 U	0.81 U	0.2 U	0.081 U	0.2 U
12K-B2	SS (0.5-2)	7-Sep-01	--	--	0.079 U	0.079 U	0.079 U	0.2 U	0.2 U	0.079 U	0.079 U	0.079 U	0.2 U	0.079 U	0.079 U	0.2 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.2 U	0.2 U	0.079 U	0.2 U	0.79 U	0.2 U	0.079 U	0.2 U
150K-1	SS (0.0-0.5)	8-Sep-01	--	--	0.4 U	0.4 U	0.335 J	1 U	1 U	0.4 U	0.4 U	0.4 U	1 U	0.4 U	0.4 U	1 U	0.4 U	0.4 UJ	0.4 U	0.4 U	0.4 U	0.4 U	1 U	1 U	0.4 U	1 U	4 U	1 U	0.32 J	1 U
150K-1	SS (0.5-2)	8-Sep-01	--	--	0.039 J	0.077 U	0.0507 J	0.19 U	0.19 U	0.077 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.0664 J	0.19 U
230-B1	SS (0.0-0.5)	27-Oct-01	--	--	0.101	0.079 U	0.079 U	0.2 U	0.2 U	0.079 U	0.079 U	0.079 U	0.2 U	0.079 U	0.079 U	0.2 U	0.079 U	0.079 U	0.079 U	0.079 U	0.0501 J	0.079 U	0.2 U	0.2 U	0.079 U	0.2 U	0.79 U	0.2 U	0.0324 J	0.2 U
230-B1	SB (4-6)	27-Oct-01	--	--	0.39 U	0.39 U	0.39 U	0.98 U	0.98 U	1.44	0.39 U	0.38 J	0.98 U	0.39 U	0.39 U	0.98 U	0.39 U	0.39 U	256	196	0.39 U	0.39 U	0.98 U	0.98 U	0.39 U	0.98 U	3.9 U	0.98 U	0.243 J	0.98 U
230-B10	SS (0.0-0.5)	28-Oct-01	--	--	0.505	0.099 U	0.313	0.25 U	0.25 U	0.099 U	0.0313 J	0.065 J	0.25 U	0.099 U	0.099 U	0.25 U	0.099 U	0.099 UJ	0.099 U	0.099 U	0.702	0.099 U	0.25 U	0.25 U	0.099 U	0.25 U	0.99 U	0.25 U	0.337	0.25 U
230-B10	SS (1.5-2)	28-Oct-01	--	--	0.086 U	0.086 U	0.0743 J	0.21 U	0.21 U	0.086 U	0.086 U	0.086 U	0.21 U	0.086 U	0.086 U	0.21 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.21 U	0.21 U	0.086 U	0.21 U	0.86 U	0.21 U	0.87	0.21 U
230-B11	SS (0.0-0.5)	29-Oct-01	--	--	0.291	0.072 U	0.072 U	0.18 U	0.18 U	0.072 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.072 U	0.072 U	0.16	0.072 U	0.18 U	0.18 U	0.072 U	0.18 U	0.72 U	0.18 U	0.0714 J	0.18 U
230-B11	SS (1.5-2)	29-Oct-01	--	--	0.0483 J	0.072 U	0.072 U	0.18 U	0.18 U	0.0208 J	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.18 U	0.18 U	0.072 U	0.18 U	0.72 U	0.18 U	0.0405 J	0.18 U
230-B2	SS (0.0-0.5)	30-Oct-01	--	--	0.0736 J	0.08 U	0.08 U	0.2 U	0.2 U	0.0274 J	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U	0.08 U	0.297	0.08 U	0.2 U	0.2 U	0.08 U	0.2 U	0.8 U	0.2 U	0.0513 J	0.2 U
230-B2	SS (1.5-2)	30-Oct-01	--	--	0.072 U	0.072 U	0.072 U	0.18 U	0.18 U	0.072 U	0.072 U	0.0665 J	0.18 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.18 U	0.18 U	0.072 U	0.18 U	0.72 U	0.18 U	0.072 U	0.18 U
230-B3	SS (0.0-0.5)	31-Oct-01	--	--	0.075 J	0.0476 J	0.076 U	0.19 U	0.19 U	0.076 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	0.0259 J	0.076 U	0.19 U	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.076 U	0.19 U
230-B3	SS (1.5-2)	31-Oct-01	--	--	0.0922	0.078 U	0.256	0.112 J	0.2 U	0.151	0.342	0.23	0.2 U	0.078 U	0.078 U	0.2 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.2 U	0.2 U	0.078 U	0.2 U	0.78 U	0.2 U	0.436	0.2 U
230-B4	SS (0.0-0.5)	1-Nov-01	--	--	0.175	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.2 U	0.8 U	0.2 U	0.0463 J	0.2 U
230-B4	SS (1.5-2)	1-Nov-01	--	--	0.076 U	0.076 U	0.076 U	0.19 U	0.19 U	0.076 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.19 U	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.0268 J	0.19 U
230-B5	SS (0.0-0.5)	2-Nov-01	--	--	0.403	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U	0.08 U	0.0398 J	0.08 U	0.2 U	0.2 U	0.08 U	0.2 U	0.8 U	0.2 U	0.095	0.2 U
230-B5	SS (1.5-2)	2-Nov-01	--	--	0.0665 J	0.075 U	0.13	0.19 U	0.19 U	0.0527 J	0.816	0.341	0.19 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.19 U	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	3.09	0.19 U
230-B6	SS (0.0-0.5)	3-Nov-01	--	--	0.272	0.076 U	0.076 U	0.19 U	0.19 U	0.076 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.19 U	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.076 U	0.19 U
230-B6	SS (1.5-2)	3-Nov-01	--	--	0.076 U	0.076 U	0.076 U	0.19 U	0.19 U	0.076 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.19 U	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.0473 J	0.19 U
230-B7	SS (0.0-0.5)	25-Apr-02	--	--	0.367	0.081 U	0.081 U	0.2 U	0.2 U	0.081 U	0.081 U	0.081 U	0.2 U	0.081 U	0.0554 J	0.2 U	0.081 U	0.081 U	0.0857	0.081 U	0.081 U	0.081 U	0.2 U	0.2 U	0.081 U	0.2 U	0.81 U	0.2 U	0.081 U	0.2 U
230-B7	SS (1.5-2)	25-Apr-02	--	--	0.082 U	0.082 U	0.082 U	0.2 U	0.2 U	0.0473 J	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.2 U	0.2 U	0.082 U	0.2 U	0.82 U	0.2 U	0.0695 J	0.2 U
230-B7 DUP	SS (1.5-2)	25-Apr-02	--	--	0.08 U	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.34	0.8 U	0.2 U	0.0541 J	0.2 U
230-B8	SS (1.5-2)	4-May-02	--	--	0.0467 J	0.083 U	0.234	0.21 U	0.21 U	0.083 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.21 U	0.21 U	0.083 U	0.21 U	0.83 U	0.21 U	0.0812 J	0.21 U
230-B9	SS (0.0-0.5)	4-Oct-01	--	--	0.071 U	0.071 U	0.071 U	0.18 U	0.18 U	0.071 U	0.071 U	0.071 U	0.18 U	0.071 U	0.071 U	0.18 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.18 U	0.18 U	0.071 U	0.18 U	0.71 U	0.18 U	0.071 U	0.18 U
230-B9 DUP	SS (0.0-0.5)	4-Oct-01	--	--	0.0599 J	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.077 U	0.19 U
230-B9	SS (1.5-2)	4-Oct-01	--	--	0.075 U	0.075 U	0.075 U	0.19 U	0.19 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.19 U	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	0.075 U	0.19 U
231-B1	SS (0.0-0.5)	5-Nov-01	--	--	0.075 U	0.075 U	0.075 U	0.19 U	0.19 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.075 U	0.075 U	1.65	1.19	0.19 U	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	0.075 U	0.19 U
231-B10	SS (0.0-0.5)	6-Nov-01	--	--	0.973	0.083 U	0.083 U	0.21 U	0.21 U	0.083 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.083 U	0.083 U	0.0657 J	0.083 U	0.21 U	0.21 U	0.083 U	0.21 U	0.83 U	0.21 U	0.083 U	0.21 U
231-B11	SS (0.0-0.5)	7-Nov-01	--	--	0.136	0.094 U	0.094 U	0.23 U	0.23 U	0.433	0.094 U	0.094 U	0.23 U	0.094 U	0.094 U	0.23 U	0.094 U	0.094 U	0.094 U	0.094 U	8.53	0.094 U	0.23 U	0.23 U	0.094 U	0.23 U	0.94 U	0.23 U	0.258	0.23 U
231-B11	SB (8-10)	7-Nov-01	--	--	0.103	0.085 U	0.085 U	0.21 U	0.21 U	0.0329 J	0.085 U	0.085 U	0.21 U	0.085 U	0.085 U	0.21 U	0.085 U	0.085 U	0.085 U	0.085 U	0.188	0.085 U	0.21 U	0.21 U	0.085 U	0.21 U	0.85 U	0.21 U	0.0489 J	0.21 U
231-B12	SS (0.0-0.5)	8-Nov-01	--	--	2.94	0.075 U	0.075 U	0.19 U	0.19 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.19 U	0.216	0.075 U	0.075 U	0.075 U	0.0731 J	0.075 U	0.0533 J	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	0.075 U	0.19 U
231-B13	SS (0.0-0.5)	9-Nov-01	--	--	0.534	0.39 U	0.39 U	0.96 U	0.96 U	0.39 U	0.39 U	0.39 U	0.96 U	0.39 U	0.39 U	0.96 U	0.39 U	0.39 U	0.39 U	0.39 U	1440	0.628	0.96 U	0.96 U	0.39 U	0.96 U	3.9 U	0.96 U	0.178 J	0.96 U
231-B13	SB (8-10)	9-Nov-01	--	--	0.311	0.077 U	0.077 U	0.19 U	0.19 U	0.0823	0.077 U	0.0279 J	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.669	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.172	0.19 U
231-B14	SS (0.0-0.5)	10-Nov-01	--	--	0.0521 J	0.082 U	0.082 U	0.2 U	0.2 U	0.082 U	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.082 U	0.082 U	0.0669 J	0.082 U	0.2 U	0.2 U	0.082 U	0.2 U	0.82 U	0.2 U	0.082 U	0.2 U
231-B2	SS (0.0-0.5)	9-Sep-01	--	--	0.3	0.074 U	0.0776	0.18 U	0.18 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U	0.074 U	6.2	25.4	0.18 U	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.136	0.18 U
231-B2	SS (0.5-2)	9-Sep-01	--	--	0.074 U	0.074 U	0.259	0.18 U	0.18 U	0.0785	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U	0.074 U	6.76	95.9	0.18 U	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.424	0.18 U
231-B3	SS (0.0-0.5)	12-Nov-01	--	--	1.17	0.077 U	0.077 U	0.19 U	0.19 U	0.0234 J	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.552	21	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.031 J	0.19 U
231-B4	SS (0.0-0.5)	13-Nov-01	--	--	0.0822	0.077 U	0.077 U	0.19 U	0.19 U	0.0226 J	0.077 U	0.0708 J	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.026 J	0.124	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.059 J	0.19 U
231-B4	SB (6-8)	13-Nov-01	--	--	0.125	0.08 U	0.0264 J	0.2 U	0.0334 J	0.5	0.274	1.05	0.2 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	1.37	0.2 U	0.2 U	0.08 U	0.2 U	0.8 U	0.2 U	0.208	0.2 U
231-B5	SS (0.5-2)	10-Sep-01	--	--	0.85	0.084 U	0.0768 J	0.21 U	0.21 U	0.084 U	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.084 U	0.084 U	0.135	0.084 U	0.21 U	0.21 U	0.084 U	0.21 U	0.84 U	0.21 U	0.0476 J	0.21 U
231-B6	SS (0.0-0.5)	14-Nov-01	--	--	0.398	0.091 U	0.029 J	0.23 U	0.23 U	0.0572 J	0.091 U	0.0245 J	0.23 U	0.091 U	0.091 U	0.23 U	0.091 U	0.091 U	0.091 U	0.091 U	1.53	6.54	0.23 U	0.23 U	0.091 U	0.23 U	0.91 U	0.23 U	0.249	0.23 U
231-B6	SB (4-6)	14-Nov-01	--	--	3.3	0.638	0.075 U	0.19 U	0.19 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.581	0.19 U	0.125	0.075 U	0.075 U	0.075 U	6.69	0.134	0.0833 J	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	0.0249 J	0.19 U
231-B7	SS (0.0-0.5)	6-Oct-01	--	--	1.33	0.41 U	0.41 U	1 U	1 U	0.41 U	0.41 U	0.41 U	1 U	0.41 U	0.41 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	1.33	0.41 U	1 U	1 U	0.41 U	1 U	4.1 U	1 U	0.41 U	1 U
231-B7 DUP	SS (0.0-0.5)	6-Oct-01	--	--	2.29	0.43 U	0.43 U	1.1 U	1.1 U	0.43 U	0.43 U	0.43 U	1.1 U	0.43 U	0.43 U	1.1 U	0.43 U	0.43 U	0.43 U	0.43 U	2.16	0.43 U	1.1 U	1.1 U	0.43 U	1.1 U	4.3 U	1.1 U	0.43 U	1.1 U
231-B8	SS (0.0-0.5)	15-Nov-01	--	--	0.87 J	0.354 J	0.16 UJ	0.39 UJ	0.39 UJ	0.14 J	0.16 UJ	0.0486 J	0.39 UJ	0.16 UJ	2.96 J	0.39 UJ	0.529 J	0.16 UJ	0.16 UJ	0.16 UJ	5.64 J	0.691 J	0.776 J	0.39 UJ	0.16 UJ	0.39 UJ	0.5 J	0.39 UJ	1.17 J	0.39 UJ
231-B8	SB (8-10)	15-Nov-01	--	--	6.5 U	6.5 U	6.5 U	16 U	16 U	775 J	63	158	16 U	6.5 U	6.5 U	16 U	6.5 U	6.5 UJ	6.5 U	6.5 U	6.5 U	233	16 U	16 U	6.5 U	16 U	65 U	16 U	4640 J	16 U
231-B9	SS (0.0-0.5)	11-Sep-01	--	--	16.6	3.57	0.47 U	1.2 U	1.2 U	0.47 U	0.47 U	0.47 U	1.2 U	0.47 U	0.288 J	1.2 U	0.9	0.47 UJ	0.47 U	0.47 U	13.3	0.47 U	0.772 J	1.2 U	0.47 U	1.2 U	0.772 J	1.2 U	0.47 U	1.2 U
231-B9	SS (0.5-2)	11-Sep-01	--	--	0.349	0.094 U	0.094 U	0.23 U	0.23 U	0.0645 J	0.094 U	0.0512 J	0.23 U	0.094 U	0.094 U	0.23 U	0.094 U	0.094 U	0.094 U	0.094 U	0.0547 J	0.094 U	0.23 U	0.23 U	0.094 U	0.23 U	0.94 U	0.23 U	0.138	0.23 U
240-1	SS (0.0-0.5)	17-Nov-01	--	--	0.266	0.081 U	0.081 U	0.2 U	0.2 U	0.081 U	0.081 U	0.081 U	0.2 U	0.081 U	0.0626 J	0.2 U	0.081 U	0.081 U	0.081 U	0.081 U	0.118	0.081 U	0.2 U	0.2 U	0.081 U	0.2 U	0.81 U	0.2 U	0.142	0.2 U
240-1	SB (8-10)	17-Nov-01	--	--	0.081 U	0.081 U	0.081 U	0.2 U	0.2 U	0.081 U	0.081 U	0.081 U	0.2 U	0.081 U	0.081 U	0.2 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.2 U	0.2 U	0.081 U	0.2 U	0.81 U	0.2 U	0.081 U	0.2 U
5K-B1	SS (0.0-0.5)	18-Nov-01	--	--	0.41 U	0.41 U	0.41 U	1 U	1 U	0.41 U	0.41 U	0.41 U	1 U	0.41 U	0.41 U	1 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1 U	1 U	0.41 U	1 U	4.1 U	1 U	0.41 U	1 U
5K-B2	SS (0.0-0.5)	19-Nov-01	--	--	0.071 U	0.071 U	0.071 U	0.18 U	0.18 U	0.071 U	0.071 U	0.071 U	0.18 U	0.071 U	0.832	0.18 U	0.071 U	0.071 UJ	0.071 U	0.071 U	0.0835	0.071 U	0.18 U	0.18 U	0.071 U	0.18 U	0.71 U	0.18 U	0.071 U	0.18 U
5K-B2	SB (8-10)	19-Nov-01	--	--	0.082 U	0.082 U	0.0626 J	0.2 U	0.2 U	0.082 U	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.2 U	0.2 U	0.082 U	0.2 U	0.82 U	0.2 U	0.122	0.2 U
5K-B3	SS (0.0-0.5)	20-Nov-01	--	--	0.177	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.2 U	0.11	0.08 UJ	0.08 U	0.08 U	0.084	0.08 U	0.2 U	0.2 U	0.0882	0.2 U	0.8 U	0.2 U	0.0684 J	0.2 U
5K-B4	SS (0.0-0.5)	21-Nov-01	--	--	0.46 U	0.46 U	0.46 U	1.2 U	1.2 U	0.46 U	0.46 U	0.46 U	1.2 U	0.46 U	0.46 U	1.2 U	0.46 U	0.46 UJ	0.46 U	0.46 U	0.282 J	0.46 U	1.2 U	1.2 U	0.46 U	1.2 U	4.6 U	1.2 U	0.46 U	1.2 U
5K-B4	SB (4-6)	21-Nov-01	--	--	2.59	0.55 U	3.9	1.4 U	1.4 U	19.4	5.46	16.3	1.4 U	0.55 U	0.55 U	1.4 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	1.4 U	1.4 U	0.55 U	1.4 U	5.5 U	1.4 U	6.58	1.4 U
5K-B5	SS (0.0-0.5)	22-Nov-01	--	--	0.151	0.078 U	0.116	0.183 J	0.2 U	0.522	0.193	0.0855	0.2 U	0.078 U	0.078 U	0.2 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.2 U	0.2 U	0.078 U	0.2 U	0.78 U	0.2 U	0.849	0.2 U
5K-B5	SB (4-6)	22-Nov-01	--	--	0.328	0.087 U	0.0638 J	1.08	0.22 U	0.511	0.37	0.448	0.22 U	0.087 U	0.087 U	0.22 U	0.087 U	0.087 U	0.087 U	0.087 U	0.127	0.087 U	0.22 U	0.22 U	0.087 U	0.22 U	0.87 U	0.22 U	0.192	0.22 U
5K-B5 DUP	SB (4-6)	22-Nov-01	--	--	0.442	0.09 U	0.045 J	3.31	0.22 U	0.499	0.509	0.485	0.22 U	0.09 U	0.09 U	0.22 U	0.09 U	0.09 UJ	0.09 U	0.09 U	0.0574 J	0.09 U	0.22 U	0.22 U	0.09 U	0.22 U	0.9 U	0.22 U	0.187	0.22 U
AB-1	SS (0.0-0.5)	23-Nov-01	--	--	0.439	0.078 U	0.0374 J	0.2 U	0.2 U	0.0402 J	0.078 U	0.078 U	0.2 U	0.078 U	0.0644 J	0.2 U	0.593	0.078 U	0.078 U	0.078 U	1.4	0.536	0.15 J	0.2 U	0.078 U	0.2 U	0.425 J	0.2 U	0.146	0.105 J
AB-2	SS (0.0-0.5)	12-Sep-01	--	--	0.138	0.081 U	0.081 U	0.2 U	0.2 U	0.031 J	0.081 U	0.081 U	0.2 U	0.081 U	0.081 U	0.2 U	0.081 U	0.081 U	0.081 U	0.081 U	3.64	0.198	0.0745 J	0.2 U	0.081 U	0.2 U	0.81 U	0.2 U	0.116	0.2 U
AB-2	SS (0.5-2)	12-Sep-01	--	--	0.584	0.087 U	0.0224 J	0.22 U	0.22 U	0.486	0.0739 J	0.0709 J	0.22 U	0.087 U	0.087 U	0.22 U	0.087 U	0.087 UJ	0.087 U	0.087 U	24.8	1.09	0.0648 J	0.22 U	0.366	0.22 U	0.87 U	0.22 U	0.543	0.22 U
ADN-1	SS (0.0-0.5)	25-Nov-01	--	--	0.118	0.076 U	0.0523 J	0.19 U	0.19 U	0.053 J	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	0.206	0.076 U	0.19 U	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.076 U	0.19 U
ADN-1	SB (8-10)	25-Nov-01	--	--	0.096 U	0.096 U	0.87	0.532	0.33	26.4	1.93	3.44	0.24 U	0.096 U	0.096 U	0.24 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.24 U	0.24 U	0.096 U	0.24 U	0.96 U	0.24 U	2.93	0.24 U
ADN-1 DUP	SB (8-10)	25-Nov-01	--	--	0.084 U	0.084 U	1.58	0.83	0.21 U	17.9	1.2	2.18	0.21 U	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.21 U	0.21 U	0.084 U	0.21 U	0.84 U	0.21 U	7.55	0.21 U
ADN-2	SS (0.0-0.5)	26-Nov-01	--	--	0.0909	0.082 U	0.082 U	0.2 U	0.2 U	0.081 J	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.2 U	0.2 U	0.082 U	0.2 U	0.82 U	0.2 U	0.082 U	0.2 U
ADS-1	SS (0.0-0.5)	27-Nov-01	--	--	0.37 U	0.37 U	0.133 J	0.94 U	0.94 U	0.37 U	0.37 U	0.37 U	0.94 U	0.37 U	0.37 U	0.94 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.94 U	0.94 U	0.37 U	0.94 U	3.7 U	0.94 U	0.37 U	0.94 U
ADS-10	SS (0.0-0.5)	28-Nov-01	--	--	0.896	0.077 U	0.1	0.19 U	0.19 U	0.077 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19

ATTACHMENT A
Supplemental Data Tables

Table A-1.6b
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Semivolatile Organic Componds (SVOCs) (mg/kg)																											
			Acetophenone	1,1'-Biphenyl	Bis(2-Ethylhexyl) Phthalate	Butyl Benzyl Phthalate	Carbazole	4-Chloroaniline	Cresols, M & P	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dichlorophenol	Diethyl Phthalate	Dimethyl Phthalate	2,4-Dimethylphenol	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	4-Nitroaniline	Nitrobenzene	N-Nitrosodiphenylamine	Pentachlorophenol	Phenol	1,2,4-Trichlorobenzene	2,4,5-Trichlorophenol
ADS-3	SS (0.0-0.5)	1-Dec-01	--	--	0.485	0.078 U	0.078 U	0.19 U	0.19 U	0.0626 J	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.19 U	0.078 U	0.078 UJ	0.078 U	0.078 U	0.123	0.078 U	0.19 U	0.19 U	0.078 U	0.19 U	0.78 U	0.19 U	0.178	0.19 U
ADS-4	SS (0.0-0.5)	2-Dec-01	--	--	0.404	0.077 U	0.077 U	0.19 U	0.19 U	0.0936	0.0817	0.0662 J	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 UJ	0.077 U	0.077 U	0.241	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.154	0.19 U
ADS-5	SS (0.0-0.5)	3-Dec-01	--	--	0.36 UJ	0.36 UJ	0.36 U	0.9 U	0.9 U	0.36 U	0.36 U	0.36 U	0.9 U	0.36 U	0.36 U	0.9 U	0.36 U	0.36 UJ	0.36 U	0.36 U	0.36 U	0.36 U	0.9 U	0.9 U	0.36 U	0.9 U	3.6 U	0.9 U	0.36 U	0.9 U
ADS-5	SB (4-6)	3-Dec-01	--	--	2.13	0.074 U	0.074 U	0.19 U	0.19 U	0.074 U	0.074 U	0.074 U	0.19 U	0.074 U	0.074 U	0.19 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.19 U	0.19 U	0.074 U	0.19 U	0.74 U	0.19 U	0.074 U	0.19 U
ADS-5 DUP	SB (4-6)	3-Dec-01	--	--	1.73	0.074 U	0.074 U	0.18 U	0.18 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.18 U	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.074 U	0.18 U
ADS-6	SS (0.0-0.5)	14-Sep-01	--	--	2.7	0.38 U	0.38 U	0.95 U	0.95 U	0.391	0.38 U	0.38 U	0.95 U	0.38 U	0.38 U	0.95 U	0.38 U	0.38 U	0.38 U	0.38 U	0.821	0.38 U	0.95 U	0.95 U	0.38 U	0.95 U	3.8 U	0.95 U	0.38 U	0.95 U
ADS-6	SS (0.5-2)	14-Sep-01	--	--	2.09	0.076 U	0.076 U	0.19 U	0.19 U	0.429	0.113	0.0972	0.19 U	0.076 U	0.29	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	10.5	0.338	0.136 J	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.704	0.19 U
ADS-7	SS (0.0-0.5)	5-Dec-01	--	--	0.803	0.36 U	0.36 U	0.9 U	0.9 U	0.36 U	0.36 U	0.36 U	0.9 U	0.36 U	0.36 U	0.9 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.9 U	0.9 U	0.36 U	0.9 U	3.6 U	0.9 U	0.36 U	0.9 U
ADS-8	SS (0.0-0.5)	6-Dec-01	--	--	0.0796 J	0.082 U	0.082 U	0.21 U	0.21 U	0.082 U	0.082 U	0.082 U	0.21 U	0.082 U	0.0581 J	0.21 U	0.082 U	0.082 U	0.082 U	0.082 U	0.188	0.082 U	1.27	0.21 U	0.082 U	0.21 U	0.82 U	0.21 U	0.082 U	0.21 U
ADS-8	SB (4-6)	6-Dec-01	--	--	0.0785 J	0.083 U	0.083 U	0.21 U	0.21 U	0.083 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.083 U	0.083 U	0.116	0.083 U	1.95	0.21 U	0.083 U	0.21 U	0.83 U	0.21 U	0.083 U	0.21 U
ADS-9	SS (0.0-0.5)	7-Dec-01	--	--	0.086 U	0.086 U	0.086 U	0.22 U	0.22 U	0.086 U	0.086 U	0.086 U	0.22 U	0.086 U	0.086 U	0.22 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.22 U	0.22 U	0.086 U	0.22 U	0.86 U	0.22 U	0.086 U	0.22 U
BT-B1	SS (0.0-0.5)	8-Dec-01	--	--	0.244	0.081 U	0.081 U	0.2 U	0.2 U	0.081 U	0.081 U	0.081 U	0.2 U	0.081 U	0.081 U	0.2 U	11.4	0.081 U	0.081 U	0.081 U	0.0926	0.0734 J	0.0815 J	0.2 U	0.081 U	0.2 U	0.81 U	0.2 U	0.0494 J	0.2 U
BT-B2	SS (0.0-0.5)	15-Sep-01	--	--	0.305	0.086 U	0.241	0.22 U	0.22 U	0.568	0.086 U	0.15	0.22 U	0.0558 J	0.086 U	0.22 U	23	0.086 U	0.086 U	0.086 U	0.74	0.129	0.185 J	0.22 U	0.086 U	0.22 U	0.86 U	0.22 U	0.386	0.22 U
BT-B2	SS (0.5-2)	15-Sep-01	--	--	0.0424 J	0.079 U	0.079 U	0.2 U	0.2 U	0.079 U	0.079 U	0.079 U	0.2 U	0.079 U	0.079 U	0.2 U	0.046 J	0.079 U	0.079 U	0.079 U	0.143	0.0421 J	0.119 J	0.2 U	0.079 U	0.2 U	0.79 U	0.2 U	0.079 U	0.2 U
BT-B3	SS (0.0-0.5)	10-Dec-01	--	--	6.12	0.39 U	0.39 U	0.96 U	0.96 U	0.39 U	0.39 U	0.39 U	0.96 U	0.39 U	0.39 U	0.96 U	0.39 U	0.39 U	0.39 U	0.39 U	184	0.39 U	0.96 U	0.96 U	0.39 U	0.96 U	3.9 U	0.96 U	0.359 J	0.96 U
BT-B4	SS (0.0-0.5)	16-Sep-01	--	--	0.34 U	0.34 U	0.34 U	0.84 U	0.84 U	0.34 U	0.34 U	0.34 U	0.84 U	0.34 U	0.34 U	0.84 U	0.34 U	0.34 UJ	0.34 U	0.34 U	0.34 U	0.34 U	0.84 U	0.84 U	0.34 U	0.84 U	3.4 U	0.84 U	0.34 U	0.84 U
BT-B4	SS (0.5-2)	16-Sep-01	--	--	0.433	0.077 U	0.032 J	0.19 U	0.19 U	0.021 J	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 UJ	0.077 U	0.077 U	0.784	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.0448 J	0.19 U
BT-B5	SS (0.0-0.5)	10-Oct-01	--	--	0.213	0.081 U	0.0266 J	0.2 U	0.2 U	0.081 U	0.081 U	0.081 U	0.2 U	0.081 U	0.081 U	0.2 U	0.081 U	0.081 UJ	0.081 U	0.081 U	0.83	0.081 U	0.03 J	0.2 U	0.081 U	0.2 U	0.81 U	0.2 U	0.0458 J	0.2 U
BT-B5 DUP	SS (0.0-0.5)	10-Oct-01	--	--	0.401	0.118	0.0296 J	0.19 U	0.19 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.0841	0.19 U	0.0736 J	0.075 U	0.075 U	0.075 U	0.943	0.0284 J	0.235	0.19 U	0.075 U	0.19 U	0.216 J	0.19 U	0.0508 J	0.19 U
BT-B6	SS (0.0-0.5)	17-Sep-01	--	--	0.293 J	0.34 U	0.34 U	0.86 U	0.86 U	0.34 U	0.34 U	0.34 U	0.86 U	0.34 U	0.34 U	0.86 U	0.34 U	0.34 U	0.34 U	0.34 U	12.8	0.34 U	0.86 U	0.86 U	0.34 U	0.86 U	3.4 U	0.86 U	0.34 U	0.86 U
BT-B6	SS (0.5-2)	17-Sep-01	--	--	0.2	0.088 U	0.088 U	0.22 U	0.22 U	0.088 U	0.088 U	0.088 U	0.22 U	0.088 U	0.088 U	0.22 U	0.088 U	0.088 U	0.088 U	0.088 U	1.83	0.088 U	0.22 U	0.22 U	0.088 U	0.22 U	0.88 U	0.22 U	0.069 J	0.22 U
CF-1	SS (0.0-0.5)	13-Dec-01	--	--	0.074 U	0.074 U	0.074 U	0.18 U	0.18 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.18 U	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.074 U	0.18 U
CF-1	SB (2-4)	13-Dec-01	--	--	0.074 U	0.074 U	0.0973	0.19 U	0.19 U	0.074 UJ	0.074 U	0.074 U	0.19 U	0.074 U	0.074 U	0.19 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.19 U	0.19 U	0.074 U	0.19 U	0.74 U	0.19 U	0.074 U	0.19 U
CF-1 DUP	SB (2-4)	13-Dec-01	--	--	0.075 U	0.075 U	0.149	0.19 U	0.19 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.19 U	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	0.0652 J	0.19 U
CF-5	SS (0.0-0.5)	14-Dec-01	--	--	0.07 U	0.07 U	0.07 U	0.17 U	0.17 U	0.07 U	0.07 U	0.07 U	0.17 U	0.07 U	0.07 U	0.17 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.17 U	0.17 U	0.07 U	0.17 U	0.7 U	0.17 U	0.07 U	0.17 U
CF-5	SB (4-6)	14-Dec-01	--	--	0.075 U	0.075 U	0.075 U	0.19 U	0.19 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	1.26	0.19 U	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	0.075 U	0.19 U
CF-6	SS (0.0-0.5)	12-Oct-01	--	--	0.077 U	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.077 U	0.19 U
CF-6 DUP	SS (0.0-0.5)	12-Oct-01	--	--	0.077 U	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.077 U	0.19 U
CF-7	SS (0.0-0.5)	15-Dec-01	--	--	0.0508 J	0.075 U	0.075 U	0.19 U	0.19 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.075 U	0.075 U	0.0423 J	0.481	0.19 U	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	0.0396 J	0.19 U
CF-7	SB (4-6)	15-Dec-01	--	--	0.07 U	0.07 U	0.07 U	0.18 U	0.18 U	0.0453 J	0.07 U	0.07 U	0.18 U	0.07 U	0.07 U	0.18 U	0.105	0.07 UJ	0.07 U	0.07 U	0.446	0.0732	0.18 U	0.18 U	0.07 U	0.18 U	0.7 U	0.18 U	0.116	0.18 U
CF-8	SS (0.0-0.5)	16-Dec-01	--	--	0.208	0.077 U	0.06 J	0.19 U	0.19 U	0.077 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.226	0.077 U	0.077 U	0.077 U	0.0524 J	0.593	0.0586 J	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.077 U	0.19 U
CF-9	SS (0.0-0.5)	18-Sep-01	--	--	0.074 U	0.074 U	0.074 U	0.18 U	0.18 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.18 U	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.074 U	0.18 U
CF-9	SS (0.5-2)	18-Sep-01	--	--	0.072 U	0.072 U	0.072 U	0.18 U	0.18 U	0.072 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.18 U	0.18 U	0.072 U	0.18 U	0.72 U	0.18 U	0.072 U	0.18 U
DC-B12	SS (0.0-0.5)	18-Dec-01	--	--	0.076 U	0.076 U	0.076 U	0.19 U	0.19 U	0.853	3.27	3.36	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	0.0648 J	0.076 U	0.19 U	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	1.29	0.19 U
DC-B12	SB (2-4)	18-Dec-01	--	--	0.153	0.073 U	0.073 U	0.18 U	0.18 U	0.0638 J	0.073 U	0.073 U	0.18 U	0.073 U	0.073 U	0.18 U	0.073 U	0.073 U	0.073 U	0.073 U	0.0474 J	0.073 U	0.18 U	0.18 U	0.073 U	0.18 U	0.73 U	0.18 U	0.273	0.18 U
DC-SED1	SS (0.0-0.5)	19-Dec-01	--	--	129 J	0.78 UJ	0.281 J	1.9 UJ	1.9 UJ	0.78 UJ	0.78 UJ	0.78 UJ	1.9 UJ	0.78 UJ	0.78 UJ	1.9 UJ	0.574 J	0.78 UJ	0.78 UJ	0.78 UJ	10.2 J	0.78 UJ	1.9 UJ	1.9 UJ	0.78 UJ	1.9 UJ	2.02 J	1.9 UJ	0.78 UJ	1.9 UJ
DC-SED2	SS (0.0-0.5)	20-Dec-01	--	--	5.81	0.61 U	0.307 J	1.5 U	1.5 U	0.61 U	0.61 U	0.61 U	1.5 U	0.61 U	0.61 U	1.5 U	0.61 U	0.61 U	0.61 U	0.61 U	0.304 J	0.61 U	1.5 U	1.5 U	0.61 U	1.5 U	6.1 U	1.5 U	0.61 U	1.5 U
DC-SED3	SS (0.0-0.5)	21-Dec-01	--	--	8.11 J	0.24 UJ	0.24 UJ	0.6 UJ	0.6 UJ	0.583 J	0.24 UJ	2.09 J	0.6 UJ	0.24 UJ	0.24 UJ	0.6 UJ	8.5 J	0.24 UJ	0.24 UJ	0.24 UJ	164 J	0.224 J	0.6 UJ	0.6 UJ	0.24 UJ	0.6 UJ	1.53 J	0.6 UJ	0.681 J	0.6 UJ
DC-SS1	SS (0.0-0.5)	22-Dec-01	--	--	1.06	1.93	0.073 U	0.18 U	0.18 U	0.073 U	0.073 U	0.073 U	0.18 U	0.073 U	0.109	0.18 U	0.192	0.073 U	0.073 U	0.073 U	4.3	0.073 U	0.347	0.18 U	0.073 U	0.18 U	0.73 U	0.18 U	0.073 U	0.18 U
DC-SS11	SS (0.0-0.5)	23-Dec-01	--	--	0.472	0.37 U	4.92	0.92 U	0.92 U	2.13	2.24	4.17	0.92 U	0.37 U	0.37 U	0.92 U	0.37 U	0.37 UJ	0.37 U	0.37 U	0.37 U	0.37 U	0.92 U	0.92 U	0.37 U	0.92 U	3.7 U	0.92 U	0.698	0.92 U
DC-SS13	SS (0.0-0.5)	24-Dec-01	--	--	0.35 U	0.35 U	0.35 U	0.86 U	0.86 U	0.35 U	0.35 U	0.35 U	0.86 U	0.35 U	0.35 U	0.86 U	0.35 U	0.35 U	0.35 U	0.35 U	0.589	0.35 U	0.86 U	0.86 U	0.35 U	0.86 U	3.5 U	0.86 U	0.35 U	0.86 U
DC-SS15	SS (0.0-0.5)	25-Dec-01	--	--	0.494	0.41 U	0.239 J	1 U	1 U	0.41 U	0.41 U	0.41 U	1 U	0.41 U	0.594	1 U	0.86	0.41 U	0.41 U	0.41 U	1.64	0.41 U	0.217 J	1 U	0.41 U	1 U	4.1 U	1 U	0.41 U	1 U
DC-SS17	SS (0.0-0.5)	26-Dec-01	--	--	0.202	0.085 U	0.335	0.21 U	0.21 U	0.085 U	0.085 U	0.085 U	0.21 U	0.085 U	0.085 U	0.21 U	0.085 U	0.085 UJ	0.085 U	0.085 U	0.409	0.085 U	0.21 U	0.21 U	0.085 U	0.21 U	0.85 U	0.21 U	0.0513 J	0.21 U
DC-SS18	SS (0.0-0.5)	27-Dec-01	--	--	0.267	0.077 U	0.102	0.19 U	0.19 U	0.0368 J	0.0751 J	0.0547 J	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.211	0.127	0.0446 J	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.143	0.19 U
DC-SS2	SS (0.0-0.5)	28-Dec-01	--	--	0.237	0.0857	0.074 U	0.18 U	0.18 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.043 J	0.18 U	0.0593 J	0.074 U	0.074 U	0.074 U	2.3	0.074 U	0.143 J	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.074 U	0.18 U
DC-SS3	SS (0.0-0.5)	29-Dec-01	--	--	1.3	1.67	0.088 U	0.22 U	0.22 U	0.088 U	0.088 U	0.088 U	0.22 U	0.088 U	0.225	0.22 U	0.106	0.088 U	0.088 U	0.088 U	0.497	0.088 U	0.153 J	0.22 U	0.088 U	0.22 U	0.88 U	0.22 U	0.088 U	0.22 U
DC-SS6	SS (0.0-0.5)	30-Dec-01	--	--	0.146	0.075 U	0.075 U	0.19 U	0.19 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.075 U	0.075 U	0.834	0.0354 J	0.499	0.19 U	0.075 U	0.19 U	0.171 J	0.19 U	0.0314 J	0.19 U
DC-SS7	SS (0.0-0.5)	31-Dec-01	--	--	0.281	0.076 U	0.076 U	0.19 U	0.19 U	0.076 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.19 U	0.0404 J	0.076 U	0.076 U	0.076 U	0.231	0.076 U	0.101 J	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.0493 J	0.19 U
DC-SS9	SS (0.0-0.5)	1-Jan-02	--	--	0.34	0.076 U	0.0907	0.19 U	0.19 U	0.0461 J	0.12	0.0752 J	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	0.156	0.116	0.19 U	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.147	0.19 U
DSP-1	SS (0.0-0.5)	2-Jan-02	--	--	0.11	0.082 U	0.082 U	0.2 U	0.2 U	0.082 U	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.2 U	0.082 U	0.082 U	0.082 U	0.082 U	0.0792 J	0.082 U	0.2 U	0.2 U	0.082 U	0.2 U	0.82 U	0.2 U	0.082 U	0.2 U
DSP-1	SB (4-6)	2-Jan-02	--	--	0.0456 J	0.082 U	0.082 U	0.21 U	0.21 U	0.082 U	0.082 U	0.082 U	0.21 U	0.082 U	0.082 U	0.21 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.21 U	0.21 U	0.082 U	0.21 U	0.82 U	0.21 U	0.082 U	0.21 U
DSP-2	SS (0.0-0.5)	3-Jan-02	--	--	0.179	0.074 U	0.074 U	0.18 U	0.18 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.155	0.18 U	0.074 U	0.074 UJ	0.074 U	0.074 U	0.694	0.074 U	0.18 U	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.074 U	0.18 U
DSP-3	SS (0.0-0.5)	4-Jan-02	--	--	0.38 U	0.38 U	0.38 U	0.94 U	0.94 U	0.38 U	0.38 U	0.38 U	0.94 U	0.38 U	0.62	0.94 U	0.38 U	0.38 UJ	0.38 U	0.38 U	0.38 U	0.38 U	0.94 U	0.94 U	0.38 U	0.94 U	3.8 U	0.94 U	0.38 U	0.94 U
DSP-3	SB (2-4)	4-Jan-02	--	--	0.083 U	0.083 U	0.083 U	0.21 U	0.21 U	0.083 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.21 U	0.21 U	0.083 U	0.21 U	0.83 U	0.21 U	0.083 U	0.21 U
DSP-4	SS (0.0-0.5)	5-Jan-02	--	--	0.0998	0.0595 J	0.085 U	0.21 U	0.21 U	0.085 U	0.085 U	0.085 U	0.21 U	0.085 U	0.136	0.21 U	0.085 U	0.085 UJ	0.085 U	0.085 U	0.0357 J	0.085 U	0.21 U	0.21 U	0.085 U	0.21 U	0.85 U	0.21 U	0.085 U	0.21 U
DSP-4	SB (4-6)	5-Jan-02	--	--	0.0615 J	0.086 U	0.086 U	0.058 J	0.21 U	0.0831 J	0.086 U	0.086 U	0.21 U	0.086 U	0.086 U	0.21 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.21 U	0.21 U	0.086 U	0.21 U	0.86 U	0.246	0.0357 J	0.21 U
ESR-1	SS (0-1)	22-Mar-02	--	--	0.071 U	0.071 U	0.071 U	0.18 U	0.18 U	0.071 U	0.071 U	0.071 U	0.18 U	0.071 U	0.071 U	0.18 U	0.071 U	0.071 U	0.071 U	0.071 U	0.0657 J	0.071 U	0.18 U	0.18 U	0.071 U	0.18 U	0.71 U	0.18 U	0.071 U	0.18 U
ESR-1	SB (4-6)	22-Mar-02	--	--	0.043 J	0.083 U	0.083 U	0.21 U	0.21 U	0.0263 J	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 UJ	0.083 U	0.083 U	0.083 U	0.083 U	0.21 U	0.21 U	0.083 U	0.21 U	0.83 U	0.21 U	0.083 U	0.21 U
HB-102A	SS (0-0)	30-Sep-01	0.038 U	0.029 U	0.077 U	0.045 U	0.024 U	0.037 U	0.086 U	0.071 U	0.076 U	0.072 U	0.1 U	0.026 U	0.026 U	0.15 U	0.038 U	0.051 U	0.069 U	0.068 U	0.034 U	0.039 U	0.03 U	0.041 U	0.042 U	0.025 U	0.067 U	0.074 U	0.054 U	0.09 U
HB-102B	SS (0-0)	1-Oct-01	0.026 U	0.0366 J	1.55	0.031 U	0.0406 J	0.025 U	0.058 U	0.877	0.03 U	0.14 J	0.068 U	0.017 U	0.017 U	0.1 U	0.026 U	0.035 U	0.047 U	0.046 U	0.023 U	0.027 U	0.02 U	0.028 U	0.028 U	0.017 U	0.046 U	0.051 U	0.184 J	0.061 U
HB-102C	SS (0-0)	2-Oct-01	0.024 U	0.018 U	0.118	0.029 U	0.015 U	0.023 U	0.054 U	0.0657 J	0.026 U	0.024 U	0.063 U	0.016 U	0.016 U	0.097 U	0.024 U	0.032 U	0.044 U	0.043 U	0.022 U	0.025 U	0.019 U	0.026 U	0.026 U	0.016 U	0.042 U	0.047 U	0.018 U	0.057 U
HB-105E	SS (0-0)	3-Oct-01	0.026 U	0.02 U	0.052 U	0.031 U	0.016 U	0.025 U	0.058 U	0.028 U	0.03 U	0.028 U	0.068 U	0.017 U	0.017 U	0.1 U	0.026 U	0.035 U	0.047 U	0.046 U	0.023 U	0.027 U	0.02 U	0.028 U	0.028 U	0.017 U	0.045 U	0.05 U	0.021 U	0.061 U
HB-1A	SB (6.75-6.75)	9-Jun-02	--	--	0.12 U	0.12 U	0.102 J	0.3 U	0.944	0.12 U	0.12 U	0.12 U	0.3 U	0.12 U	0.12 U	0.135 J	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.3 U	0.3 U	0.12 U	0.3 U	1.2 U	4.71	0.12 U	0.3 U
HB-3A	SB (5.25-5.25)	11-Jun-02	--	--	0.123 J	0.21 U	0.488	0.52 U	1.15	0.21 U	0.21 U	0.21 U	0.52 U	0.21 U	0.21 U	0.52 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.52 U	0.52 U	0.21 U	0.52 U	2.1 U	1.35	0.133 J	0.52 U
HB-3A DUP	SB (5.25-5.25)	11-Jun-02	--	--	0.18 U	0.18 U	0.302	0.46 U	0.764	0.18 U	0.18 U	0.18 U	0.46 U	0.18 U	0.18 U	0.46 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.46 U	0.46 U	0.18 U	0.46 U	1.8 U	0.957	0.1 J	0.46 U
HB-3B	SB (4.5-4.5)	12-Jun-02	--	--	0.078 U	0.078 U	0.078 U	0.2 U	0.2 U	0.078 U	0.078 U	0.078 U	0.2 U	0.078 U	0.078 U	0.2 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.2 U	0.2 U	0.078 U	0.2 U	0.78 U	0.2 U	0.078 U	0.2 U
HB-3C	SB (4.5-4.5)	13-Jun-02	--	--	0.077 U	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.077 U	0.19 U
HB-3D	SB (4.5-4.5)	14-Jun-02	--	--	0.08 U	0.08 U	0.08 U	0.2 U	0.235	0.08 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.2 U	0.8 U	0.2 U	0.08 U	0.2 U
HB-4A	SB (5.33-5.33)	15-Jun-02	--	--	0.078 U	0.078 U	0.078 U	0.2 U	0.205	0.078 U	0.078 U	0.078 U	0.2 U	0.078 U	0.078 U	0.0705 J	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.2 U	0.2 U	0.078 U	0.2 U	0.78 U	0.2 U	0.078 U	0.2 U
HB-5A	SB (3-3)	16-Jun-02	--	--	0.083 U	0.083 U	0.167	0.21 U	0.21 U	0.083 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.21 U	0.21 U	0.083 U	0.21 U	0.83 U	0.21 U	0.14	0.21 U
HB-7A	SB (5-5)	17-Jun-02	--	--	0.083

ATTACHMENT A
Supplemental Data Tables

Table A-1.6b
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Semivolatile Organic Componds (SVOCs) (mg/kg)																											
			Acetophenone	1,1'-Biphenyl	Bis(2-Ethylhexyl) Phthalate	Butyl Benzyl Phthalate	Carbazole	4-Chloroaniline	Cresols, M & P	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dichlorophenol	Diethyl Phthalate	Dimethyl Phthalate	2,4-Dimethylphenol	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	4-Nitroaniline	Nitrobenzene	N-Nitrosodiphenylamine	Pentachlorophenol	Phenol	1,2,4-Trichlorobenzene	2,4,5-Trichlorophenol
IB-1	SS (0-2)	22-Apr-02	--	--	0.078 U	0.078 U	0.0639 J	0.19 U	0.19 U	0.078 U	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.078 U	0.078 U	0.619	0.078 U	0.19 U	0.19 U	0.078 U	0.19 U	0.78 U	0.19 U	0.0807	0.19 U
IB-1	SB (4-6)	22-Apr-02	--	--	0.0411 J	0.078 U	0.078 U	0.19 U	0.19 U	0.078 U	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.078 U	0.078 U	0.11	0.078 U	0.19 U	0.19 U	0.078 U	0.19 U	0.78 U	0.19 U	0.086	0.19 U
IB-2	SB (4-6)	26-Jun-02	--	--	0.219	0.078 U	0.963	0.19 U	0.19 U	0.078 U	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.19 U	0.19 U	0.078 U	0.19 U	0.78 U	0.19 U	0.0539 J	0.19 U
IB-3	SB (4-6)	27-Jun-02	--	--	0.165	0.085 U	0.316	0.21 U	0.21 U	0.14	0.147	0.278	0.21 U	0.085 U	0.085 U	0.21 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.21 U	0.21 U	0.085 U	0.21 U	0.85 U	0.21 U	1.79	0.21 U
IB-3	SB (8-10)	27-Jun-02	--	--	2.4	0.089 U	0.512	0.22 U	0.22 U	1.11	0.355	0.625	0.22 U	0.089 U	0.089 U	0.22 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.089 U	0.22 U	0.22 U	0.089 U	0.22 U	0.89 U	0.22 U	4.22	0.22 U
LB-101	SS (0-1)	23-Mar-02	0.023 U	0.017 U	0.046 U	0.027 U	0.014 U	0.022 U	0.051 U	0.025 U	0.026 U	0.025 U	0.06 U	0.015 U	0.015 U	0.091 U	0.023 U	0.031 U	0.041 U	0.041 U	0.021 U	0.024 U	0.018 U	0.025 U	0.025 U	0.015 U	0.04 U	0.044 U	0.019 U	0.054 U
LB-101	SS (1-3)	23-Mar-02	0.022 U	0.016 U	0.044 U	0.026 U	0.0382 J	0.021 U	0.049 U	0.02 U	0.021 U	0.02 U	0.057 U	0.015 U	0.015 U	0.087 U	0.022 U	0.029 U	0.04 U	0.039 U	0.02 U	0.022 U	0.017 U	0.024 U	0.024 U	0.014 U	0.038 U	0.042 U	0.015 U	0.051 U
LB-102	SS (0-3)	24-Apr-02	0.023 U	0.018 U	0.047 U	0.028 U	0.015 U	0.023 U	0.053 U	0.027 U	0.029 U	0.027 U	0.062 U	0.016 U	0.016 U	0.095 U	0.024 U	0.032 U	0.043 U	0.042 U	0.021 U	0.024 U	0.018 U	0.026 U	0.026 U	0.015 U	0.041 U	0.046 U	0.02 U	0.055 U
LB-102	SS (1-3)	24-Apr-02	0.023 U	0.018 U	0.293	0.028 U	0.015 U	0.023 U	0.052 U	0.022 U	0.024 U	0.022 U	0.061 U	0.016 U	0.016 U	0.094 U	0.023 U	0.031 U	0.043 U	0.042 U	0.021 U	0.024 U	0.018 U	0.025 U	0.026 U	0.015 U	0.041 U	0.046 U	0.017 U	0.055 U
LB-103	SS (0-1)	24-Mar-02	0.022 U	0.017 U	0.046 U	0.027 U	0.014 U	0.022 U	0.051 U	0.026 U	0.028 U	0.026 U	0.06 U	0.015 U	0.015 U	0.091 U	0.023 U	0.03 U	0.041 U	0.041 U	0.02 U	0.023 U	0.018 U	0.025 U	0.025 U	0.015 U	0.04 U	0.044 U	0.02 U	0.053 U
LB-103	SB (5-7)	24-Mar-02	0.026 U	0.02 U	0.052 U	0.031 U	0.017 U	0.025 U	0.059 U	0.033 U	0.035 U	0.033 U	0.068 U	0.018 U	0.018 U	0.1 U	0.026 U	0.0474 J	0.047 U	0.047 U	0.024 U	0.027 U	0.02 U	0.028 U	0.029 U	0.017 U	0.046 U	0.051 U	0.025 U	0.061 U
LHP-101	SS (0-1)	25-Mar-02	0.12 U	0.088 U	0.23 UJ	0.14 U	0.074 U	0.11 U	0.26 U	0.03 U	0.032 U	0.03 U	0.31 U	0.079 U	0.079 U	0.47 U	0.12 U	0.16 UJ	0.21 U	0.21 U	0.11 U	0.12 U	0.092 U	0.13 U	0.13 U	0.076 U	0.21 U	0.23 U	0.023 U	0.28 U
LHP-101	SB (5-8)	25-Mar-02	0.083 U	0.063 U	0.17 U	0.099 U	0.053 U	2.19	0.19 U	0.648	0.0573 J	0.0571 J	0.22 U	0.056 U	0.056 U	0.34 U	0.084 U	0.11 U	0.15 U	0.15 U	0.076 U	0.087 U	0.066 U	0.091 U	0.092 U	0.054 U	0.15 U	1.05	0.041 U	0.2 U
LHP-102	SS (0-1)	26-Mar-02	0.024 U	0.018 U	0.048 U	0.028 U	0.015 U	0.023 U	0.053 U	0.031 U	0.033 U	0.031 U	0.062 U	0.016 U	0.016 U	0.096 U	0.024 U	0.032 U	0.043 U	0.043 U	0.021 U	0.025 U	0.019 U	0.026 U	0.026 U	0.015 U	0.042 U	0.046 U	0.024 U	0.056 U
LHP-102	SB (7-9)	26-Mar-02	0.0145 U	0.0417 J	0.0295 U	0.0175 U	0.0095 U	0.352	0.033 U	0.292 J	0.052 U	0.049 U	0.0385 U	0.01 U	0.01 U	0.06 U	0.0145 U	0.02 U	0.027 U	0.0265 U	0.0135 U	0.0155 U	0.0115 U	0.016 U	0.016 U	0.0095 U	0.026 U	0.687	0.037 U	0.035 U
LHP-103	SS (0-1)	27-Mar-02	0.12 U	0.09 U	0.24 U	0.255 J	0.076 U	0.12 U	0.27 U	0.026 U	0.028 U	0.026 U	0.31 U	0.08 U	0.08 U	0.48 U	0.12 U	0.16 U	0.22 U	0.21 U	0.11 U	0.12 U	0.094 U	0.13 U	0.13 U	0.077 U	0.21 U	0.23 U	0.02 U	0.28 U
LHP-103	SS (1-3)	27-Mar-02	0.026 U	0.02 U	0.052 U	0.031 U	0.016 U	0.025 U	0.058 U	0.028 U	0.031 U	0.029 U	0.068 U	0.017 U	0.017 U	0.1 U	0.026 U	0.035 U	0.047 U	0.046 U	0.023 U	0.027 U	0.02 U	0.028 U	0.028 U	0.017 U	0.046 U	0.05 U	0.022 U	0.061 U
LHP-104	SS (0-1)	28-Mar-02	0.022 U	0.017 U	0.044 U	0.026 U	0.014 U	0.021 U	0.05 U	0.025 U	0.027 U	0.025 U	0.058 U	0.015 U	0.015 U	0.089 U	0.022 U	0.03 U	0.04 U	0.04 U	0.02 U	0.023 U	0.017 U	0.024 U	0.024 U	0.014 U	0.039 U	0.043 U	0.019 U	0.052 U
LHP-104	SB (7-9)	28-Mar-02	0.025 U	0.019 U	0.05 U	0.029 U	0.016 U	0.024 U	0.056 U	0.65	0.04 U	0.0395 J	0.065 U	0.017 U	0.017 U	0.1 U	0.025 U	0.033 U	0.045 U	0.044 U	0.022 U	0.026 U	0.02 U	0.027 U	0.027 U	0.016 U	0.044 U	0.329	0.029 U	0.059 U
LHP-105	SS (0-1)	17-Mar-02	0.11 U	0.084 U	0.36 J	0.13 U	0.07 U	0.11 U	0.25 U	0.023 U	0.025 U	0.023 U	0.29 U	0.074 U	0.075 U	0.45 U	0.11 U	0.15 U	0.2 U	0.2 U	0.1 U	0.11 U	0.087 U	0.12 U	0.12 U	0.072 U	0.19 U	0.22 U	0.018 U	0.26 U
LHP-105 DUP	SS (0-1)	17-Mar-02	0.064 U	0.049 U	3.3 J	0.077 U	0.041 U	0.063 U	0.15 U	0.022 U	0.024 U	0.023 U	0.17 U	0.044 U	0.044 U	0.26 U	0.065 U	0.087 U	0.12 U	0.12 U	0.059 U	0.067 U	0.051 U	0.07 U	0.071 U	0.042 U	0.11 U	0.13 U	0.017 U	0.15 U
LHP-105	SS (1-3)	17-Mar-02	0.022 U	0.017 U	0.045 U	0.026 U	0.014 U	0.022 U	0.05 U	0.029 U	0.031 U	0.029 U	0.058 U	0.015 U	0.015 U	0.09 U	0.022 U	0.03 U	0.041 U	0.04 U	0.02 U	0.023 U	0.018 U	0.648	0.024 U	0.014 U	0.039 U	0.043 U	0.022 U	0.053 U
LHP-106	SS (0-1)	29-Mar-02	0.11 U	0.083 U	0.322 J	0.13 UJ	0.069 U	0.11 U	0.25 U	0.022 U	0.024 U	0.022 U	0.29 U	0.073 U	0.074 U	0.44 U	0.11 U	0.15 UJ	0.2 U	0.2 U	0.099 U	0.11 U	0.086 U	0.12 U	0.12 U	0.071 U	0.19 U	0.21 U	0.017 U	0.26 U
LHP-106	SS (1-3)	29-Mar-02	0.13 U	0.1 U	0.27 U	0.16 U	0.084 U	0.13 U	0.3 U	0.032 U	0.034 U	0.032 U	0.35 U	0.089 U	0.089 U	0.53 U	0.13 U	0.18 U	0.24 U	0.24 U	0.12 U	0.14 U	0.1 U	0.14 U	0.15 U	0.086 U	0.23 U	0.26 U	0.025 U	0.31 U
LHP-107	SS (0-1)	30-Mar-02	0.023 U	0.017 U	0.046 U	0.027 U	0.014 U	0.022 U	0.051 U	0.021 U	0.023 U	0.021 U	0.06 U	0.015 U	0.015 U	0.092 U	0.023 U	0.031 U	0.042 U	0.041 U	0.021 U	0.024 U	0.018 U	0.025 U	0.025 U	0.015 U	0.04 U	0.044 U	0.016 U	0.054 U
LHP-107	SB (5-7)	30-Mar-02	0.024 U	0.018 U	0.049 U	0.029 U	0.015 U	0.024 U	0.054 U	0.026 U	0.028 U	0.026 U	0.064 U	0.016 U	0.016 U	0.098 U	0.024 U	0.033 U	0.044 U	0.043 U	0.022 U	0.025 U	0.019 U	0.026 U	0.027 U	0.016 U	0.043 U	0.047 U	0.02 U	0.057 U
LHP-108	SS (0-1)	31-Mar-02	0.024 U	0.018 U	0.421 J	0.028 UJ	0.0266 J	0.023 U	0.054 U	0.027 U	0.029 U	0.027 U	0.063 U	0.016 U	0.016 U	0.096 U	0.024 U	--	0.043 U	0.043 U	0.022 U	0.025 U	0.019 U	0.026 U	0.026 U	0.015 U	0.042 U	0.046 U	0.021 U	0.056 U
LHP-108	SB (3-7)	31-Mar-02	0.025 U	0.019 U	0.052 U	0.031 U	0.016 U	0.025 U	0.058 U	0.028 U	0.03 U	0.028 U	0.067 U	0.017 U	0.017 U	0.1 U	0.026 U	0.035 U	0.047 U	0.046 U	0.023 U	0.027 U	0.02 U	0.028 U	0.028 U	0.017 U	0.045 U	0.05 U	0.021 U	0.061 U
LHP-109	SS (0-1)	1-Apr-02	0.024 U	0.018 U	2.22 J	0.029 UJ	0.015 U	0.024 U	0.054 U	0.028 U	0.03 U	0.028 U	0.064 U	0.016 U	0.016 U	0.098 U	0.024 U	--	0.044 U	0.043 U	0.022 U	0.025 U	0.019 U	0.026 U	0.027 U	0.016 U	0.043 U	0.047 U	0.021 U	0.057 U
LHP-109	SB (7-9)	1-Apr-02	0.029 U	0.0231 J	0.059 U	0.035 U	0.0249 J	0.028 U	0.065 U	0.044 U	0.047 U	0.044 U	0.076 U	0.02 U	0.02 U	0.12 U	0.029 U	0.039 U	0.053 U	0.052 U	0.026 U	0.03 U	0.023 U	0.032 U	0.032 U	0.019 U	0.051 U	0.057 U	0.034 U	0.069 U
LHP-110	SS (0-1)	2-Apr-02	0.24 U	0.18 U	0.49 UJ	0.29 U	0.15 U	0.24 U	0.54 U	0.047 U	0.051 U	0.048 U	0.63 U	0.16 U	0.16 U	0.97 U	0.24 U	0.32 UJ	0.44 U	0.43 U	0.22 U	0.25 U	0.19 U	0.26 U	0.26 U	0.16 U	0.43 U	0.47 U	0.036 U	0.57 U
LHP-111	SS (0-1)	3-Apr-02	0.023 U	0.018 U	0.048 U	0.028 U	0.028 J	0.023 U	0.053 U	0.022 U	0.024 U	0.023 U	0.062 U	0.016 U	0.016 U	0.095 U	0.024 U	0.032 U	0.043 U	0.042 U	0.021 U	0.025 U	0.019 U	0.026 U	0.026 U	0.015 U	0.042 U	0.046 U	0.017 U	0.056 U
LHP-112	SS (0-1)	4-Apr-02	0.024 U	0.018 U	0.048 UJ	0.028 UJ	0.173	0.023 U	0.054 U	0.023 U	0.025 U	0.024 U	0.063 U	0.016 U	0.016 U	0.096 U	0.024 U	0.032 UJ	0.044 U	0.043 U	0.022 U	0.025 U	0.019 U	0.026 U	0.026 U	0.016 U	0.042 U	0.047 U	0.018 U	0.057 U
LHP-113	SS (0-1)	5-Apr-02	0.022 U	0.017 U	0.183	0.027 U	0.0158 J	0.022 U	0.05 U	0.302	0.0368 J	0.0872 J	0.059 U	0.015 U	0.015 U	0.09 U	0.022 U	0.03 U	0.041 U	0.04 U	0.0333 J	0.023 U	0.018 U	0.024 U	0.025 U	0.015 U	0.039 U	0.044 U	0.32	0.053 U
LHP-114	SS (0-1)	6-Apr-02	0.023 U	0.018 U	0.0894	0.028 U	0.015 U	0.023 U	0.052 U	0.022 U	0.023 U	0.022 U	0.061 U	0.016 U	0.016 U	0.093 U	0.023 U	0.031 U	0.042 U	0.041 U	0.021 U	0.024 U	0.018 U	0.025 U	0.025 U	0.015 U	0.041 U	0.045 U	0.017 U	0.055 U
LHP-115	SS (0-1)	7-Apr-02	0.022 U	0.017 U	0.044 U	0.026 U	0.014 U	0.022 U	0.05 U	0.0912 J	0.023 U	0.0224 J	0.058 U	0.015 U	0.015 U	0.089 U	0.022 U	0.03 U	0.04 U	0.04 U	0.02 U	0.023 U	0.017 U	0.024 U	0.024 U	0.014 U	0.039 U	0.043 U	0.0901 J	0.052 U
LHP-116	SS (0-1)	8-Apr-02	0.024 U	0.018 U	0.048 U	0.028 U	0.015 U	0.023 U	0.053 U	0.024 U	0.025 U	0.024 U	0.062 U	0.016 U	0.016 U	0.096 U	0.024 U	0.032 U	0.043 U	0.043 U	0.022 U	0.025 U	0.019 U	0.026 U	0.026 U	0.015 U	0.042 U	0.046 U	0.018 U	0.056 U
LHP-117	SS (0-1)	9-Apr-02	0.024 U	0.019 U	0.0554 J	0.029 U	0.016 U	0.024 U	0.055 U	0.025 U	0.027 U	0.025 U	0.064 U	0.016 U	0.017 U	0.099 U	0.025 U	0.033 U	0.045 U	0.044 U	0.022 U	0.025 U	0.019 U	0.027 U	0.027 U	0.016 U	0.043 U	0.048 U	0.019 U	0.058 U
LHP-118	SS (0-1)	10-Apr-02	0.12 U	0.095 U	0.25 U	0.15 U	0.079 U	0.12 U	0.28 U	0.032 U	0.034 U	0.032 U	0.33 U	0.084 U	0.084 U	0.5 U	0.13 U	0.17 U	0.23 U	0.22 U	0.11 U	0.13 U	0.098 U	0.14 U	0.14 U	0.081 U	0.22 U	0.24 U	0.025 U	0.3 U
LHP-119	SS (0-1)	11-Apr-02	0.024 U	0.019 U	0.049 U	0.029 U	0.016 U	0.024 U	0.055 U	0.031 U	0.033 U	0.031 U	0.064 U	0.016 U	0.016 U	0.098 U	0.024 U	0.033 U	0.045 U	0.044 U	0.022 U	0.025 U	0.019 U	0.027 U	0.027 U	0.016 U	0.043 U	0.048 U	0.024 U	0.058 U
LHP-120	SS (0-1)	12-Apr-02	0.027 U	0.021 U	0.0867	0.032 U	0.017 U	0.027 U	0.061 U	0.042 U	0.045 U	0.042 U	0.072 U	0.018 U	0.018 U	0.11 U	0.027 U	0.037 U	0.05 U	0.049 U	0.025 U	0.028 U	0.021 U	0.03 U	0.03 U	0.018 U	0.048 U	0.053 U	0.032 U	0.064 U
LHP-121	SS (0-1)	13-Apr-02	0.024 U	0.018 U	0.048 U	0.028 U	0.015 U	0.023 U	0.054 U	0.031 U	0.033 U	0.031 U	0.063 U	0.016 U	0.016 U	0.096 U	0.024 U	0.032 U	0.044 U	0.043 U	0.022 U	0.025 U	0.019 U	0.026 U	0.026 U	0.016 U	0.042 U	0.047 U	0.024 U	0.057 U
LHP-122	SS (0-1)	14-Apr-02	0.023 U	0.017 U	0.306 J	0.027 UJ	0.014 U	0.022 U	0.051 U	0.025 U	0.026 U	0.025 U	0.06 U	0.015 U	0.015 U	0.091 U	0.023 U	--	0.041 U	0.041 U	0.021 U	0.024 U	0.018 U	0.025 U	0.025 U	0.015 U	0.04 U	0.044 U	0.019 U	0.054 U
LHP-123	SS (0-1)	15-Apr-02	0.024 U	0.018 U	0.264 J	0.0627 J	0.015 U	0.024 U	0.055 U	0.027 U	0.029 U	0.027 U	0.064 U	0.016 U	0.016 U	0.098 U	2.02	0.033 UJ	0.044 U	0.043 U	0.022 U	0.025 U	0.019 U	0.026 U	0.027 U	0.016 U	0.043 U	0.047 U	0.021 U	0.057 U
LHP-124	SS (0.5-2)	19-Sep-01	0.024 U	0.019 U	0.493	0.109	0.0391 J	0.024 U	0.055 U	0.035 U	0.038 U	0.036 U	0.065 U	0.017 U	0.017 U	0.099 U	0.025 U	0.033 U	0.045 U	0.044 U	0.022 U	0.026 U	0.019 U	0.027 U	0.027 U	0.016 U	0.043 U	0.048 U	0.027 U	0.058 U
LHP-124	SB (2-4)	19-Sep-01	0.025 U	0.019 U	0.274	0.03 U	0.016 U	0.024 U	0.056 U	0.025 U	0.027 U	0.025 U	0.065 U	0.017 U	0.017 U	0.1 U	0.025 U	0.033 U	0.045 U	0.045 U	0.114	0.026 U	0.02 U	0.027 U	0.027 U	0.016 U	0.044 U	0.048 U	0.019 U	0.059 U
LHP-125	SS (0.5-2)	20-Sep-01	0.024 U	0.018 U	0.341	0.028 U	0.0364 J	0.023 U	0.054 U	0.028 U	0.03 U	0.028 U	0.063 U	0.016 U	0.016 U	0.096 U	0.024 U	0.032 U	0.044 U	0.043 U	0.0348 J	0.025 U	0.019 U	0.026 U	0.026 U	0.016 U	0.042 U	0.047 U	0.022 U	0.056 U
LHP-125	SB (4-6)	20-Sep-01	0.023 U	0.018 U	0.157	0.028 U	0.015 U	0.023 U	0.053 U	0.029 U	0.031 U	0.03 U	0.062 U	0.016 U	0.016 U	0.094 U	0.023 U	0.032 U	0.043 U	0.042 U	0.195	0.024 U	0.018 U	0.025 U	0.026 U	0.015 U	0.041 U	0.046 U	0.023 U	0.055 U
LHP-126	SB (2-4)	7-Jul-02	0.023 U	0.018 U	0.135 J	0.028 UJ	0.015 U	0.023 U	0.053 U	0.028 U	0.03 U	0.028 U	0.062 U	0.016 U	0.016 U	0.094 U	0.023 U	0.031 UJ	0.043 U	0.042 U	0.136	0.024 U	0.018 U	0.025 U	0.026 U	0.015 U	0.041 U	0.046 U	0.022 U	0.055 U
LHP-126	SB (8-10)	7-Jul-02	0.026 U	0.02 U	0.493 J	0.031 UJ	0.017 U	0.025 U	0.059 U	0.041 U	0.044 U	0.042 U	0.068 U	0.018 U	0.018 U	0.1 U	0.026 U	0.035 UJ	0.047 U	0.047 U	0.0564 J	0.027 U	0.02 U	0.028 U	0.029 U	0.017 U	0.046 U	0.051 U	0.032 U	0.061 U
LHP-127	SS (0-1)	16-Apr-02	0.022 U	0.017 U	0.045 UJ	0.027 UJ	0.0598 J	0.022 U	0.051 U	0.032 U	0.034 U	0.032 U	0.059 U	0.015 U	0.015 U	0.091 U	0.022 U	--	0.041 U	0.04 U	0.02 U	0.023 U	0.018 U	0.024 U	0.025 U	0.015 U	0.04 U	0.044 U	0.025 U	0.053 U
LHP-127	SB (3-5)	16-Apr-02	0.022 U	0.017 U	0.045 U	0.027 U	0.014 U	0.022 U	0.05 U	0.025 U	0.026 U	0.025 U	0.059 U	0.015 U	0.015 U	0.09 U	0.022 U	0.03 U	0.041 U	0.04 U	0.02 U	0.023 U	0.018 U	0.024 U	0.024 U	0.014 U	0.039 U	0.044 U	0.019 U	0.053 U
LHP-128	SS (0-1)	19-Mar-02	0.022 U	0.017 U	0.227	0.026 U	0.014 U	0.021 U	0.049 U	0.021 U	0.022 U	0.021 U	0.058 U	0.015 U	0.015 U	0.088 U	0.022 U	0.029 U	0.04 U	0.039 U	0.02 U	0.023 U	0.017 U	0.024 U	0.024 U	0.014 U	0.039 U	0.043 U	0.016 U	0.052 U
LHP-128 DUP	SS (0-1)	19-Mar-02	0.022 U	0.017 U	0.215	0.026 U	0.014 U	0.021 U	0.049 U	0.021 U	0.023 U	0.021 U	0.057 U	0.015 U	0.015 U	0.088 U	0.022 U	0.041 J	0.04 U	0.039 U	0.02 U	0.023 U	0.017 U	0.024 U	0.024 U	0.014 U	0.038 U	0.043 U	0.016 U	0.051 U
LP-1	SS (0.0-0.5)	8-Jan-02	--	--	0.0429 J	0.075 U	0.075 U	0.19 U	0.19 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.19 U	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	0.075 U	0.19 U
LP-10	SS (0.0-0.5)	21-Sep-01	--	--	0.374	0.076 U	0.076 U	0.19 U	0.19 U	0.076 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	3.35	0.98	0.262	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.0502 J	0.19 U
LP-10	SS (0.5-2)	21-Sep-01	--	--	0.204	0.084 U	0.084 U	0.21 U	0.21 U	0.084 U	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.084 U	0.084 U	10.9	0.12	0.131 J	0.21 U	0.42 U	0.21 U	0.84 U	0.21 U	0.084 U	0.21 U
LP-11	SS (0.0-0.5)	10-Jan-02	--	--	0.133	0.084 U	0.084 U	0.21 U	0.21 U	0.084 U	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.084 U	0.084 U	0.852	0.119	0.0653 J	0.21 U	0.084 U	0.21 U	0.84 U	0.21 U	0.084 U	0.21 U
LP-12	SS (0.0-0.5)	11-Jan-02	--	--	0.0565 J	0.0549 J	0.074 U	0.18 U	0.18 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U	0.074 U	0.206	0.074 U	0.18 U	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.074 U	0.18 U
LP-12	SB (4-6)	11-Jan-02	--	--	0.0428 J	0.073 U	0.073 U	0.18 U	0.18 U	0.073 U	0.073 U	0.073 U	0.18 U	0.073 U	0.073 U	0.18 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.18 U	0.18 U	0.073 U	0.18 U	0.73 U	0.18 U	0.073 U	0.18 U
LP-13	SS (0.0-0.5)	12-Jan-02	--	--	0.124	0.084 U	0.0275 J	0.21 U	0.21 U	0.0233 J	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.084 U	0.084 U	0.608	0.614	0.156 J	0.21 U	0.084 U	0.21 U	0.154 J	0.21 U	0.0284 J	0.21 U
LP-14	SS (0.0-0.5)	22-Sep-01	--	--	0.37 U	0.37 U	0.37 U	0.92 U	0.92 U	0.37 U	0.37 U	0.37 U	0.92 U	0.37 U	0.37 U	0.92 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.92 U	0.92 U	0.37 U	0.92 U	3.7 U	0.92 U	0.37 U	0.92 U
LP-14	SS (0.5-2)	22-Sep-01	--	--	0.421	0.071 U	0.071 U	0.18 U	0.18 U	0.0378 J	0.071 U	0.071 U	0.18 U	0.071 U	0.071 U	0.18 U	0.071 U	0.071 U	0.071 U	0.071 U	0.306	0.0998	0.18 U	0.18 U	0.071 U	0.18 U	0.71 U	0.18 U	0.0607 J	0.18 U
LP-15	SS (0.0-0.5)	14-Jan-02	--	--	0.0979	0.076 U	0.021 J	0.19 U	0.19 U	0.076 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	0.257	0.0256 J	0.0672 J	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.076 U	0.19 U
LP-16	SS (0.0-0.5)	23-Sep-01	--	--	0.174	0.0868	0.077 U	0.19 U	0.19 U	0.077 U	0.077 U	0.077 U	0.19 U	0.077 U	0.113	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.545	0.0762 J	0.135 J	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.077 U	0.19 U
LP-16	SS (0.5-2)	23-Sep-01	--	--	0.36 U	0.36 U	0.36 U	0.91 U	0.91 U	0.36 U	0.36 U	0.36 U	0.91 U	0.36 U	0.36 U	0.91 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.91 U	0.91 U	0.36 U	0.91 U	3.6 U	0.91 U	0.36 U	0.91 U
LP-2	SS (0.0-0.5)	24-Sep-01	--	--	0.142	0.075 U	0.075 U	0.19 U	0.19 U	0.0394 J	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 UJ	0.075 U	0.075 U	1.22	1.38	0.332	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	0.144	0.19 U
LP-2	SS (0.5-2)	24-Sep-01	--	--	0.93	0.076 U	0.076 U	0.19 U	0.19 U	0.54	0.123	0.203	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	10.3	5.08	0.0426 J	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	2.36	0.19 U
LP-3	SS (0.0-0.5)	17-Jan-02	--	--	0.201	0.071 U	0.071 U	0.18 U	0.18 U	0.071 U	0.071 U	0.071 U	0.18 U	0.071 U	0.071 U	0.18 U	0.071 U	0.071 U	0.071 U	0.071 U	0.214	0.071 U	0.18 U	0.18 U	0.071 U	0.18 U	0.71 U	0.18 U	0.071 U	0.18 U
LP-4	SS (0.0-0.5)	25-Sep-01	--	--	0.0566 J	0.08 U	0.08 U	0.2 U	0.2 U

ATTACHMENT A
Supplemental Data Tables

Table A-1.6b
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Semivolatile Organic Componds (SVOCs) (mg/kg)																										
			Acetophenone	1,1'-Biphenyl	Bis(2-Ethylhexyl) Phthalate	Butyl Benzyl Phthalate	Carbazole	4-Chloroaniline	Cresols, M & P	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dichlorophenol	Diethyl Phthalate	Dimethyl Phthalate	2,4-Dimethylphenol	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	4-Nitroaniline	Nitrobenzene	N-Nitrosodiphenylamine	Pentachlorophenol	Phenol	1,2,4-Trichlorobenzene	2,4,5-Trichlorophenol
PCA-1	SB (4-6)	23-Jan-02	--	--	0.0413 J	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.2 U	0.8 U	0.2 U	0.08 U	0.2 U
PCA-2	SS (0.0-0.5)	24-Jan-02	--	--	0.47	0.073 U	0.073 U	0.18 U	0.18 U	0.073 U	0.073 U	0.073 U	0.18 U	0.073 U	0.349	0.18 U	0.073 U	0.073 U	0.073 U	0.073 U	167	0.0699 J	0.18 U	0.18 U	0.073 U	0.18 U	0.73 U	0.18 U	0.073 U	0.18 U
PCA-3	SS (0.0-0.5)	25-Jan-02	--	--	0.245	0.16 U	0.16 U	0.39 U	0.39 U	0.16 U	0.16 U	0.16 U	0.39 U	0.16 U	0.14 J	0.39 U	0.16 U	0.16 U	0.16 U	0.16 U	0.0848 J	0.16 U	0.39 U	0.39 U	0.16 U	0.39 U	1.6 U	0.39 U	0.16 U	0.39 U
PCA-3	SB (4-6)	25-Jan-02	--	--	0.085 U	0.085 U	0.085 U	0.21 U	0.21 U	0.085 U	0.085 U	0.085 U	0.21 U	0.085 U	0.085 U	0.21 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.085 U	0.21 U	0.21 U	0.085 U	0.21 U	0.85 U	0.21 U	0.085 U	0.21 U
PCA-4	SS (0.0-0.5)	18-Oct-01	--	--	0.38 U	0.38 U	0.38 U	0.95 U	0.95 U	0.38 U	0.38 U	0.38 U	0.95 U	0.38 U	0.38 U	0.95 U	0.38 U	0.38 U	0.38 U	0.38 U	0.892	0.38 U	0.95 U	0.95 U	0.38 U	0.95 U	3.8 U	0.95 U	0.38 U	0.95 U
PCA-4 DUP	SS (0.0-0.5)	18-Oct-01	--	--	0.38 U	0.38 U	0.38 U	0.96 U	0.96 U	0.38 U	0.38 U	0.38 U	0.96 U	0.38 U	0.38 U	0.96 U	0.38 U	0.38 U	0.38 U	0.38 U	1.63	0.38 U	0.96 U	0.96 U	0.38 U	0.96 U	3.8 U	0.96 U	0.38 U	0.96 U
PCA-4	SB (4-6)	18-Oct-01	--	--	0.0712 J	0.083 U	0.083 U	0.21 U	0.21 U	0.083 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.21 U	0.21 U	0.083 U	0.21 U	0.83 U	0.21 U	0.083 U	0.21 U
PCA-5	SS (0.0-0.5)	26-Sep-01	--	--	0.207	0.085 U	0.0276 J	0.21 U	0.21 U	0.0237 J	0.085 U	0.085 U	0.21 U	0.085 U	0.085 U	0.21 U	0.0872	0.085 U	0.085 U	0.085 U	0.427	0.0932	0.21 U	0.21 U	0.085 U	0.21 U	0.85 U	0.21 U	0.0571 J	0.21 U
PCA-5	SS (0.5-2)	26-Sep-01	--	--	0.0704 J	0.078 U	0.078 U	0.19 U	0.19 U	0.078 U	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.078 U	0.078 U	0.063 J	0.078 U	0.13 J	0.19 U	0.078 U	0.19 U	0.78 U	0.19 U	0.078 U	0.19 U
PCA-6	SS (0.0-0.5)	27-Jan-02	--	--	2.18	0.151	0.0253 J	0.18 U	0.18 U	0.0863	0.071 U	0.071 U	0.18 U	0.071 U	0.445	0.18 U	0.106	0.071 UJ	0.071 U	0.071 U	0.724	0.0271 J	0.191	0.18 U	0.071 U	0.18 U	0.71 U	0.18 U	0.041 J	0.18 U
RR-1	SS (0.0-0.5)	28-Jan-02	--	--	0.0491 J	0.074 U	0.199	0.18 U	0.18 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U	0.074 U	0.141	0.074 U	0.18 U	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.074 U	0.18 U
RR-10	SS (0.0-0.5)	29-Jan-02	--	--	0.0495 J	0.074 U	0.0843	0.18 U	0.18 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.18 U	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.074 U	0.18 U
RR-11	SS (0.0-0.5)	20-Oct-01	--	--	0.0541 J	0.08 U	0.0404 J	0.2 U	0.2 U	0.08 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.2 U	0.8 U	0.2 U	0.08 U	0.2 U
RR-11 DUP	SS (0.0-0.5)	20-Oct-01	--	--	0.0774	0.077 U	0.0486 J	0.19 U	0.19 U	0.077 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.077 U	0.19 U
RR-12	SS (0.0-0.5)	30-Jan-02	--	--	0.132	0.078 U	0.0314 J	0.2 U	0.2 U	0.078 U	0.078 U	0.078 U	0.2 U	0.078 U	0.078 U	0.2 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.2 U	0.2 U	0.078 U	0.2 U	0.78 U	0.2 U	0.078 U	0.2 U
RR-2	SS (0.0-0.5)	31-Jan-02	--	--	0.42 U	0.42 U	0.42 U	1 U	1 U	0.42 U	0.42 U	0.42 U	1 U	0.42 U	0.42 U	1 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	1 U	1 U	0.42 U	1 U	4.2 U	1 U	0.42 U	1 U
RR-2	SB (8-10)	31-Jan-02	--	--	0.099 U	0.099 U	0.099 U	0.25 U	0.25 U	0.099 U	0.099 U	0.099 U	0.25 U	0.099 U	0.099 U	0.25 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.25 U	0.25 U	0.099 U	0.25 U	0.99 U	0.25 U	0.099 U	0.25 U
RR-3	SS (0.0-0.5)	1-Feb-02	--	--	0.153	0.072 U	0.072 U	0.18 U	0.18 U	0.072 U	0.072 U	0.072 U	0.18 U	0.072 U	0.0804	0.18 U	0.072 U	0.072 U	0.072 U	0.072 U	39.1	0.072 U	0.18 U	0.18 U	0.072 U	0.18 U	0.72 U	0.18 U	0.072 U	0.18 U
RR-4	SS (0.0-0.5)	2-Feb-02	--	--	2.78	0.08 U	0.226	0.2 U	0.2 U	0.08 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 UJ	0.08 U	0.08 U	1.02	0.08 U	0.2 U	0.2 U	0.08 U	0.2 U	0.8 U	0.2 U	0.08 U	0.2 U
RR-4	SB (6-8)	2-Feb-02	--	--	0.0991	0.077 U	0.077 U	0.19 U	0.19 U	0.077 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 U	0.077 U	0.077 U	0.456	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.077 U	0.19 U
RR-5	SS (0.0-0.5)	3-Feb-02	--	--	0.175	0.069 U	0.161	0.17 U	0.17 U	0.069 U	0.069 U	0.069 U	0.17 U	0.069 U	0.069 U	0.17 U	0.069 U	0.069 U	0.069 U	0.069 U	0.069 U	0.069 U	0.0694 J	0.17 U	0.069 U	0.17 U	0.69 U	0.17 U	0.069 U	0.17 U
RR-6	SS (0.0-0.5)	4-Feb-02	--	--	0.133	0.072 U	0.0636 J	0.18 U	0.18 U	0.072 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.072 U	0.072 U	0.0406 J	0.072 U	0.18 U	0.18 U	0.072 U	0.18 U	0.72 U	0.18 U	0.0365 J	0.18 U
RR-6	SB (8-10)	4-Feb-02	--	--	0.224	0.076 U	0.076 U	0.19 U	0.19 U	0.0309 J	0.076 U	0.0406 J	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.19 U	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.076 U	0.19 U
RR-7	SS (0.0-0.5)	5-Feb-02	--	--	0.287	0.076 U	0.076 U	0.19 U	0.19 U	0.076 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 U	0.19 U	0.076 U	0.076 UJ	0.076 U	0.076 U	0.0931	0.076 U	0.19 U	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.0305 J	0.19 U
RR-8	SS (0.0-0.5)	6-Feb-02	--	--	0.104	0.086 U	0.187	0.22 U	0.22 U	0.086 U	0.086 U	0.086 U	0.22 U	0.086 U	0.086 U	0.22 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.22 U	0.22 U	0.086 U	0.22 U	0.86 U	0.22 U	0.086 U	0.22 U
RR-8	SB (6-8)	6-Feb-02	--	--	0.14 U	0.14 U	0.14 U	0.34 U	0.34 U	6.71	0.0927 J	0.427	0.34 U	0.14 U	0.14 U	0.34 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.34 U	0.34 U	0.14 U	0.34 U	1.4 U	0.34 U	0.14 U	0.34 U
RR-9	SS (0.0-0.5)	7-Feb-02	--	--	0.23	0.073 U	0.0347 J	0.18 U	0.18 U	0.073 U	0.073 U	0.073 U	0.18 U	0.073 U	0.073 U	0.18 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.18 U	0.18 U	0.073 U	0.18 U	0.73 U	0.18 U	0.073 U	0.18 U
SILO-B1	SS (0.0-0.5)	8-Feb-02	--	--	0.524	0.077 U	0.077 U	0.19 U	0.19 U	0.077	0.0744 J	0.077 U	0.19 U	0.077 U	0.077 U	0.19 U	0.077 U	0.077 UJ	0.077 U	0.077 U	0.0879	0.077 U	0.19 U	0.19 U	0.077 U	0.19 U	0.77 U	0.19 U	0.548	0.19 U
SILO-B1	SB (6-8)	8-Feb-02	--	--	0.3 U	0.3 U	10.7	0.74 U	0.74 U	1.44	0.3 U	0.3 U	0.74 U	0.3 U	0.3 U	0.74 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.74 U	0.74 U	0.3 U	0.74 U	3 U	0.74 U	0.3 U	0.74 U
SILO-B1 DUP	SB (6-8)	8-Feb-02	--	--	1.13	0.31 U	22.9	0.76 U	0.76 U	0.31 U	0.31 U	0.31 U	0.76 U	0.31 U	0.31 U	0.76 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.76 U	0.76 U	0.31 U	0.76 U	3.1 U	0.76 U	0.31 U	0.76 U
SILO-B2	SS (0.0-0.5)	9-Feb-02	--	--	0.738	0.36 U	0.36 U	0.9 U	0.9 U	0.36 U	0.36 U	0.36 U	0.9 U	0.36 U	1.16	0.9 U	0.36 U	0.36 U	0.36 U	0.36 U	0.306 J	0.36 U	0.629 J	0.9 U	0.36 U	0.9 U	3.6 U	0.9 U	0.36 U	0.9 U
SILO-B3	SS (0.0-0.5)	10-Feb-02	--	--	0.41 U	0.41 U	0.41 U	1 U	1 U	0.41 U	0.41 U	0.41 U	1 U	0.41 U	0.41 U	1 U	0.41 U	0.41 UJ	0.41 U	0.41 U	0.41 U	0.41 U	1 U	1 U	0.41 U	1 U	4.1 U	1 U	0.284 J	1 U
SILO-B3	SB (6-8)	10-Feb-02	--	--	0.04 J	0.074 U	0.074 U	0.18 U	0.18 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.18 U	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.074 U	0.18 U
SILO-B4	SS (0.0-0.5)	11-Feb-02	--	--	0.359 J	0.42 U	0.42 U	1 U	1 U	0.42 U	0.42 U	0.42 U	1 U	0.42 U	2.87	1 U	0.42 U	0.42 UJ	0.42 U	0.42 U	0.42 U	0.42 U	1 U	1 U	0.42 U	1 U	4.2 U	1 U	0.42 U	1 U
SPR-1	SS (0.0-0.5)	12-Feb-02	--	--	0.266 J	0.38 U	0.38 U	0.96 U	0.96 U	0.38 U	0.38 U	0.38 U	0.96 U	0.38 U	0.38 U	0.96 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.96 U	0.96 U	0.38 U	0.96 U	3.8 U	0.96 U	0.38 U	0.96 U
SPR-1	SB (8-10)	12-Feb-02	--	--	0.145	0.1 U	0.1 U	0.26 U	0.26 U	0.0765 J	0.1 U	0.1 U	0.26 U	0.1 U	0.1 U	0.26 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.26 U	0.26 U	0.1 U	0.26 U	1 U	0.26 U	0.0308 J	0.26 U
SPR-2A	SS (0.0-0.5)	13-Feb-02	--	--	0.233	0.075 U	0.075 U	0.19 U	0.19 U	0.0889	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.19 U	0.062 J	0.075 U	0.075 U	0.075 U	0.302	0.075 U	0.19 U	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	0.0787	0.19 U
SPR-2A	SB (8-10)	13-Feb-02	--	--	0.088 U	0.088 U	0.088 U	0.22 U	0.22 U	0.0682 J	0.088 U	0.088 U	0.22 U	0.088 U	0.088 U	0.22 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.22 U	0.22 U	0.088 U	0.22 U	0.88 U	0.22 U	0.088 U	0.22 U
SPR-2B	SS (0.0-0.5)	14-Feb-02	--	--	2.12	0.072 U	0.072 U	0.18 U	0.18 U	0.072 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.072 U	0.072 U	0.436	0.072 U	0.18 U	0.18 U	0.072 U	0.18 U	0.72 U	0.18 U	0.072 U	0.18 U
SPR-3	SS (0.0-0.5)	15-Feb-02	--	--	0.734	0.072 U	0.072 U	0.18 U	0.18 U	0.072 U	0.072 U	0.072 U	0.18 U	0.072 U	0.833	0.18 U	0.072 U	0.072 U	0.072 U	0.072 U	0.0835	0.072 U	0.18 U	0.18 U	0.072 U	0.18 U	0.72 U	0.18 U	0.0249 J	0.18 U
SPR-3	SB (4-6)	15-Feb-02	--	--	0.0584 J	0.086 U	0.086 U	0.21 U	0.21 U	0.086 U	0.086 U	0.086 U	0.21 U	0.086 U	0.086 U	0.21 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.21 U	0.21 U	0.086 U	0.21 U	0.86 U	0.21 U	0.0474 J	0.21 U
SPR-4A	SS (0.0-0.5)	16-Feb-02	--	--	1.14	0.081 U	0.0421 J	0.2 U	0.2 U	0.081 U	0.081 U	0.081 U	0.2 U	0.081 U	0.081 U	0.2 U	0.081 U	0.081 U	0.081 U	0.081 U	0.307	0.081 U	0.2 U	0.2 U	0.081 U	0.2 U	0.81 U	0.2 U	0.081 U	0.2 U
SPR-4A	SB (8-10)	16-Feb-02	--	--	0.11 U	0.11 U	0.11 U	0.28 U	0.28 U	0.11 U	0.11 U	0.11 U	0.28 U	0.11 U	0.11 U	0.28 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.28 U	0.28 U	0.11 U	0.28 U	1.1 U	0.28 U	0.11 U	0.28 U
SPR-4B	SS (0.0-0.5)	17-Feb-02	--	--	0.0572 J	0.08 U	0.08 U	0.2 U	0.2 U	0.0527 J	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.2 U	0.8 U	0.2 U	0.08 U	0.2 U
SPR-4B	SB (4-6)	17-Feb-02	--	--	0.155	0.08 U	0.08 U	1.48	0.2 U	0.084	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.2 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.2 U	0.2 U	0.08 U	0.2 U	0.8 U	0.2 U	0.0233 J	0.2 U
SPR-4C	SS (0.0-0.5)	18-Feb-02	--	--	0.625	0.37 U	0.37 U	0.92 U	0.92 U	0.37 U	0.37 U	0.37 U	0.92 U	0.37 U	0.37 U	0.92 U	0.37 U	0.37 U	0.37 U	0.37 U	1.11	0.37 U	0.507 J	0.92 U	0.37 U	0.92 U	3.7 U	0.92 U	0.37 U	0.92 U
SPR-4C	SB (4-6)	18-Feb-02	--	--	0.0619 J	0.086 U	0.086 U	0.602	0.22 U	0.212	0.102	0.366	0.22 U	0.086 U	0.086 U	0.22 U	0.086 U	0.086 U	0.086 U	0.086 U	0.163	0.086 U	0.22 U	0.22 U	0.086 U	0.22 U	0.86 U	0.22 U	2.37	0.22 U
SPR-5	SS (0.0-0.5)	19-Feb-02	--	--	2.26	2.1 U	1.29 J	5.2 U	5.2 U	2.1 U	2.1 U	2.1 U	5.2 U	2.1 U	2.1 U	5.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	5.2 U	5.2 U	2.1 U	5.2 U	21 U	5.2 U	2.1 U	5.2 U
SPR-5	SB (2-4)	19-Feb-02	--	--	0.191	0.086 U	0.086 U	0.22 U	0.22 U	0.0822 J	0.0718 J	0.0976	0.22 U	0.086 U	0.086 U	0.22 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.22 U	0.22 U	0.086 U	0.22 U	0.86 U	0.22 U	0.106	0.22 U
SPR-6	SS (0.0-0.5)	27-Sep-01	--	--	0.236	0.068 U	0.068 U	0.17 U	0.17 U	0.068 U	0.068 U	0.068 U	0.17 U	0.068 U	0.068 U	0.17 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U	0.17 U	0.17 U	0.068 U	0.17 U	0.68 U	0.17 U	0.068 U	0.17 U
SPR-6	SS (0.5-2)	27-Sep-01	--	--	0.841	0.075 U	0.107	0.19 U	0.19 U	0.0614 J	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.19 U	0.075 U	0.075 U	0.075 U	0.075 U	0.0542 J	0.075 U	0.19 U	0.19 U	0.075 U	0.19 U	0.75 U	0.19 U	0.0957	0.19 U
SR-1	SS (0.0-0.5)	21-Feb-02	--	--	2.77	0.11	0.071 U	0.18 U	0.18 U	0.071 U	0.071 U	0.071 U	0.18 U	0.071 U	0.448	0.18 U	0.0561 J	0.071 U	0.071 U	0.071 U	0.246	0.071 U	0.206	0.18 U	0.071 U	0.18 U	0.71 U	0.18 U	0.071 U	0.18 U
SR-2	SS (0.0-0.5)	22-Feb-02	--	--	0.731	0.956	0.068 U	0.17 U	0.17 U	0.068 U	0.068 U	0.068 U	0.17 U	0.068 U	1.47	0.17 U	0.203	0.068 U	0.068 U	0.068 U	0.437	0.068 U	0.17 U	0.17 U	0.068 U	0.17 U	0.68 U	0.17 U	0.068 U	0.17 U
ST-1	SS (0.0-0.5)	23-Feb-02	--	--	1.38	0.4 U	0.4 U	1 U	1 U	0.4 U	0.4 U	0.4 U	1 U	0.4 U	0.4 U	1 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	1 U	1 U	0.4 U	1 U	4 U	1 U	0.4 U	1 U
ST-2	SS (0.0-0.5)	24-Feb-02	--	--	0.4 U	0.4 U	0.4 U	1 U	1 U	0.4 U	0.4 U	0.4 U	1 U	0.4 U	0.4 U	1 U	0.4 U	0.4 U	0.4 U	0.4 U	1.29	0.4 U	1 U	1 U	0.4 U	1 U	4 U	1 U	0.4 U	1 U
ST-3	SS (0.0-0.5)	25-Feb-02	--	--	0.0528 J	0.079 U	0.079 U	0.2 U	0.2 U	0.079 U	0.079 U	0.079 U	0.2 U	0.079 U	0.079 U	0.2 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.2 U	0.2 U	0.079 U	0.2 U	0.79 U	0.2 U	0.079 U	0.2 U
ST-3	SB (4-6)	25-Feb-02	--	--	0.1 U	0.1 U	0.0441 J	0.26 U	0.26 U	0.1 U	0.1 U	0.1 U	0.26 U	0.1 U	0.1 U	0.26 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.26 U	0.26 U	0.1 U	0.26 U	1 U	0.26 U	0.0311 J	0.26 U
TES-1	SS (0-1)	17-Apr-02	--	--	0.958	0.15 U	0.078 U	0.12 U	0.27 U	0.085 U	0.1 U	0.08 U	0.32 U	0.082 U	0.082 U	0.49 U	0.12 U	0.16 U	0.22 U	0.22 U	0.11 U	0.13 U	0.096 U	0.13 U	0.13 U	0.079 U	0.22 U	0.24 U	0.12 U	0.29 U
TES-2	SS (0-1)	18-Apr-02	0.26 U	0.2 U	0.52 UJ	0.31 U	0.17 U	0.25 U	0.59 U	0.037 U	0.04 U	0.037 U	0.68 U	0.18 U	0.18 U	1 U	0.26 U	0.35 UJ	0.48 U	0.47 U	0.331 J	0.27 U	0.21 U	0.28 U	0.29 U	0.17 U	0.46 U	0.51 U	0.028 U	0.62 U
TES-3	SS (0-1)	19-Apr-02	0.146 J	0.099 U	1.11	0.15 U	0.083 U	0.13 U	0.29 U	0.07 J	0.034 U	0.032 U	0.34 U	0.088 U	4.34	0.52 U	0.13 U	0.18 U	0.24 U	0.23 U	0.222 J	0.14 U	0.24 J	0.14 U	0.14 U	0.084 U	0.23 U	0.25 U	0.0974 J	0.31 U
TES-4	SS (0-1)	20-Apr-02	--	--	0.047 U	0.028 U	0.0829	0.023 U	0.053 U	0.016 U	0.02 U	0.015 U	0.062 U	0.016 U	0.016 U	0.094 U	0.023 U	0.031 U	0.043 U	0.042 U	0.021 U	0.024 U	0.018 U	0.025 U	0.026 U	0.015 U	0.041 U	0.046 U	0.023 U	0.055 U
TLN-1	SS (0.0-0.5)	28-Sep-01	--	--	0.354	0.083 U	0.083 U	0.21 U	0.21 U	0.0615 J	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.21 U	0.083 U	0.083 U	0.083 U	0.083 U	121	0.083 U	0.21 U	0.21 U	0.083 U	0.21 U	0.83 U	0.21 U	0.0528 J	0.21 U
TLN-1	SS (0.5-2)	28-Sep-01	--	--	0.249	0.084 U	0.084 U	0.21 U	0.21 U	0.084 U	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.21 U	0.084 U	0.084 U	0.084 U	0.084 U	1.09	0.084 U	0.21 U	0.21 U	0.084 U	0.21 U	0.84 U	0.21 U	0.084 U	0.21 U
TLN-2	SS (0.0-0.5)	27-Feb-02	--	--	2	0.074 U	0.074 U	0.18 U	0.18 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.18 U	0.074 U	0.074 U	0.074 U	0.074 U	0.655	0.074 U	0.18 U	0.18 U	0.074 U	0.18 U	0.74 U	0.18 U	0.074 U	0.18 U
TLN-3	SS (0.0-0.5)	28-Feb-02	--	--	1.13	0.34 U	5.62	0.86 U	0.86 U	0.34 U	0.34 U	0.34 U	0.86 U	0.34 U	0.34 U	0.86 U	0.34 U	0.34 U	0.34 U	0.34 U	1.45	0.34 U	0.86 U	0.86 U	0.34 U	0.86 U	3.4 U	0.86 U	0.34 U	0.86 U
TLN-3	SB (2-4)	28-Feb-02	--	--	0.137	0.078 U	0.0622 J	0.19 U	0.19 U	0.176	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.19 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.19 U	0.19 U	0.078 U	0.19 U	0.78 U	0.19 U	0.206	0.19 U
TLN-4	SS (0.0-0.5)	22-Oct-01	--	--	0.156	0.069 U	0.069 U	0.17 U	0.17 U	0.069 U	0.069 U	0.069 U	0.17 U	0.069 U	0.069 U	0.17 U	0.069 U	0.069 U	0.069 U	0.069 U	0.593	0.069 U	0.0816 J	0.17 U	0.069 U	0.17 U	0.69 U	0.17 U	0.069 U	0.17 U
TLN-4 DUP	SS (0.0-0.5)	22-Oct-01	--	--	0.146	0.073 U	0.073 U	0.18 U	0.18 U	0.073 U	0.073 U	0.073 U	0.18 U	0.073 U	0.0742	0.18 U	0.0623 J	0.073 U	0.073 U	0.073 U	0.867	0.073 U	0.0653 J	0.18 U	0.073 U	0.18 U	0.73 U	0.18 U	0.073 U	0.18 U
TLN-5	SS (0.0-0.5)	29-Sep-01	--	--	0.0584 J	0.072 U	0.048 J	0.18 U	0.18 U	0.072 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.072 U	0.18 U	0.18 U	0.072 U	0.18 U	0.72 U	0.18 U	0.072 U	0.18 U
TLN-5	SS (0.5-2)	29-Sep-01	--	--	0.0811	0.072 U	0.072 U	0.18 U	0.18 U	0.072 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 U	0.072 U	0.072 U	0.0829	0.072 U	0.18 U	0.18 U	0.072 U	0.18 U	0.72 U	0.18 U	0.072 U	0.18 U
TLN-5	SB (4-6)	29-Sep-01	--	--	0.0528 J	0.061 J	0.073 U	0.18 U	0.18 U	0.073 U	0.073 U	0.073 U	0.18 U	0.073 U	0.073 U	0.18 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.18 U	0.18 U	0.073 U	0.18 U	0.73 U	0.18 U	0.073 U	0.18 U
TLN-6	SS (0.0-0.5)	2

ATTACHMENT A
Supplemental Data Tables

Table A-1.6b
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Semivolatile Organic Componds (SVOCs) (mg/kg)																											
			Acetophenone	1,1'-Biphenyl	Bis(2-Ethylhexyl) Phthalate	Butyl Benzyl Phthalate	Carbazole	4-Chloroaniline	Cresols, M & P	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dichlorophenol	Diethyl Phthalate	Dimethyl Phthalate	2,4-Dimethylphenol	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	4-Nitroaniline	Nitrobenzene	N-Nitrosodiphenylamine	Pentachlorophenol	Phenol	1,2,4-Trichlorobenzene	2,4,5-Trichlorophenol
TLS-5	SS (0.0-0.5)	9-Mar-02	--	--	0.167	0.071 U	0.071 U	0.18 U	0.18 U	0.071 U	0.071 U	0.071 U	0.18 U	0.071 U	0.0804	0.18 U	0.071 U	0.071 U	0.071 U	0.071 U	2.31	0.071 U	0.0984 J	0.18 U	0.071 U	0.18 U	0.71 U	0.18 U	0.071 U	0.18 U
TLS-5	SB (8-10)	9-Mar-02	--	--	0.1 U	0.1 U	0.1 U	0.26 U	0.26 U	0.1 U	0.1 U	0.1 U	0.26 U	0.1 U	0.1 U	0.26 U	0.1 U	0.1 U	0.1 U	0.1 U	1.9	0.1 U	0.26 U	0.26 U	0.1 U	0.26 U	1 U	0.26 U	0.1 U	0.26 U
TLS-6	SS (0.0-0.5)	10-Mar-02	--	--	2.44	0.181	0.0217 J	0.22 U	0.22 U	0.0376 J	0.09 U	0.09 U	0.22 U	0.09 U	0.242	0.22 U	0.352	0.09 U	0.09 U	0.09 U	0.0408 J	0.09 U	0.0684 J	0.22 U	0.09 U	0.22 U	0.9 U	0.22 U	0.09 U	0.22 U
TLS-6	SB (3-5)	10-Mar-02	--	--	8.9 U	8.9 U	8.9 U	22 U	22 U	8.9 U	8.9 U	8.9 U	22 U	8.9 U	8.9 U	22 U	8.9 U	8.9 UJ	8.9 U	8.9 U	8.9 U	8.9 U	22 U	22 U	8.9 U	22 U	89 U	22 U	8.9 U	22 U
TLS-7	SS (0.0-0.5)	11-Mar-02	--	--	0.295	0.099 U	0.099 U	0.25 U	0.25 U	0.099 U	0.099 U	0.099 U	0.25 U	0.099 U	0.099 U	0.25 U	0.099 U	0.099 U	0.099 U	0.099 U	0.167	0.099 U	0.994	0.25 U	0.099 U	0.25 U	0.99 U	0.25 U	0.0302 J	0.25 U
TLS-8	SS (0.0-0.5)	12-Mar-02	--	--	2.19	0.103	0.076 U	0.19 U	0.19 U	0.0213 J	0.076 U	0.076 U	0.19 U	0.076 U	0.0601 J	0.19 U	0.0423 J	0.076 U	0.076 U	0.076 U	0.336	0.076 U	0.19 U	0.19 U	0.076 U	0.19 U	0.76 U	0.19 U	0.076 U	0.19 U
TLS-8	SB (6-8)	12-Mar-02	--	--	0.087 U	0.087 U	0.087 U	0.22 U	0.22 U	0.087 U	0.087 U	0.087 U	0.22 U	0.087 U	0.087 U	0.22 U	0.087 U	0.087 U	0.087 U	0.087 U	0.116	0.087 U	0.22 U	0.22 U	0.087 U	0.22 U	0.87 U	0.22 U	0.087 U	0.22 U
TLS-9	SS (0.0-0.5)	13-Mar-02	--	--	0.518	0.36 U	0.36 U	0.91 U	0.91 U	0.36 U	0.36 U	0.36 U	0.91 U	0.36 U	0.36 U	0.91 U	0.36 U	0.36 UJ	0.36 U	0.36 U	0.263 J	0.36 U	0.91 U	0.91 U	0.36 U	0.91 U	3.6 U	0.91 U	0.36 U	0.91 U
WWT-1A	SS (0.0-0.5)	14-Mar-02	--	--	0.39 UJ	0.39 UJ	0.39 U	0.98 U	0.98 U	0.39 U	0.39 U	0.39 U	0.98 U	0.39 U	0.39 U	0.98 U	0.39 U	0.39 UJ	0.39 U	0.39 U	0.915	0.39 U	0.98 U	0.98 U	0.39 U	0.98 U	3.9 U	0.98 U	0.39 U	0.98 U
WWT-2	SS (0.0-0.5)	15-Mar-02	--	--	0.22	0.072 U	0.072 U	0.18 U	0.18 U	0.328	0.0227 J	0.0474 J	0.18 U	0.072 U	0.072 U	0.18 U	0.072 U	0.072 UJ	0.072 U	0.072 U	0.27	0.0892	0.0963 J	0.18 U	0.072 U	0.18 U	0.72 U	0.18 U	0.175	0.18 U
WWT-3	SS (0.0-0.5)	16-Mar-02	--	--	4.43	0.36 U	0.36 U	0.9 U	0.9 U	0.225 J	0.36 U	0.36 U	0.9 U	0.36 U	0.36 U	0.9 U	0.36 U	0.36 U	0.36 U	0.36 U	1.03	0.36 U	0.9 U	0.9 U	0.36 U	0.9 U	3.6 U	0.9 U	0.248 J	0.9 U

Notes:

SS = Surface soil (0 to 2 ft bgs)
SB = Subsurface soil (2 to 10 ft bgs)
mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; method detection limit (MDL) presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

Table A-1.7
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location		Depth Interval (ft bgs)	Sampling Date	Volatile Organic Compounds (mg/kg)																														
				Acetic Acid, Methyl	Acetone	Benzal dehyde	Benzene	2-Butanone (MEK)	Carbon Disulfide	Carbon Tetrac hloride	Chloro benzene	Chloro form	Chloro methane	1,1-Dichloro ethane	1,2-Dichloro ethane	1,1-Dichloro ethene	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	1,2-Dichloro propane	Ethyl benzene	2-Hexanone	Isopropyl benzene	4-Methyl-2-Pentanone (MIBK)	Methyl cyclo hexane	Methylene Chloride	Styrene	Tert-Butyl Methyl Ether	Tetrachloro ethylene (PCE)	Toluene	Trichloro ethene (TCE)	1,1,1-Trichloro ethane	Vinyl Chloride	M,P-Xylene (sum of isomers)	O-Xylene	Xylenes, Mixed
12K-B1	SS	(0-0.5)	6-Sep-01	--	0.11	--	0.0014	0.0236	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0186	1.28	0.0286	0.0054 U	0.0011 U	0.0054 U	--	0.0054 U	--	0.0098 UJ	0.0054 U	--	0.0054 U	0.0022	16.9	0.0054 U	0.0367	--	--	0.0011 U
12K-B1	SS	(0.5-2)	6-Sep-01	--	0.105	--	0.0013	0.0217	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0097	6.54	0.0124	0.0048 U	0.00095 U	0.0048 U	--	0.0048 U	--	0.0048 UJ	0.0048 U	--	0.0048 U	0.0018	35.3	0.0048 U	0.0137	--	--	0.00095 U
12K-B2	SS	(0-0.5)	7-Sep-01	--	0.0604	--	0.001 U	0.005 U	0.0045 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0121	0.107	0.0304	0.005 U	0.001 U	0.005 U	--	0.005 U	--	0.005 UJ	0.005 U	--	0.005 U	0.001 U	124	0.005 U	0.005 U	--	--	0.001 U
12K-B2	SS	(0.5-2)	7-Sep-01	--	0.027	--	0.00092 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0046 U	0.0337	0.0046 U	0.0046 U	0.00092 U	0.0046 U	--	0.0046 U	--	0.0047 UJ	0.0046 U	--	0.0046 U	0.00092 U	0.522	0.0046 U	0.0046 U	--	--	0.00092 U
150K-1	SS	(0-0.5)	8-Sep-01	--	0.0658	--	0.0009	0.0045 U	0.0031 J	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0045 U	0.0012	0.0045 U	--	0.0045 U	--	0.0045 UJ	0.0045 U	--	0.0045 U	0.00094	0.0045 U	0.0045 U	0.0045 U	--	--	0.0047
150K-1	SS	(0.5-2)	8-Sep-01	--	0.0411	--	0.00083 U	0.0042 U	0.0057	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.0042 U	0.00083 U	0.0042 U	--	0.0042 U	--	0.0046 UJ	0.0042 U	--	0.0042 U	0.00083 U	0.0042 U	0.0042 U	0.0042 U	--	--	0.0017 U
230-B1	SS	(0-0.5)	27-Oct-01	--	2.57 UJ	--	0.0011 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0011 J	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0011 U	0.0054 U	--	0.0054 U	--	0.0054 UJ	0.0054 U	--	0.0054 U	0.0011 U	0.0054 U	0.0054 U	0.0054 U	--	--	0.0022 U
230-B10	SS	(1.5-2)	28-Oct-01	--	0.0841	--	0.0013 U	0.0065 U	0.0065 UJ	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0013 U	0.0065 U	--	0.0065 U	--	0.011 UJ	0.0065 U	--	0.0065 U	0.0013 U	0.0065 U	0.0065 U	0.0065 U	--	--	0.0013 U
230-B10	SS	(0-0.5)	28-Oct-01	--	2.03	--	0.0106 J	0.031 U	0.0371	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.031 U	0.0257 J	0.031 U	--	0.031 U	--	0.031 J	0.031 U	--	0.031 U	0.0148 J	0.031 U	0.031 U	0.031 U	--	--	0.138
230-B11	SS	(1.5-2)	29-Oct-01	--	0.0341	--	0.0027 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	--	0.0066 U	--	0.0066 UJ	0.0066 U	--	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	--	--	0.0066 U
230-B11	SS	(0-0.5)	29-Oct-01	--	0.0375	--	0.0012 J	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0896	0.0054 U	0.0054 U	0.0014 J	0.0054 U	--	0.0054 U	--	0.0054 UJ	0.0054 U	--	0.0054 U	0.0016 J	--	0.0054 U	0.0054 U	--	--	0.0077
230-B2	SS	(1.5-2)	30-Oct-01	--	0.0612	--	0.0136	0.0044 U	0.0087	0.0044 U	0.0162	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.0044 U	0.00088 U	0.0044 U	--	0.0044 U	--	0.0046 UJ	0.0044 U	--	0.0044 U	0.00088 U	0.0044 U	0.0044 U	0.0044 U	--	--	0.00088 U
230-B2	SS	(0-0.5)	30-Oct-01	--	0.0621	--	0.0304	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0113	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	--	0.0054 U	--	0.0059 UJ	0.0054 U	--	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	--	--	0.0054 U
230-B3	SS	(1.5-2)	31-Oct-01	--	0.0338	--	0.0245	0.0048 U	0.0116	0.0048 U	0.0051	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	--	0.0048 U	--	0.0048 UJ	0.0048 U	--	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	--	--	0.0048 U
230-B3	SS	(0-0.5)	31-Oct-01	--	0.0912	--	0.0031	0.007 U	0.0647	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	--	0.007 U	--	0.0077 UJ	0.007 U	--	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	--	--	0.007 U
230-B4	SS	(1.5-2)	1-Nov-01	--	0.0364	--	0.0012 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0012 U	0.0058 U	--	0.0058 U	--	0.0092 UJ	0.0058 U	--	0.0058 U	0.0012 U	0.0058 U	0.0058 U	0.0058 U	--	--	0.0012 U
230-B4	SS	(0-0.5)	1-Nov-01	--	0.0388	--	0.014	0.005 U	0.0073	0.005 U	0.005 U	0.005 U	0.005 U	0.0067	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0012 J	0.005 U	--	0.005 U	--	0.005 UJ	0.005 U	--	0.005 U	0.0013 J	0.005 U	0.005 U	0.005 U	--	--	0.0026 J
230-B5	SS	(1.5-2)	2-Nov-01	--	0.0343	--	0.0096	0.0061 U	0.0054 J	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0156	0.0061 U	0.0061 U	4.42	0.226	0.0061 U	0.0012 U	0.0061 U	--	0.0061 U	--	0.0061 UJ	0.0061 U	--	0.0061 U	0.0022	0.0455	0.0061 U	0.154	--	--	0.0024 U
230-B5	SS	(0-0.5)	2-Nov-01	--	0.324	--	0.0017	0.242	0.0027 J	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.004 J	0.0058 U	0.0012 U	0.0058 U	--	0.0058 U	--	0.0058 UJ	0.0058 U	--	0.0032 J	0.0021	0.0028 J	0.0058 U	0.0058 U	--	--	0.0023 U
230-B6	SS	(1.5-2)	3-Nov-01	--	0.0535	--	0.002 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	--	0.0049 U	--	0.0109 UJ	0.0049 U	--	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	--	--	0.0049 U
230-B6	SS	(0-0.5)	3-Nov-01	--	0.005 U	--	0.001 J	0.0131	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	0.005 U	--	0.0106 UJ	0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	--	0.005 U
230-B7	SS	(1.5-2)	25-Apr-02	--	0.0699	--	0.007	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	--	0.0052 U	--	0.012 UJ	0.0052 U	--	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	--	--	0.0052 U
230-B7 DUP	SS	(1.5-2)	25-Apr-02	--	0.14	--	0.0032	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	--	0.006 U	--	0.0138 UJ	0.006 U	--	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	--	--	0.006 U
230-B7	SS	(0-0.5)	25-Apr-02	--	0.0076 U	--	0.0031 U	0.0142	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	--	0.0076 U	--	0.0158 UJ	0.0076 U	--	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	--	--	0.0076 U
230-B8	SS	(1.5-2)	4-May-02	--	0.0717	--	0.0018 J	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	--	0.0064 U	--	0.0136 UJ	0.0064 U	--	0.0064 U	0.0064 U	0.0119	0.0064 U	0.0064 U	--	--	0.0064 U
230-B9	SS	(0-0.5)	4-Oct-01	--	0.0056 U	--	0.0022 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	--	0.0056 U	--	0.0056 U	0.0056 U	--	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	--	--	0.0056 U
230-B9 DUP	SS	(0-0.5)	4-Oct-01	--	0.0051 U	--	0.002 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	--	0.0051 U	--	0.0126 UJ	0.0051 U	--	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	--	--	0.0051 U
230-B9	SS	(1.5-2)	4-Oct-01	--	0.0367	--	0.0021 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	--	0.0052 U	--	0.012 UJ	0.0052 U	--	0.0052 U	0.0052 U	0.0251	0.0052 U	0.0052 U	--	--	0.0052 U
231-B1	SS	(0-0.5)	5-Nov-01	--	0.196	--	0.0012 UJ	0.0113	0.0062 U	0.0062 U	0.00088 J	0.0024 J	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0012 U	0.0062 U	--	0.0062 U	--	0.011	0.0062 U	--	0.0062 U	0.0012 UJ	0.0062 U	0.0062 U	0.0062 U	--	--	0.0025 U
231-B10	SS	(0-0.5)	6-Nov-01	--	0.117	--	0.0019 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0096 U	0.0023 J	0.0096 U	0.0096 U	0.0096 U	0.0019 U	0.0096 U	--	0.0096 U	--	0.0139 UJ	0.0096 U	--	0.0096 U	0.0019 U	0.0096 U	0.0096 U	0.0096 U	--	--	0.0038 U
231-B11	SS	(0-0.5)	7-Nov-01	--	0.0458	--	0.0012 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.0012 U	0.006 U	--	0.006 U	--	0.006 UJ	0.006 U	--	0.006 U	0.0012 U	0.006 U	0.006 U	0.006 U	--	--	0.0024 U
231-B12	SS	(0-0.5)	8-Nov-01	--	0.0625	--	0.0014 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.0014 U	0.007 U	--	0.007 U	--	0.0086	0.007 U	--	0.007 U	0.0014 U	0.007 U	0.007 U	0.007 U	--	--	0.0028 U
231-B13	SS	(0-0.5)	9-Nov-01	--	0.229	--	0.0037	0.0591	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.015	0.014 U	0.014 U	0.0028 U	0.014 U	--	0.014 U	--	0.153	0.014 U	--	0.0128 J	0.0028 U	0.0575	0.014 U	0.014 U	--	--	0.0055 U
231-B14	SS	(0-0.5)	10-Nov-01	--	0.0318	--	0.001 U	0.0052 U	0.0089	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.001 U	0.0052 U	--	0.0052 U	--	0.0052 UJ	0.0052 U	--	0.0052 U	0.001 U	0.0052 U	0.0052 U	0.0052 U	--	--	0.0021 U
231-B2	SS	(0-0.5)	9-Sep-01	--	0.0636	--	0.0202	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	0.0058 U	--	0.0129 UJ	0.0058 U	--	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	--	0.0058 U
231-B2	SS	(0.5-2)	9-Sep-01	--	0.0579	--	0.0025	0.0056 U	0.0056 U	0.0056 U	0.0175	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	--	0.0056 U	--	0.0111 UJ	0.0056 U	--	0.0056 U	0.0019 J	0.0056 U	0.0056 U	0.0056 U	--	--	0.0018 J
231-B3	SS	(0-0.5)	12-Nov-01	--	0.104	--	0.0023 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	0.0058 U	--	0.0095 UJ	0.0058 U	--	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	--	0.0058 U
231-B4	SS	(0-0.5)	13-Nov-01	--	0.0087 U	--	0.0035 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	--	0.0087 U	--	0.0087 UJ	0.0087 U	--	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	--	--	0.0087 U
231-B5	SS	(0.5-2)	10-Sep-01	--	0.023	--	0.0024	0.0054 U	0.0038 J	0.0054 U	0.0025 J	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0012 J	0.0054 U	0.0054 U	0.0011 U	0.0054 U	--	0.0054 U	--	0.0054 UJ	0.0054 U	--	0.0054 U	0.0011 U	0.004 J	0.0054 U	0.0084	--	--	0.0022 U
231-B6	SS	(0-0.5)	14-Nov-01	--	0.072	--	0.008	0.14	0.0162	0.0054 U	0.0061	0.049	0.0054 U	0.0066	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0013	0.0054 U	--	0.0054 U	--	0.0195	0.0054 U	--	0.0154	0.0046	0.005 J	0.0054 U	0.0054 U	--	--	0.0088
231-B7	SS	(0-0.5)	6-Oct-01	--	0.0057 U	--	0.0036	0.0057 U	0.0081	0.0164	0.0057 U	0.0625	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0011 U	0.0057 U	--	0.0057 U	--	0.0135 UJ	0.0057 U	--	0.0064	0.0011 U	0.0019 J	0.0057 U	0.0057 U	--	--	0.0023 U
231-B7 DUP	SS	(0-0.5)	6-Oct-01	--	0.0052 U	--	0.0019	0.0052 U	0.0052 U	0.0046 J	0.0052 U	0.0253	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.001 U	0.0052 U	--	0.0052 U	--	0.0476	0.0052 U	--	0.0034 J	0.001 U	0.0052 U	0.0052 U	0.0052 U	--	--	0.0021 U
231-B8	SS	(0-0.5)	15-Nov-01	--	0.454 J	--	0.0054 UJ	0.027 UJ	0.027 UJ	0.027 UJ	0.027 UJ	0.027 UJ	0.027 UJ	0.027 UJ	0.027 UJ	0.027 UJ	0.027 UJ	0.027 UJ	0.027 UJ	0.0054 UJ	0.027 UJ	--	0.027 UJ	--	0.0103 J	0.027 UJ	--	0.027 UJ	0.0054 UJ	0.027 UJ	0.027 UJ	0.027 UJ	--	--	0.011 UJ
231-B9	SS	(0-0.5)	11-Sep-01	--	0.008 U	--	0.0016 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.0016 U	0.008 U	--	0.008 U	--	0.008 UJ	0.008 U	--	0.008 U	0.0016 U	0.008 U	0.008 U	0.008 U	--	--	0.0032 U
231-B9	SS	(0.5-2)	11-Sep-01	--	0.198	--	0.0017 U	0.0086 U	0.0089	0.0086 U	0.0034 J	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0058 J	0.0086 U	0.0086 U	0.0017 U	0.0086 U	--	0.0086 U	--	0.0086 UJ	0.0086 U	--	0.0086 U	0.0017 U	0.0133	0.0086 U	0.0086 U	--	--	0.0034 U
240-1	SS	(0-0.5)	17-Nov-01	--	0.199 J	--	0.003	0.0052 U	0.0169	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.001 U	0.0052 U	--	0.0052 U	--	0.0052 UJ	0.0052 U	--	0.0052 U	0.001 U	0.0052 U	0.0052 U	0.0052 U	--	--	0.0021 U
5K-B1	SS	(0-0.5)	18-Nov-01	--	0.0054 U	--	0.0011 U	0.0054 U	0.0163	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0011 U	0.0054 U	--	0.0054 U	--	0.0054 UJ	0.0054 U	--	0.0054 U	0.0011 U	0.0054 U	0.0054 U	0.0054 U	--	--	0.0021 U
5K-B2	SS	(0-0.5)	19-Nov-01	--	0.0726	--	0.0014 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0014 U	0.0071 U	--	0.0071 U	--	0.0071 UJ	0.0071 U	--	0.0071 U	0.0014 U	0.0071 U	0.0071 U	0.0071 U	--	--	0.0014 U
5K-B3	SS	(0-0.5)	20-Nov-01	--	0.0571 J	--	0.0011 U	0.0057 U	0.0046 J	0.0057 U	0.0057 U	0.0018 J	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0011 U	0.0057 U	--	0.0057 U	--	0.0065 UJ	0.0057 U	--	0.0057 U	0.0011 U	0.0057 U	0.0057 U	0.0057 U	--	--	0.0023 U
5K-B4	SS	(0-0.5)	21-Nov-01	--	0.399 UJ	--	0.0013 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0013 U	0.0065 U	--	0.0065 U	--	0.0065 UJ	0.0065 U	--	0.0065 U	0.0013 U	0.0065 U	0.0065 U	0.0065 U	--	--	0.0026 U
5K-B5	SS	(0-0.5)	22-Nov-01	--	0.76	--	0.0121	0.0387	0.0053 J	0.0055 U	0.0184	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0018	0.0055 U	--	0.0055 U	--	0.0055 U	0.0055 U	--	0.0055 U	0.0027	0.0055 U	0.0055 U	0.0055 U	--	--	0.0018
AB-1	SS	(0-0.5)	23-Nov-01	--	0.021 U	--	0.0042 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.0042 U	0.021 U	--	0.021 U	--	0.021 UJ	0.021 U	--	0.021 U	0.0042 U	0.021 U	0.021 U	0.021 U	--	--	0.0042 U
AB-2	SS	(0-0.5)	12-Sep-01	--	0.0784	--	0.0015	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	--	0.005 U	--	0.005 UJ	0.005 U	--	0.0086	0.001 U	0.005 U	0.005 U	0.005 U	--	--	0.001 U
AB-2	SS	(0.5-2)	12-Sep-01	--	0.1	--	0.0019	0.0468	0.0076 U	0.0076 U	0.0076 U	0.0186	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0015 U	0.0076 U	--	0.0076 U	--	0.0076 UJ	0.0076 U	--	0.136	0.0015 U	0.0208	0.0076 U	0.0076 U	--	--	0.0015 U
ADN-1	SS	(0-0.5)	25-Nov-01	--	0.0047 U	--	0.00094 U	0.0047 U	0.0047 U	0.0047 U	0.0084	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.00094 U	0.0047 U	--	0.0047 U	--	0.0072 UJ	0.0047 U	--	0.0047 U	0.00094 U	0.0047 U	0.0047 U	0.0047 U	--	--	0.00094 U
ADN-2	SS	(0-0.5)	26-Nov-01	--	0.0048 U	--	0.00095 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.00095 U	0.0048 U	--	0.0048 U	--	0.0058 UJ	0.0048 U	--	0.0048 U	0.00095 U	0.0048 U	0.0048 U	0.0048 U	--	--	0.00095 U
ADS-1	SS	(0-0.5)	27-Nov-01	--	0.0403	--	0.003 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	--	0.0076 U	--	0.0076 UJ	0.0076 U	--	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	--	--	0.0076 U
ADS-10	SS	(0-0.5)	28-Nov-01	--	0.0442 UJ	--	0.0024 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	--	0.0059 U	--	0.0059 UJ	0.0059 U	--	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	--	--	0.0059 U
ADS-101	SS	(1-3)	21-Mar-02	0.066 U	0.13 UJ	0.042 U	0.022 U	0.13 UJ	0.026 U	0.044 U	0.02 U	0.027 U	0.021 U	0.022 U	0.025 U	0.032 U	0.031 U	0.032 U	0.026 U	0.021 U	0.063 U	0.022 U	0.093 U	0.03 U	0.032 U	0.015 U	0.026 U	0.038 U	0.025 U	0.024 U	0.028 U	0.03 U	0.041 U	0.023 U	0.023 U
ADS-101	SS	(0-1)	21-Mar-02	0.082 U	0.17 UJ	0.043 U	0.028 U	0.16 UJ	0.032 U	0.055 U	0.0274 J	0.328	0.027 U	0.028 U	0.031 U	0.04 U	0.039 U	0.04 U	0.032 U	0.026 U	0.079 U	0.027 U	0.12 U	0.037 U	0.04 U	0.019 U	0.032 U	0.048 U	0.031 U	0.03 U	0.034 U	0.037 U	0.051 U	0.029 U	0.029 U
ADS-102	SS	(0-1.5)	21-Apr-02	0.069 U	0.14 UJ	0.041 U	0.024 U	0.13 UJ	0.027 U	0.047 U	0.021 U	0.029 U	0.023 U	0.024 U	0.027 U	0.034 U	0.033 U	0.034 U	0.027 U	0.022 U	0.067 U	0.023 U	0.098 U	0.032 U	0.034 U	0.016 U	0.028 U	0.041 U	0.027 U	0.026 U	0.029 U	0.032 U	0.043 U	0.024 U	0.024 U
ADS-11	SS	(0-0.5)	29-Nov-01	--	0.044 UJ	--	0.0025 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	--	0.0062 U	--	0.0062 UJ	0.0062 U	--	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	--	--	0.0062 U
ADS-12	SS	(0-0.5)	13-Sep-01	--	0.0286 UJ

ATTACHMENT A
Supplemental Data Tables

Table A-1.7
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Volatile Organic Compounds (mg/kg)																														
			Acetic Acid, Methyl	Acetone	Benzal dehyde	Benzene	2-Butanone (MEK)	Carbon Disulfide	Carbon Tetrac hloride	Chloro benzene	Chloro form	Chloro methane	1,1-Dichloro ethane	1,2-Dichloro ethane	1,1-Dichloro ethene	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	1,2-Dichloro propane	Ethyl benzene	2-Hexanone	Isopropyl benzene	4-Methyl-2-Pentanone (MIBK)	Methyl cyclo hexane	Methylene Chloride	Styrene	Tert-Butyl Methyl Ether	Tetrachloro ethylene (PCE)	Toluene	Trichloro ethene (TCE)	1,1,1-Trichloro ethane	Vinyl Chloride	M,P-Xylene (sum of isomers)	O-Xylene	Xylenes, Mixed
DC-SS17	SS (0-0.5)	26-Dec-01	--	0.0648	--	0.0011 U	0.0055 U	0.0055 UJ	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0055 U	0.0011 U	0.0055 U	--	0.0055 U	--	0.0055 UJ	0.0055 U	--	0.0055 U	0.0011 U	0.0055 U	0.0055 U	0.0055 U	--	--	0.0022 U
DC-SS18	SS (0-0.5)	27-Dec-01	--	0.0348	--	0.0012 U	0.0058 U	0.0058 U	0.0058 U	0.0016 J	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0012 U	0.0058 U	--	0.0058 U	--	0.0065 UJ	0.0058 U	--	0.0058 U	0.0012 U	0.0058 U	0.0058 U	0.0058 U	--	--	0.0023 U
DC-SS2	SS (0-0.5)	28-Dec-01	--	0.289	--	0.001 U	0.0319	0.0052 U	0.0052 U	0.0052 U	0.0018 J	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.001 U	0.0052 U	--	0.0052 U	--	0.0052 UJ	0.0052 U	--	0.00079 J	0.001 U	0.0052 U	0.0052 U	0.0052 U	--	--	0.0021 U
DC-SS3	SS (0-0.5)	29-Dec-01	--	0.209	--	0.0012 U	0.0269	0.0059 UJ	0.0059 U	0.0059 U	0.0021 J	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0012 U	0.0059 U	--	0.0059 U	--	0.006 UJ	0.0059 U	--	0.0059 U	0.00088 J	0.00095 J	0.0059 U	0.0059 U	--	--	0.0024 U
DC-SS6	SS (0-0.5)	30-Dec-01	--	0.106	--	0.0012 J	0.0264	0.0078 UJ	0.0078 U	0.0078 U	0.0043 J	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0078 U	0.0016 U	0.0078 U	--	0.0078 U	--	0.0078 UJ	0.0078 U	--	0.0078 U	0.0013 J	0.0078 U	0.0078 U	0.0078 U	--	--	0.0031 U
DC-SS7	SS (0-0.5)	31-Dec-01	--	0.21	--	0.0013 U	0.0482	0.0064 U	0.0064 U	0.0064 U	0.001 J	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0013 U	0.0064 U	--	0.0064 U	--	0.0064 UJ	0.0064 U	--	0.0064 U	0.0013 U	0.0064 U	0.0064 U	0.0064 U	--	--	0.0026 U
DC-SS9	SS (0-0.5)	1-Jan-02	--	0.0761	--	0.0037	0.0166	0.0047 U	0.0047 U	0.0051	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.00068 J	0.0047 U	0.0047 U	0.0047 U	0.00094 U	0.0047 U	--	0.0047 U	--	0.0071 UJ	0.0047 U	--	0.0047 U	0.00094 U	0.0047 U	0.0047 U	0.0047 U	--	--	0.0019 U
DSP-1	SS (0-0.5)	2-Jan-02	--	0.107	--	0.0056	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.001 J	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0014 U	0.0072 U	--	0.0072 U	--	0.0072 UJ	0.0072 U	--	0.0072 U	0.0012 J	0.0072 U	0.0072 U	0.0072 U	--	--	0.0029 U
DSP-2	SS (0-0.5)	3-Jan-02	--	0.0497	--	0.0012 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0012 U	0.0058 U	--	0.0058 U	--	0.0069 UJ	0.0058 U	--	0.0058 U	0.0012 U	0.0058 U	0.0058 U	0.0058 U	--	--	0.0012 U
DSP-3	SS (0-0.5)	4-Jan-02	--	0.08	--	0.0011 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0011 U	0.0056 U	--	0.0056 U	--	0.0226 UJ	0.0056 U	--	0.0045 J	0.0011 U	0.0056 U	0.0056 U	0.0056 U	--	--	0.0011 U
DSP-4	SS (0-0.5)	5-Jan-02	--	0.0711	--	0.0011 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0011 U	0.0056 U	--	0.0056 U	--	0.0085 UJ	0.0056 U	--	0.0056 U	0.0011 U	0.0056 U	0.0056 U	0.0056 U	--	--	0.0011 U
ESR-1	SS (0-1)	22-Mar-02	--	0.0056 U	--	0.0011 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0011 U	0.0056 U	--	0.0056 U	--	0.006 UJ	0.0056 U	--	0.0056 U	0.0011 U	0.0056 U	0.0056 U	0.0056 U	--	--	0.0011 U
HB-102A	SS (0-0)	30-Sep-01	0.22 U	0.44 UJ	0.066 U	0.116 J	0.42 U	0.086 U	0.15 U	0.067 U	0.634 J	0.072 U	0.075 U	0.084 U	0.11 U	0.1 U	0.11 U	0.086 U	0.07 U	0.21 U	0.072 U	0.31 U	0.1 U	0.11 U	0.051 U	0.087 U	0.13 U	0.084 U	0.081 U	0.092 U	0.1 U	0.14 U	0.077 U	0.077 U
HB-102B	SS (0-0)	1-Oct-01	0.086 U	0.17 UJ	0.045 U	0.62	0.17 U	0.034 UJ	0.058 U	0.121 J	7.22	0.028 U	0.029 U	0.033 U	0.042 U	0.041 U	0.042 U	0.034 U	0.027 U	0.083 U	0.028 U	0.12 U	0.039 U	0.201 J	0.02 U	0.0705	0.05 U	0.033 U	0.032 U	0.036 U	0.039 U	0.054 U	0.03 U	0.03 U
HB-102C	SS (0-0)	2-Oct-01	0.074 U	0.15 UJ	0.042 U	0.0553	0.14 U	0.029 UJ	0.05 U	0.023 U	1.06	0.024 U	0.025 U	0.029 U	0.036 U	0.035 U	0.036 U	0.029 U	0.024 U	0.071 U	0.024 U	0.1 U	0.034 U	0.043 J	0.017 U	0.029 U	0.043 U	0.028 U	0.027 U	0.031 U	0.034 U	0.046 U	0.026 U	0.026 U
HB-105E	SS (0-0)	3-Oct-01	0.087 U	0.18 U	0.045 U	0.029 U	0.17 UJ	0.034 U	0.058 U	0.027 U	0.036 U	0.028 U	0.029 U	0.033 U	0.042 U	0.041 U	0.042 U	0.034 U	0.028 U	0.083 U	0.029 U	0.12 U	0.04 U	0.042 U	0.02 U	0.034 U	0.051 U	0.033 U	0.032 U	0.036 U	0.04 U	0.054 U	0.03 U	0.03 U
HF-B1	SS (0-0.5)	6-Jan-02	--	0.012 U	--	0.0023 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.0023 U	0.012 U	--	0.012 U	--	0.012 UJ	0.012 U	--	0.0222	0.0023 U	0.012 U	0.012 U	0.012 U	--	--	0.0046 U
HF-B2	SS (0-0.5)	14-Oct-01	--	0.0048 U	--	0.00097 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.00097 U	0.0048 U	--	0.0048 U	--	0.0049 UJ	0.0048 U	--	0.0048 U	0.00097 U	0.0048 U	0.0048 U	0.0048 U	--	--	0.00097 U
HF-B2 DUP	SS (0-0.5)	14-Oct-01	--	0.0052 U	--	0.001 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.001 U	0.0052 U	--	0.0052 U	--	0.0054 UJ	0.0052 U	--	0.0052 U	0.001 U	0.0052 U	0.0052 U	0.0052 U	--	--	0.001 U
HF-B3	SS (0-0.5)	7-Jan-02	--	1.47 UJ	--	0.0012 U	0.0255	0.0061 U	0.0061 U	0.0061 U	0.003 J	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0061 U	0.0012 U	0.0061 U	--	0.0061 U	--	0.0061 UJ	0.0061 U	--	0.0061 U	0.0012 U	0.0061 U	0.0061 U	0.0061 U	--	--	0.0024 U
IB-1	SS (0-2)	22-Apr-02	--	0.027 UJ	--	0.0046	0.012 U	0.0064	0.0059 U	0.0059 U	0.0083	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0012 U	0.0059 U	--	0.0059 U	--	0.0059 UJ	0.0059 U	--	0.0015 J	0.0012 U	0.0011 J	0.0059 U	0.0059 U	--	--	0.0024 U
LB-101	SS (1-3)	23-Mar-02	0.061 U	0.12 UJ	0.037 U	0.021 U	0.12 UJ	0.024 U	0.041 U	0.019 U	0.025 U	0.02 U	0.021 U	0.024 U	0.03 U	0.029 U	0.03 U	0.024 U	0.019 U	0.059 U	0.02 U	0.086 U	0.028 U	0.03 U	0.014 U	0.024 U	0.036 U	0.023 U	0.023 U	0.026 U	0.028 U	0.038 U	0.021 U	0.021 U
LB-101	SS (0-1)	23-Mar-02	0.076 U	0.15 UJ	0.039 U	0.026 U	0.15 UJ	0.03 U	0.051 U	0.023 U	0.031 U	0.025 U	0.026 U	0.029 U	0.037 U	0.036 U	0.037 U	0.03 U	0.024 U	0.073 U	0.025 U	0.11 U	0.035 U	0.037 U	0.018 U	0.03 U	0.044 U	0.029 U	0.028 U	0.032 U	0.035 U	0.047 U	0.027 U	0.027 U
LB-102	SS (1-3)	24-Apr-02	0.069 U	0.14 UJ	0.04 U	0.023 U	0.13 UJ	0.027 U	0.046 U	0.021 U	0.028 U	0.022 U	0.023 U	0.026 U	0.033 U	0.033 U	0.033 U	0.027 U	0.022 U	0.066 U	0.023 U	0.097 U	0.031 U	0.034 U	0.016 U	0.027 U	0.04 U	0.026 U	0.025 U	0.029 U	0.031 U	0.043 U	0.024 U	0.024 U
LB-102	SS (0-3)	24-Apr-02	0.083 U	0.17 UJ	0.041 U	0.028 U	0.16 UJ	0.032 U	0.056 U	0.025 U	0.034 U	0.027 U	0.028 U	0.032 U	0.04 U	0.039 U	0.04 U	0.032 U	0.026 U	0.08 U	0.027 U	0.12 U	0.038 U	0.04 U	0.019 U	0.033 U	0.048 U	0.032 U	0.03 U	0.035 U	0.038 U	0.051 U	0.029 U	0.029 U
LB-103	SS (0-1)	24-Mar-02	0.08 U	0.16 UJ	0.039 U	0.027 U	0.15 UJ	0.031 U	0.054 U	0.025 U	0.033 U	0.026 U	0.027 U	0.031 U	0.039 U	0.038 U	0.039 U	0.031 U	0.025 U	0.077 U	0.026 U	0.11 U	0.036 U	0.039 U	0.019 U	0.032 U	0.047 U	0.031 U	0.029 U	0.033 U	0.037 U	0.05 U	0.028 U	0.028 U
LHP-101	SS (0-1)	25-Mar-02	0.092 U	0.19 UJ	0.2 U	0.031 U	0.18 UJ	0.036 U	0.062 U	0.028 U	0.038 U	0.03 U	0.031 U	0.035 U	0.045 U	0.044 U	0.045 U	0.036 U	0.029 U	0.089 U	0.03 U	0.13 U	0.11 J	0.045 U	0.021 U	0.036 U	0.054 U	0.0425 J	0.034 U	0.039 U	0.042 U	0.0792 J	0.0398 J	0.119 J
LHP-102	SS (0-1)	26-Mar-02	0.096 U	0.19 UJ	0.041 U	0.032 U	0.19 UJ	0.037 U	0.064 U	0.029 U	0.039 U	0.031 U	0.032 U	0.037 U	0.047 U	0.045 U	0.046 U	0.038 U	0.03 U	0.092 U	0.032 U	0.13 U	0.239 J	0.047 U	0.022 U	0.038 U	0.056 U	0.077	0.035 U	0.04 U	0.044 U	0.169	0.0784	0.248
LHP-103	SS (1-3)	27-Mar-02	0.088 U	0.18 UJ	0.045 U	0.03 U	0.17 UJ	0.035 U	0.059 U	0.027 U	0.036 U	0.029 U	0.03 U	0.034 U	0.043 U	0.042 U	0.043 U	0.035 U	0.028 U	0.085 U	0.029 U	0.12 U	0.04 U	0.043 U	0.02 U	0.035 U	0.052 U	0.034 U	0.033 U	0.037 U	0.04 U	0.055 U	0.031 U	0.031 U
LHP-103	SS (0-1)	27-Mar-02	0.08 U	0.16 UJ	0.21 U	0.027 U	0.16 UJ	0.031 U	0.054 U	0.025 U	0.033 U	0.026 U	0.027 U	0.031 U	0.039 U	0.038 U	0.039 U	0.032 U	0.026 U	0.077 U	0.026 U	0.11 U	0.037 U	0.039 U	0.019 U	0.032 U	0.047 U	0.031 U	0.03 U	0.034 U	0.037 U	0.05 U	0.028 U	0.028 U
LHP-104	SS (0-1)	28-Mar-02	0.077 U	0.16 UJ	0.038 U	0.026 U	0.15 UJ	0.03 U	0.052 U	0.024 U	0.032 U	0.025 U	0.026 U	0.03 U	0.038 U	0.037 U	0.037 U	0.03 U	0.025 U	0.074 U	0.025 U	0.11 U	0.035 U	0.038 U	0.018 U	0.031 U	0.045 U	0.03 U	0.028 U	0.032 U	0.035 U	0.048 U	0.027 U	0.027 U
LHP-105	SS (0-1)	17-Mar-02	0.071 U	0.14 UJ	0.19 U	0.024 U	0.14 UJ	0.028 U	0.048 U	0.022 U	0.029 U	0.023 U	0.024 U	0.027 U	0.035 U	0.034 U	0.034 U	0.028 U	0.023 U	0.068 U	0.023 U	0.1 U	0.032 U	0.035 U	0.016 U	0.028 U	0.041 U	0.027 U	0.026 U	0.03 U	0.032 U	0.044 U	0.025 U	0.025 U
LHP-105 DUP	SS (0-1)	17-Mar-02	0.069 U	0.14 UJ	0.11 U	0.024 U	0.13 UJ	0.027 U	0.047 U	0.021 U	0.029 U	0.023 U	0.024 U	0.027 U	0.034 U	0.033 U	0.034 U	0.027 U	0.022 U	0.067 U	0.023 U	0.098 U	0.087 J	0.034 U	0.016 U	0.027 U	0.04 U	0.027 U	0.026 U	0.029 U	0.032 U	0.043 U	0.024 U	0.0604 J
LHP-105	SS (1-3)	17-Mar-02	0.09 U	0.18 UJ	0.039 U	0.03 U	0.17 UJ	0.035 U	0.06 U	0.028 U	0.037 U	0.029 U	0.03 U	0.035 U	0.044 U	0.043 U	0.043 U	0.035 U	0.029 U	0.086 U	0.03 U	0.13 U	0.041 U	0.044 U	0.021 U	0.036 U	0.052 U	0.034 U	0.033 U	0.038 U	0.041 U	0.056 U	0.031 U	0.031 U
LHP-106	SS (1-3)	29-Mar-02	0.099 U	0.2 UJ	0.23 U	0.034 U	0.19 UJ	0.039 U	0.067 U	0.031 U	0.041 U	0.032 U	0.034 U	0.038 U	0.048 U	0.047 U	0.048 U	0.039 U	0.032 U	0.096 U	0.033 U	0.14 U	0.045 U	0.049 U	0.023 U	0.039 U	0.058 U	0.038 U	0.037 U	0.042 U	0.046 U	0.062 U	0.035 U	0.035 U
LHP-106	SS (0-1)	29-Mar-02	0.068 U	0.14 UJ	0.19 U	0.023 U	0.13 UJ	0.027 U	0.046 U	0.021 U	0.028 U	0.022 U	0.023 U	0.026 U	0.033 U	0.032 U	0.033 U	0.027 U	0.022 U	0.066 U	0.022 U	0.096 U	0.0704 J	0.033 U	0.016 U	0.027 U	0.04 U	0.026 U	0.025 U	0.029 U	0.031 U	0.042 U	0.024 U	0.042 J
LHP-107	SS (0-1)	30-Mar-02	0.065 U	0.13 UJ	0.039 U	0.022 U	0.13 UJ	0.026 U	0.044 U	0.02 U	0.027 U	0.021 U	0.022 U	0.025 U	0.032 U	0.031 U	0.032 U	0.026 U	0.021 U	0.063 U	0.022 U	0.092 U	0.03 U	0.032 U	0.015 U	0.026 U	0.038 U	0.025 U	0.024 U	0.027 U	0.03 U	0.041 U	0.023 U	0.023 U
LHP-108	SS (0-1)	31-Mar-02	0.104 J	0.17 UJ	0.041 U	0.029 U	0.16 UJ	0.033 U	0.057 U	0.026 U	0.035 U	0.027 U	0.029 U	0.032 U	0.041 U	0.04 U	0.041 U	0.033 U	0.027 U	0.081 U	0.028 U	0.12 U	0.038 U	0.041 U	0.019 U	0.033 U	0.049 U	0.032 U	0.031 U	0.035 U	0.038 U	0.052 U	0.029 U	0.029 U
LHP-109	SS (0-1)	1-Apr-02	0.086 U	0.17 UJ	0.042 U	0.029 U	0.17 UJ	0.034 U	0.058 U	0.026 U	0.035 U	0.028 U	0.029 U	0.033 U	0.042 U	0.041 U	0.042 U	0.034 U	0.027 U	0.083 U	0.028 U	0.12 U	0.039 U	0.042 U	0.02 U	0.034 U	0.05 U	0.033 U	0.032 U	0.036 U	0.039 U	0.053 U	0.03 U	0.03 U
LHP-110	SS (0-1)	2-Apr-02	0.15 U	0.3 UJ	0.42 UJ	0.05 U	0.28 UJ	0.057 U	0.099 U	0.045 U	0.061 U	0.048 U	0.05 U	0.056 U	0.071 U	0.07 U	0.071 U	0.058 U	0.047 U	0.14 U	0.048 U	0.21 U	0.067 U	0.072 U	0.034 U	0.058 U	0.086 U	0.056 U	0.054 U	0.062 U	0.067 U	0.091 U	0.051 U	0.051 U
LHP-111	SS (0-1)	3-Apr-02	0.069 U	0.14 UJ	0.041 U	0.024 U	0.13 UJ	0.027 U	0.047 U	0.021 U	0.029 U	0.023 U	0.024 U	0.027 U	0.034 U	0.033 U	0.034 U	0.027 U	0.022 U	0.067 U	0.023 U	0.098 U	0.032 U	0.034 U	0.016 U	0.027 U	0.04 U	0.027 U	0.026 U	0.029 U	0.032 U	0.043 U	0.024 U	0.024 U
LHP-112	SS (0-1)	4-Apr-02	0.072 U	0.15 UJ	0.041 U	0.025 U	0.14 UJ	0.028 U	0.049 U	0.022 U	0.03 U	0.024 U	0.025 U	0.028 U	0.035 U	0.034 U	0.035 U	0.028 U	0.023 U	0.07 U	0.024 U	0.1 U	0.033 U	0.035 U	0.017 U	0.029 U	0.042 U	0.028 U	0.027 U	0.03 U	0.033 U	0.045 U	0.025 U	0.025 U
LHP-113	SS (0-1)	5-Apr-02	0.069 U	0.14 UJ	0.039 U	0.023 U	0.13 UJ	0.027 U	0.046 U	0.157 J	0.028 U	0.022 U	0.023 U	0.026 U	0.033 U	0.033 U	0.033 U	0.027 U	0.022 U	0.066 U	0.023 U	0.097 U	0.031 U	0.034 U	0.016 U	0.027 U	0.04 U	0.026 U	0.025 U	0.029 U	0.031 U	0.043 U	0.024 U	0.024 U
LHP-114	SS (0-1)	6-Apr-02	0.067 U	0.14 UJ	0.04 U	0.023 U	0.13 UJ	0.026 U	0.045 U	0.021 U	0.028 U	0.022 U	0.023 U	0.026 U	0.033 U	0.032 U	0.032 U	0.026 U	0.021 U	0.065 U	0.022 U	0.095 U	0.031 U	0.033 U	0.016 U	0.027 U	0.039 U	0.026 U	0.025 U	0.028 U	0.031 U	0.042 U	0.023 U	0.023 U
LHP-115	SS (0-1)	7-Apr-02	0.066 U	0.13 UJ	0.038 U	0.022 U	0.13 UJ	0.026 U	0.044 U	0.0353 J	0.027 U	0.022 U	0.022 U	0.025 U	0.032 U	0.031 U	0.032 U	0.026 U	0.021 U	0.064 U	0.022 U	0.093 U	0.03 U	0.032 U	0.015 U	0.026 U	0.038 U	0.025 U	0.024 U	0.028 U	0.03 U	0.041 U	0.023 U	0.023 U
LHP-116	SS (0-1)	8-Apr-02	0.073 U	0.15 UJ	0.041 U	0.025 U	0.14 UJ	0.029 U	0.049 U	0.023 U	0.03 U	0.024 U	0.025 U	0.028 U	0.036 U	0.035 U	0.036 U	0.029 U	0.023 U	0.071 U	0.024 U	0.1 U	0.034 U	0.036 U	0.017 U	0.029 U	0.043 U	0.028 U	0.027 U	0.031 U	0.034 U	0.046 U	0.026 U	0.026 U
LHP-117	SS (0-1)	9-Apr-02	0.078 U	0.16 UJ	0.042 U	0.026 U	0.15 UJ	0.03 U	0.052 U	0.024 U	0.032 U	0.025 U	0.026 U	0.03 U	0.038 U	0.037 U	0.038 U	0.031 U	0.025 U	0.075 U	0.026 U	0.11 U	0.036 U	0.038 U	0.018 U	0.031 U	0.045 U	0.03 U	0.029 U	0.033 U	0.036 U	0.048 U	0.027 U	0.027 U
LHP-118	SS (0-1)	10-Apr-02	0.099 U	0.2 UJ	0.22 U	0.034 U	0.19 UJ	0.0421 J	0.067 U	0.031 U	0.041 U	0.033 U	0.034 U	0.038 U	0.048 U	0.047 U	0.048 U	0.039 U	0.0404 J	0.096 U	0.033 U	0.14 U	0.045 U	0.049 U	0.023 U	0.039 U	0.058 U	0.147	0.037 U	0.042 U	0.046 U	0.204	0.0758	0.28
LHP-119	SS (0-1)	11-Apr-02	0.096 U	0.19 UJ	0.042 U	0.033 U	0.19 UJ	0.038 U	0.065 U	0.029 U	0.04 U	0.031 U	0.033 U	0.037 U	0.047 U	0.046 U	0.046 U	0.038 U	0.031 U	0.092 U	0.032 U	0.14 U	0.044 U	0.047 U	0.022 U	0.038 U	0.056 U	0.037 U	0.035 U	0.04 U	0.044 U	0.06 U	0.034 U	0.034 U
LHP-120	SS (0-1)	12-Apr-02	0.13 U	0.26 UJ	0.047 U	0.044 U	0.25 UJ	0.05 U	0.087 U	0.04 U	0.053 U	0.042 U	0.044 U	0.05 U	0.063 U	0.061 U	0.062 U	0.051 U	0.041 U	0.12 U	0.042 U	0.18 U	0.165 J	0.063 U	0.03 U	0.051 U	0.075 U	0.049 U	0.047 U	0.054 U	0.059 U	0.08 U	0.045 U	0.0892 J
LHP-121	SS (0-1)	13-Apr-02	0.095 U	0.19 UJ	0.041 U	0.0511 J	0.18 UJ	0.037 U	0.064 U	0.029 U	0.039 U	0.031 U	0.032 U	0.037 U	0.046 U	0.045 U	0.046 U	0.037 U	0.0874	0.092 U	0.0377 J	0.13 U	0.408	0.047 U	0.022 U	0.038 U	0.055 U	0.325	0.035 U	0.04 U	0.044 U	0.316	0.186	0.502
LHP-122	SS (0-1)	14-Apr-02	0.076 U	0.16 UJ	0.039 U	0.026 U	0.15 UJ	0.03 U	0.051 U	0.023 U	0.032 U	0.025 U	0.026 U	0.029 U	0.037 U	0.036 U	0.037 U	0.03 U	0.024 U	0.074 U	0.025 U	0.11 U	0.035 U	0.037 U	0.018 U	0.03 U	0.045 U	0.029 U	0.028 U	0.032 U	0.035 U	0.048 U	0.027 U	0.027 U
LHP-123	SS (0-1)	15-Apr-02	0.084 U	0.17 UJ	0.042 U	0.029 U	0.16 UJ	0.033 U	0.057 U	0.026 U	0.035 U	0.028 U	0.029 U	0.032 U	0.041 U	0.04 U	0.041 U	0.033 U	0.027 U	0.081 U	0.028 U	0.12 U	0.038 U	0.041 U	0.02 U	0.033 U	0.049 U	0.032 U	0.031 U	0.035 U	0.039 U	0.052 U	0.029 U	0.029 U
LHP-124	SS (0.5-2)	19-Sep-01	0.11 U	0.22 UJ	0.043 U	0.037 U	0.21 UJ	0.043 U	0.073 U	0.033 U	0.045 U	0.036 U	0.037 U	0.042 U	0.053 U	0.052 U	0.053 U	0.043 U	0.035 U	0.11 U	0.036 U	0.15 U	0.05 U	0.053 U	0.025 U	0.043 U	0.064 U	0.042 U	0.04 U	0.046 U	0.05 U	0.068 U	0.038 U	0.038 U
LHP-125	SS (0.5-2)	20-Sep-01	0.087 U	0.18 UJ	0.041 U	0.029 U	0.17 UJ	0.034 U	0.058 U	0.027 U	0.036 U	0.028 U	0.029 U	0.033 U	0.042 U	0.041 U	0.042 U	0.034 U	0.028 U	0.084 U	0.029 U	0.12 U	0.04 U	0.042 U	0.02 U	0.034 U	0.051 U	0.033 U	0.032 U	0.036 U	0.04 U	0.054 U	0.03 U	0.03 U
LHP-127	SS (0-1)	16-Apr-02	0.099 U	0.2 UJ	0.039 U	0.034 U	0.19 UJ	0.039 U	0.067 U	0.03 U	0.041 U	0.032 U	0.034 U	0.038 U	0.048 U	0.047 U	0.048 U	0.039 U	0.032 U	0.095 U	0.033 U	0.14 U	0.442	0.049 U	0.023 U	0.039 U	0.058 U	0.119	0.036 U	0.042 U	0.045 U	0.187	0.131	0.318
LHP-128	SS (0-1)	19-Mar-02	0.064 U	0.13 UJ	0.038 U	0.0989	0.12 UJ	0.025 U	0.043 U	0.02 U	0.026 U	0.021 U	0.022 U	0.025 U	0.031 U	0.031 U	0.031 U	0.025 U	0.121	0.062 U	0.0247 J	0.091 U	0.029 U	0.031 U	0.015 U	0.025 U	0.037 U	0.533	0.024 U	0.027 U	0.029 U	0.449	0.171	0.62
LHP-128 DUP	SS (0-1)	19-Mar-02	0.066 U	0.13 UJ	0.038 U	0.0748	0.13 UJ	0.026 U	0.044 U	0.02 U	0.027 U	0.021 U	0.022 U	0.025 U	0.032 U	0.031 U	0.032 U	0.026 U	0.0823	0.063 U	0.022 U	0.092 U	0.131 J	0.032 U	0.015 U	0.026 U	0.038 U	0.403	0.024 U	0.028 U	0.03 U	0.307	0.123	0.429
LP-1	SS (0-0.5)	8-Jan-02	--	0.0062 U	--	0.0025 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	--	0.0062 U	--	0.0078 UJ	0.0062 U	--	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	--	--	0.0062 U
LP-10	SS (0-0.5)	21-Sep-01	--	0.181	--	0.0016 J	0.0223	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	--	0.0062 U	--	0.0083 UJ	0.0062 U	--	0.0062 U	0.0019 J	0.0062 U	0.0062 U	0.0062 U	--	--	0.0062 U
LP-10	SS (0.5-2)	21-Sep-01	--	0.0449	--	0.002 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0164	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051

ATTACHMENT A
Supplemental Data Tables

Table A-1.7
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)		Sampling Date	Volatile Organic Compounds (mg/kg)																															
				Acetic Acid, Methyl	Acetone	Benzal dehyde	Benzene	2-Butanone (MEK)	Carbon Disulfide	Carbon Tetrac hloride	Chloro benzene	Chloro form	Chloro methane	1,1-Dichloro ethane	1,2-Dichloro ethane	1,1-Dichloro ethene	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	1,2-Dichloro propane	Ethyl benzene	2-Hexanone	Isopropyl benzene	4-Methyl-2-Pentanone (MIBK)	Methyl cyclo hexane	Methylene Chloride	Styrene	Tert-Butyl Methyl Ether	Tetrachloro ethylene (PCE)	Toluene	Trichloro ethene (TCE)	1,1,1-Trichloro ethane	Vinyl Chloride	M,P-Xylene (sum of isomers)	O-Xylene	Xylenes, Mixed
RR-8	SS	(0-0.5)	6-Feb-02	--	0.0752 J	--	0.0015 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0015 U	0.0074 U	--	0.0074 U	--	0.0074 UJ	0.0074 U	--	0.0182 J	0.0015 U	0.0074 U	0.0074 U	0.0074 U	--	--	0.0029 U
RR-9	SS	(0-0.5)	7-Feb-02	--	0.488	--	0.0013 U	0.0447	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0013 U	0.0066 U	--	0.0066 U	--	0.0165 UJ	0.0066 U	--	0.0066 U	0.0013 U	0.0066 U	0.0066 U	0.0066 U	--	--	0.0027 U
SILO-B1	SS	(0-0.5)	8-Feb-02	--	0.0756	--	0.0015	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0011 U	0.0053 U	--	0.0053 U	--	0.0053 UJ	0.0053 U	--	0.0053 U	0.0011 U	0.0053 U	0.0053 U	0.0053 U	--	--	0.0011 U
SILO-B2	SS	(0-0.5)	9-Feb-02	--	0.0052 U	--	0.0026	0.0052 U	0.0052	0.0052 U	0.0052 U	0.0208	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.001 U	0.0052 U	--	0.0052 U	--	0.0052 U	0.0052 U	--	0.0165	0.0022	0.0052 U	0.0052 U	0.0052 U	--	--	0.001 U
SILO-B3	SS	(0-0.5)	10-Feb-02	--	0.0628	--	0.0027	0.005 U	0.0208	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.00099 U	0.005 U	--	0.005 U	--	0.005 UJ	0.005 U	--	0.005 U	0.00099 U	0.005 U	0.005 U	0.005 U	--	--	0.00099 U
SILO-B4	SS	(0-0.5)	11-Feb-02	--	0.0464	--	0.0016 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	0.0016 U	0.008 U	--	0.008 U	--	0.008 UJ	0.008 U	--	0.008 U	0.0016 U	0.008 U	0.008 U	0.008 U	--	--	0.0035
SPR-1	SS	(0-0.5)	12-Feb-02	--	0.166	--	0.0011 U	0.016	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0011 U	0.0057 U	--	0.0057 U	--	0.0066 UJ	0.0057 U	--	0.0057 U	0.0011 U	0.0057 U	0.0057 U	0.0057 U	--	--	0.0029
SPR-2A	SS	(0-0.5)	13-Feb-02	--	0.0829	--	0.0022 J	0.009 U	0.009 U	0.009 U	0.009 U	0.0016 J	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	--	0.009 U	--	0.009 UJ	0.009 U	--	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	--	--	0.006 J
SPR-2B	SS	(0-0.5)	14-Feb-02	--	0.0472	--	0.0049 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	--	0.012 U	--	0.012 U	0.012 U	--	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	--	--	0.012 U
SPR-3	SS	(0-0.5)	15-Feb-02	--	0.43 U	--	0.17 U	0.43 U	0.43 U	0.43 U	0.43 U	0.201 J	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	--	0.43 U	--	0.43 U	0.43 U	--	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	--	--	0.43 U
SPR-4A	SS	(0-0.5)	16-Feb-02	--	0.05	--	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	0.005 U	--	0.005 UJ	0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	--	0.005 U
SPR-4B	SS	(0-0.5)	17-Feb-02	--	0.0304	--	18.9	0.0066 U	0.0084	0.0066 U	0.0055 J	0.106	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0074	0.0066 U	0.0066 U	0.0898	0.0066 U	--	0.0066 U	--	0.0332	0.0082	--	0.0422	0.008	0.0039 J	0.0066 U	0.0066 U	--	--	0.0066 U
SPR-4C	SS	(0-0.5)	18-Feb-02	--	0.0466	--	0.0023 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0116	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	0.0058 U	--	0.0083 UJ	0.0058 U	--	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	--	0.0058 U
SPR-5	SS	(0-0.5)	19-Feb-02	--	0.006 U	--	0.0012 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.0012 U	0.006 U	--	0.006 U	--	0.0077 UJ	0.006 U	--	0.006 U	0.0012 U	0.006 U	0.006 U	0.006 U	--	--	0.0024 U
SPR-6	SS	(0-0.5)	27-Sep-01	--	0.0053 U	--	0.0011 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0011 U	0.0053 U	--	0.0053 U	--	0.0053 UJ	0.0053 U	--	0.0053 U	0.0011 U	0.0053 U	0.0053 U	0.0053 U	--	--	0.0021 U
SPR-6	SS	(0.5-2)	27-Sep-01	--	0.0851	--	0.0012 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0012 U	0.0058 U	--	0.0058 U	--	0.0058 UJ	0.0058 U	--	0.0058 U	0.0012 U	0.0058 U	0.0058 U	0.0058 U	--	--	0.0023 U
SR-1	SS	(0-0.5)	21-Feb-02	--	0.162	--	0.0019 J	0.0482	0.0023 J	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0063	--	0.0058 U	--	0.0058 UJ	0.0058 U	--	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	--	0.0058 U
SR-2	SS	(0-0.5)	22-Feb-02	--	0.217	--	0.0018 J	0.0382	0.003 J	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	--	0.0067 U	--	0.0067 UJ	0.0067 U	--	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	--	--	0.0067 U
ST-1	SS	(0-0.5)	23-Feb-02	--	0.0379	--	0.0033	0.005 U	0.005 U	0.005 U	0.005 U	0.0189	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 U	0.005 U	--	0.005 U	--	0.0067 UJ	0.005 U	--	0.005 U	0.001 U	0.005 U	0.005 U	0.005 U	--	--	0.001 U
ST-2	SS	(0-0.5)	24-Feb-02	--	0.04	--	0.0018	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0148	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.00096 U	0.0048 U	--	0.0048 U	--	0.0103 UJ	0.0048 U	--	0.0048 U	0.00096 U	0.0048 U	0.0048 U	0.0048 U	--	--	0.00096 U
ST-3	SS	(0-0.5)	25-Feb-02	--	0.0059 U	--	0.0012 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0012 U	0.0059 U	--	0.0059 U	--	0.0059 UJ	0.0059 U	--	0.0059 U	0.0012 U	0.0059 U	0.0059 U	0.0059 U	--	--	0.0012 U
TES-1	SS	(0-1)	17-Apr-02	--	0.2 UJ	--	0.034 U	0.19 UJ	0.039 U	0.067 U	0.031 U	0.0825 J	0.033 U	0.034 U	0.039 U	0.049 U	0.048 U	0.049 U	0.039 U	0.032 U	0.097 U	--	0.14 U	--	0.049 U	0.023 U	--	0.058 U	0.039 U	0.037 U	0.042 U	0.046 U	--	--	0.109 J
TES-2	SS	(0-1)	18-Apr-02	0.253 J	0.23 UJ	0.45 U	0.039 U	0.22 UJ	0.045 U	0.077 U	0.035 U	0.047 U	0.038 U	0.039 U	0.044 U	0.056 U	0.055 U	0.056 U	0.045 U	0.037 U	0.11 U	0.038 U	0.16 U	0.052 U	0.056 U	0.027 U	0.045 U	0.067 U	0.044 U	0.042 U	0.048 U	0.053 U	0.071 U	0.04 U	0.04 U
TES-3	SS	(0-1)	19-Apr-02	0.098 U	0.2 UJ	0.246 J	0.033 U	0.19 UJ	0.038 U	0.066 U	0.03 U	0.14 J	0.032 U	0.033 U	0.038 U	0.048 U	0.046 U	0.047 U	0.038 U	0.031 U	0.094 U	0.032 U	0.14 U	0.045 U	0.048 U	0.023 U	0.039 U	0.057 U	0.037 U	0.036 U	0.041 U	0.045 U	0.061 U	0.034 U	0.034 U
TES-4	SS	(0-1)	20-Apr-02	--	0.24 UJ	--	0.183	0.23 UJ	0.045 U	0.078 U	0.036 U	0.048 U	0.038 U	0.164 J	0.045 U	0.057 U	0.055 U	0.056 U	0.046 U	0.0662 J	0.11 U	--	0.16 U	--	0.057 U	0.027 U	--	0.199 J	0.453	0.043 U	1.11	0.053 U	--	--	0.375
TLN-1	SS	(0-0.5)	28-Sep-01	--	0.0346	--	0.0026	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0128	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	--	0.0056 U	--	0.0056 UJ	0.0056 U	--	0.0056 U	0.0056 U	0.0056 U	0.0056 U	0.0056 U	--	--	0.0056 U
TLN-1	SS	(0.5-2)	28-Sep-01	--	0.0853	--	0.0018 J	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0158	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	--	0.0059 U	--	0.0132 UJ	0.0059 U	--	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	--	--	0.0059 U
TLN-2	SS	(0-0.5)	27-Feb-02	--	0.0381	--	0.0031 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0026 J	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	--	0.0076 U	--	0.0076 UJ	0.0076 U	--	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	--	--	0.0076 U
TLN-3	SS	(0-0.5)	28-Feb-02	--	0.42 J	--	0.0023 U	0.0058 U	0.0058 U	0.0058 U	0.0023 J	0.0012 J	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0028 J	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	0.0058 U	--	0.0058 UJ	0.0058 U	--	0.0169	0.0058 U	0.0061	0.0058 U	0.0058 U	--	--	0.0023 J
TLN-4	SS	(0-0.5)	22-Oct-01	--	0.0267	--	0.0022 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	--	0.0054 U	--	0.0054 UJ	0.0054 U	--	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	--	--	0.0054 U
TLN-4 DUP	SS	(0-0.5)	22-Oct-01	--	0.0348	--	0.0019 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	--	0.0048 U	--	0.0082 UJ	0.0048 U	--	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	--	--	0.0048 U
TLN-5	SS	(0-0.5)	29-Sep-01	--	0.407	--	0.0026 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0053 J	0.0066 U	--	0.0066 U	--	0.0082 UJ	0.0066 U	--	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	--	--	0.0321
TLN-5	SS	(0.5-2)	29-Sep-01	--	0.0658	--	0.0049 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	--	0.012 U	--	0.0125 UJ	0.012 U	--	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	--	--	0.012 U
TLN-6	SS	(0-0.5)	2-Mar-02	--	0.206	--	0.0019 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	--	0.0048 U	--	0.0048 U	0.0048 U	--	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	--	--	0.0048 U
TLS-1	SS	(0-0.5)	3-Mar-02	--	0.012 U	--	0.0023 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.0023 U	0.012 U	--	0.012 U	--	0.0122 UJ	0.012 U	--	0.012 U	0.0023 U	0.012 U	0.012 U	0.012 U	--	--	0.0023 U
TLS-10	SS	(0-0.5)	4-Mar-02	--	0.52 U	--	0.21 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	--	0.52 U	--	0.52 U	0.52 U	--	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	--	--	0.52 U
TLS-11	SS	(0-0.5)	5-Mar-02	--	0.007 U	--	0.0265	0.007 U	0.007 UJ	0.007 U	0.007 U	0.0814	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.0014 U	0.007 U	--	0.007 U	--	0.007 U	0.007 U	--	0.007 U	0.0014 U	0.007 U	0.007 U	0.007 U	--	--	0.0028 U
TLS-2	SS	(0-0.5)	6-Mar-02	--	0.113	--	0.001 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0086	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.001 U	0.0052 U	--	0.0052 U	--	0.0052 U	0.0052 U	--	0.0052 U	0.001 U	0.0052 U	0.0052 U	0.0052 U	--	--	0.0021 U
TLS-3	SS	(0-0.5)	7-Mar-02	--	0.46 U	--	0.18 U	0.46 U	0.46 U	0.46 U	0.46 U	0.788	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	--	0.46 U	--	0.46 U	0.46 U	--	0.308 J	0.46 U	0.46 U	0.46 U	0.46 U	--	--	0.46 U
TLS-4	SS	(0-0.5)	8-Mar-02	--	0.0352	--	0.001 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0274	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.001 U	0.0052 U	--	0.0052 U	--	0.0052 UJ	0.0052 U	--	0.0052 U	0.001 U	0.0052 U	0.0052 U	0.0052 U	--	--	0.0021 U
TLS-5	SS	(0-0.5)	9-Mar-02	--	0.0217	--	0.0021 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	--	0.0053 U	--	0.0102 UJ	0.0053 U	--	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	--	--	0.0053 U
TLS-6	SS	(0-0.5)	10-Mar-02	--	0.47 U	--	0.19 U	0.47 U	0.47 U	0.47 U	0.47 U	0.114 J	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	--	0.47 U	--	0.47 U	0.47 U	--	0.47 U	0.157 J	0.47 U	0.47 U	0.47 U	--	--	0.386 J
TLS-7	SS	(0-0.5)	11-Mar-02	--	0.55 U	--	0.22 U	0.55 U	0.55 U	0.55 U	0.55 U	2.98	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	--	0.55 U	--	0.55 U	0.55 U	--	0.763	0.55 U	0.55 U	0.55 U	0.55 U	--	--	0.55 U
TLS-8	SS	(0-0.5)	12-Mar-02	--	0.0338	--	0.0011 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0419	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0011 U	0.0057 U	--	0.0057 U	--	0.0057 U	0.0057 U	--	0.0057 U	0.0011 U	0.0057 U	0.0057 U	0.0057 U	--	--	0.0023 U
TLS-9	SS	(0-0.5)	13-Mar-02	--	0.45 U	--	0.18 U	0.45 U	0.45 U	0.45 U	0.45 U	0.579	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	--	0.45 U	--	0.45 U	0.45 U	--	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	--	--	0.45 U
WWT-1A	SS	(0-0.5)	14-Mar-02	--	0.0468	--	0.0029 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	--	0.0074 U	--	0.0131 UJ	0.0074 U	--	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	--	--	0.0074 U
WWT-2	SS	(0-0.5)	15-Mar-02	--	0.0226	--	0.0023 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	0.0058 U	--	0.0299	0.0058 U	--	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	--	0.0058 U
WWT-3	SS	(0-0.5)	16-Mar-02	--	0.0757	--	0.0026 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	--	0.0064 U	--	0.0097 UJ	0.0064 U	--	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	--	--	0.0064 U
230-B1	SB	(4-6)	27-Oct-01	--	3 U	--	143	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	0.61 U	3 U	--	3 U	--	1.89 J	3 U	--	3 U	1.57	139	3 U	3 U	--	--	1.2 U
231-B11	SB	(8-10)	7-Nov-01	--	0.191	--	0.002	0.0692	0.0216	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0092 U	0.0018 U	0.0092 U	--	0.0092 U	--	0.0092 UJ	0.0092 U	--	0.0092 U	0.0018 U	0.0092 U	0.0092 U	0.0092 U	--	--	0.0037 U
231-B13	SB	(8-10)	9-Nov-01	--	12 U	--	2.3 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	2.3 U	12 U	--	12 U	--	690	12 U	--	12 U	2.3 U	12 U	12 U	12 U	--	--	4.6 U
231-B4	SB	(6-8)	13-Nov-01	--	0.206	--	0.0125	0.0518	0.0267	0.0052 U	4.04	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0048	0.0052 U	--	0.0052 U	--	0.0168 J	0.0052 U	--	0.0052 U	0.0034	0.0052 U	0.0052 U	0.0052 U	--	--	0.0208
231-B6	SB	(4-6)	14-Nov-01	--	0.128	--	0.0027 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.0027 U	0.014 U	--	0.014 U	--	0.014 UJ	0.014 U	--	0.014 U	0.0027 U	0.014 U	0.014 U	0.014 U	--	--	0.0055 U
231-B8	SB	(8-10)	15-Nov-01	--	4.8 U	--	9.22	4.8 U	5.4	4.8 U	74.4	44.6	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	0.96 U	4.8 U	--	4.8 U	--	10.8	4.8 U	--	6.48	0.96 U	4.8 U	4.8 U	4.8 U	--	--	6.29
240-1	SB	(8-10)	17-Nov-01	--	2.5	--	0.0012 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.0012 U	0.006 U	--	0.006 U	--	0.006 UJ	0.006 U	--	0.006 U	0.0012 U	0.006 U	0.006 U	0.006 U	--	--	0.0024 U
5K-B2	SB	(8-10)	19-Nov-01	--	0.0589	--	0.0048	0.109	0.023	0.0048 U	0.0049	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.00095 U	0.0048 U	--	0.0048 U	--	0.0048 UJ	0.0048 U	--	0.0048 U	0.00095 U	0.0048 U	0.0048 U	0.0048 U	--	--	0.00095 U
5K-B4	SB	(4-6)	21-Nov-01	--	0.31 U	--	0.133	0.31 U	0.31 U	0.31 U	3.1	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.062 U	0.31 U	--	0.31 U	--	0.31 U	0.31 U	--	0.31 U	0.064	0.31 U	0.31 U	0.31 U	--	--	0.12 U
5K-B5	SB	(4-6)	22-Nov-01	--	0.0602 J	--	0.0186	0.0051 U	0.0099	0.0051 U	0.0726	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0017	0.0051 U	--	0.0051 U	--	0.0051 UJ	0.0051 U	--	0.0051 U	0.0023	0.0051 U	0.0051 U	0.0051 U	--	--	0.0038
5K-B5 DUP	SB	(4-6)	22-Nov-01	--	0.0774 J	--	0.0018	0.0054 U	0.0054 U	0.0054 U	0.0177	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0054 U	0.0011 U	0.0054 U	--	0.0054 U	--	0.0095 UJ	0.0054 U	--	0.0054 U	0.0011 U	0.0054 U	0.0054 U	0.0054 U	--	--	0.0022 U
ADN-1	SB	(8-10)	25-Nov-01	--	0.88 U	--	0.18 U	0.88 U	0.88 U	0.88 U	9.27	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	0.18 U	0.88 U	--	0.88 U	--	0.88 U	0.88 U	--	0.88 U	0.18 U	0.88 U	0.88 U	0.88 U	--	--	0.35 U
ADN-1 DUP	SB	(8-10)	25-Nov-01	--	0.053	--	0.0468	0.0053 U	0.0053 U	0.0053 U	3.87	0.0305	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0199	0.0041	0.0053 U	--	0.0053 U	--	0.0156 UJ	0.0053 U	--	0.0053 U	0.0288	0.0053 U	0.0053 U	0.0053 U	--	--	0.0531
ADS-10	SB	(4-6)	28-Nov-01	--	0.06 UJ	--	0.005 U	0.012 U	0.0061 J	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	--	0.012 U	--	0.012 UJ	0.012 U	--	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	--	--	0.012 U
ADS-102	SB	(7-8)	21-Apr-02	0.082 U	0.17 UJ	0.044 U	0.028 U	0.16 UJ	0.032 U	0.055 U	0.0297 J	0.034 U	0.027 U	0.028 U	0.032 U	0.04 U	0.039 U	0.04 U	0.032 U	0.026 U	0.079 U	0.027 U	0.12 U	0.038 U	0.04 U	0.019 U	0.033 U	0.048 U	0.032 U	0.03 U	0.035 U	0.038 U	0.051 U	0.029 U	0.029 U
ADS-2	SB	(4-6)	8-Oct-01	--	0.0049 U	--	0.002 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U	--	0.0049 U	--	0.0049 UJ	0.0049 U	--	0.0049 U	0.0014 J	0.0049 U	0.0049 U	0.0049 U	--	--	0.0049 U
ADS-5	SB	(4-6

ATTACHMENT A
Supplemental Data Tables

Table A-1.7
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Surface and Subsurface Soil - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth Interval (ft bgs)	Sampling Date	Volatile Organic Compounds (mg/kg)																															
			Acetic Acid, Methyl	Acetone	Benzal dehyde	Benzene	2-Butanone (MEK)	Carbon Disulfide	Carbon Tetrac hloride	Chloro benzene	Chloro form	Chloro methane	1,1-Dichloro ethane	1,2-Dichloro ethane	1,1-Dichloro ethene	Cis-1,2-Dichloro ethene	Trans-1,2-Dichloro ethene	1,2-Dichloro propane	Ethyl benzene	2-Hexanone	Isopropyl benzene	4-Methyl-2-Pentanone (MIBK)	Methyl cyclo hexane	Methylene Chloride	Styrene	Tert-Butyl Methyl Ether	Tetrachloro ethylene (PCE)	Toluene	Trichloro ethene (TCE)	1,1,1-Trichloro ethane	Vinyl Chloride	M,P-Xylene (sum of isomers)	O-Xylene	Xylenes, Mixed
LHP-107	SB (5-7)	30-Mar-02	0.081 U	0.16 UJ	0.042 U	0.027 U	0.16 UJ	0.032 U	0.054 U	0.025 U	0.033 U	0.026 U	0.027 U	0.031 U	0.039 U	0.038 U	0.039 U	0.032 U	0.026 U	0.078 U	0.027 U	0.11 U	0.037 U	0.04 U	0.019 U	0.032 U	0.047 U	0.031 U	0.03 U	0.034 U	0.037 U	0.05 U	0.028 U	0.028 U
LHP-108	SB (3-7)	31-Mar-02	0.085 U	0.17 UJ	0.044 U	0.029 U	0.17 UJ	0.033 U	0.057 U	0.026 U	0.035 U	0.028 U	0.029 U	0.033 U	0.042 U	0.041 U	0.041 U	0.034 U	0.027 U	0.082 U	0.028 U	0.12 U	0.039 U	0.042 U	0.02 U	0.034 U	0.05 U	0.033 U	0.031 U	0.036 U	0.039 U	0.053 U	0.03 U	0.03 U
LHP-109	SB (7-9)	1-Apr-02	0.14 U	0.28 UJ	0.05 U	0.117	0.26 UJ	0.053 U	0.092 U	0.575	0.056 U	0.044 U	0.046 U	0.052 U	0.066 U	0.065 U	0.066 U	0.053 U	0.043 U	0.13 U	0.045 U	0.19 U	0.062 U	0.067 U	0.032 U	0.054 U	0.079 U	0.0794 J	0.05 U	0.057 U	0.062 U	0.161 J	0.048 U	0.183 J
LHP-124	SB (2-4)	19-Sep-01	0.078 U	0.16 UJ	--	0.026 U	0.15 UJ	0.03 U	0.052 U	0.024 U	0.032 U	0.025 U	0.026 U	0.03 U	0.038 U	0.037 U	0.038 U	0.031 U	0.025 U	0.075 U	0.026 U	0.11 U	0.036 U	0.038 U	0.018 U	0.031 U	0.045 U	0.03 U	0.029 U	0.033 U	0.036 U	0.048 U	0.027 U	0.027 U
LHP-125	SB (4-6)	20-Sep-01	0.091 U	0.18 UJ	0.041 U	0.031 U	0.18 UJ	0.036 U	0.061 U	0.028 U	0.038 U	0.03 U	0.031 U	0.035 U	0.044 U	0.043 U	0.044 U	0.036 U	0.029 U	0.088 U	0.03 U	0.13 U	0.042 U	0.045 U	0.021 U	0.036 U	0.053 U	0.035 U	0.034 U	0.038 U	0.042 U	0.057 U	0.032 U	0.032 U
LHP-126	SB (2-4)	7-Jul-02	0.087 U	0.18 U	0.041 U	0.03 U	0.17 U	0.034 U	0.058 U	0.027 U	0.036 U	0.028 U	0.03 U	0.033 U	0.042 U	0.041 U	0.042 U	0.034 U	0.028 U	0.084 U	0.029 U	0.12 U	0.04 U	0.043 U	0.02 U	0.034 U	0.051 U	0.0354 J	0.032 U	0.036 U	0.04 U	0.054 U	0.03 U	0.03 U
LHP-126	SB (8-10)	7-Jul-02	0.13 U	0.26 U	0.045 U	0.044 U	0.25 U	0.05 U	0.086 U	0.0667 J	0.053 U	0.042 U	0.044 U	0.049 U	0.063 U	0.061 U	0.062 U	0.05 U	0.041 U	0.12 U	0.042 U	0.18 U	0.059 U	0.063 U	0.03 U	0.051 U	0.075 U	0.049 U	0.047 U	0.054 U	0.059 U	0.08 U	0.045 U	0.045 U
LHP-127	SB (3-5)	16-Apr-02	0.076 U	0.16 UJ	0.039 U	0.026 U	0.15 UJ	0.03 U	0.051 U	0.023 U	0.032 U	0.025 U	0.026 U	0.029 U	0.037 U	0.036 U	0.037 U	0.03 U	0.024 U	0.074 U	0.025 U	0.11 U	0.0978 J	0.037 U	0.018 U	0.03 U	0.045 U	0.0538 J	0.028 U	0.032 U	0.035 U	0.0607 J	0.0295 J	0.0902 J
LP-12	SB (4-6)	11-Jan-02	--	0.0058 U	--	0.0023 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	0.0058 U	--	0.0108 UJ	0.0058 U	--	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	--	--	0.0058 U
LP-6	SB (4-6)	20-Jan-02	--	0.0066 U	--	0.0026 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	--	0.0066 U	--	0.0098 UJ	0.0066 U	--	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	--	--	0.0066 U
MW-26S	SB (8-10)	12-Jul-02	0.11 U	0.21 U	0.048 U	0.036 U	0.2 U	0.041 U	0.071 U	0.168 J	0.043 U	0.034 U	0.036 U	0.04 U	0.051 U	0.05 U	0.051 U	0.041 U	0.034 U	0.1 U	0.035 U	0.15 U	0.048 U	0.051 U	0.024 U	0.042 U	0.061 U	0.04 U	0.039 U	0.044 U	0.048 U	0.065 U	0.037 U	0.037 U
PCA-1	SB (4-6)	23-Jan-02	--	0.045	--	0.0028 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	--	0.007 U	--	0.007 UJ	0.007 U	--	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	--	--	0.007 U
PCA-3	SB (4-6)	25-Jan-02	--	0.033	--	0.003	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0021 U	0.01 U	--	0.01 U	--	0.01 UJ	0.01 U	--	0.01 U	0.003	0.0494	0.01 U	0.01 U	--	--	0.0042 U
PCA-4	SB (4-6)	18-Oct-01	--	0.125	--	0.0044	0.0077 U	0.0155	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0015 U	0.0077 U	--	0.0077 U	--	0.0077 UJ	0.0077 U	--	0.0077 U	0.0037	0.0165	0.0077 U	0.0077 U	--	--	0.0031 U
RR-2	SB (8-10)	31-Jan-02	--	0.114	--	0.0015 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0073 U	0.0015 U	0.0073 U	--	0.0073 U	--	0.044	0.0073 U	--	0.0073 U	0.0017	0.0073 U	0.0073 U	0.0073 U	--	--	0.0029 U
RR-4	SB (6-8)	2-Feb-02	--	0.042	--	0.0021 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0088 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0021 U	0.01 U	--	0.01 U	--	0.01 UJ	0.01 U	--	0.01 U	0.0021 U	0.0099 J	0.01 U	0.01 U	--	--	0.0042 U
RR-6	SB (8-10)	4-Feb-02	--	0.0716	--	0.0016	0.004 U	0.0027 J	0.004 U	0.013	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.00081 U	0.004 U	--	0.004 U	--	0.0052 UJ	0.004 U	--	0.004 U	0.00081 U	0.004 U	0.004 U	0.004 U	--	--	0.0016 U
RR-8	SB (6-8)	6-Feb-02	--	0.024 U	--	0.0048 U	0.024 U	0.0117 J	0.024 U	0.481	0.024 U	0.024 U	0.024 U	0.024 U	0.024 U	0.024 U	0.024 U	0.024 U	0.0048 U	0.024 U	--	0.024 U	--	0.024 UJ	0.024 U	--	0.024 U	0.0048 U	0.024 U	0.024 U	0.024 U	--	--	0.0096 U
SILO-B1	SB (6-8)	8-Feb-02	--	0.792	--	0.27	0.251	0.0835	0.021 U	0.396	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.076	0.021 U	--	0.021 U	--	0.021 UJ	0.021 U	--	0.021 U	0.695	0.021 U	0.021 U	0.021 U	--	--	0.309
SILO-B1 DUP	SB (6-8)	8-Feb-02	--	0.186	--	0.114	0.0547	0.0506	0.0088 U	0.147	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0324	0.0088 U	--	0.0088 U	--	0.0088 UJ	0.0088 U	--	0.0088 U	0.298	0.0088 U	0.0088 U	0.0088 U	--	--	0.146
SILO-B3	SB (6-8)	10-Feb-02	--	0.0346	--	0.0019	0.0048 U	0.0146	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.0048 U	0.00096 U	0.0048 U	--	0.0048 U	--	0.005 UJ	0.0048 U	--	0.0048 U	0.00096 U	0.0048 U	0.0048 U	0.0048 U	--	--	0.00096 U
SPR-1	SB (8-10)	12-Feb-02	--	0.012 U	--	0.339	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.0025 U	0.012 U	--	0.012 U	--	0.0134 UJ	0.012 U	--	0.012 U	0.0025 U	0.012 U	0.012 U	0.012 U	--	--	0.0025 U
SPR-2A	SB (8-10)	13-Feb-02	--	0.98 U	--	10.8	0.98 U	0.98 U	0.98 U	0.98 U	2.55	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	7.11	0.98 U	--	0.98 U	--	0.305 J	5.04	--	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	--	--	0.98 U
SPR-3	SB (4-6)	15-Feb-02	--	0.54 U	--	0.22 U	1.42	0.54 U	0.54 U	0.54 U	3.62	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	--	0.54 U	--	1.32	0.54 U	--	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	--	--	0.54 U
SPR-4A	SB (8-10)	16-Feb-02	--	1.1 U	--	3.11	1.1 U	1.1 U	1.1 U	1.1 U	0.644 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	13.3	1.1 U	--	1.1 U	--	1.1 U	3.94	--	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	--	--	1.1 U
SPR-4B	SB (4-6)	17-Feb-02	--	0.0506	--	7.67	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0072 J	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0031 J	0.0077 U	--	0.0077 U	--	0.0077 U	0.0077 U	--	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	--	--	0.0077 U
SPR-4C	SB (4-6)	18-Feb-02	--	0.36 U	--	13.1	0.36 U	0.36 U	0.36 U	0.36 U	0.242 J	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.211 J	0.36 U	--	0.36 U	--	0.36 U	0.36	--	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	--	--	0.36 U
SPR-5	SB (2-4)	19-Feb-02	--	0.0082 U	--	0.167	0.0082 U	0.0082 U	0.0082 U	0.108	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0072	0.0082 U	--	0.0082 U	--	0.0084 UJ	0.0082 U	--	0.0082 U	0.0016 U	0.0082 U	0.0082 U	0.0082 U	--	--	0.0211
ST-3	SB (4-6)	25-Feb-02	--	0.0569	--	0.0016	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0015 U	0.0077 U	--	0.0077 U	--	0.0172 UJ	0.0077 U	--	0.0077 U	0.0015 U	0.0077 U	0.0077 U	0.0077 U	--	--	0.0015 U
TLN-3	SB (2-4)	28-Feb-02	--	0.0407 J	--	0.0026 J	0.005 U	0.005 U	0.005 U	0.005 U	0.0025 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	0.005 U	--	0.0069 UJ	0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	--	0.005 U
TLN-5	SB (4-6)	29-Sep-01	--	0.192	--	0.001 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.001 U	0.0051 U	--	0.0051 U	--	0.0151 UJ	0.0051 U	--	0.0051 U	0.001 U	0.0051 U	0.0051 U	0.0051 U	--	--	0.001 U
TLS-10	SB (8-10)	4-Mar-02	--	0.62 U	--	1.71	0.62 U	0.62 U	0.62 U	0.62 U	1.78	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	--	0.62 U	--	0.62 U	0.62 U	--	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	--	--	0.62 U
TLS-2	SB (6-8)	6-Mar-02	--	0.101	--	0.0036 U	0.018 U	0.0283	0.018 U	0.018 U	0.0501	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U	0.0036 U	0.018 U	--	0.018 U	--	0.018 U	0.018 U	--	0.018 U	0.0036 U	0.018 U	0.018 U	0.018 U	--	--	0.0072 U
TLS-4	SB (8-10)	8-Mar-02	--	0.261	--	0.0184	0.0681	0.0381	0.01 U	0.01 U	0.0785	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.002 U	0.01 U	--	0.01 U	--	0.0307	0.01 U	--	0.01 U	0.0052	0.01 U	0.01 U	0.01 U	--	--	0.0068
TLS-5	SB (8-10)	9-Mar-02	--	0.0706 J	--	0.0031	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0764	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.002 U	0.0098 U	--	0.0098 U	--	0.0161 UJ	0.0098 U	--	0.0098 U	0.002 U	0.0098 U	0.0098 U	0.0098 U	--	--	0.0039 U
TLS-6	SB (3-5)	10-Mar-02	--	0.0053 U	--	0.0011 U	0.0053 U	0.0024 J	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0053 U	0.0011 U	0.0053 U	--	0.0053 U	--	0.0053 UJ	0.0053 U	--	0.0053 U	0.0011 U	0.0053 U	0.0053 U	0.0053 U	--	--	0.0021 U
TLS-8	SB (6-8)	12-Mar-02	--	0.0601	--	0.0021 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.0021 U	0.011 U	--	0.011 U	--	0.011 UJ	0.011 U	--	0.011 U	0.0021 U	0.011 U	0.011 U	0.011 U	--	--	0.0043 U

Notes:

SS = Surface soil (0 to 2 ft bgs)
SB = Subsurface soil (2 to 10 ft bgs)
mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; method detection limit (MDL) presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables

Table A-2.1
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA [1]
Overburden Groundwater - Inorganics
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Overburden Monitoring Wells	Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Methyl Mercury	Nickel	Potassium	Selenium	Sodium	Vanadium	Zinc	Cyanide
DISSOLVED (FILTERED) RESULTS [2]																								
MW-6S	22-Jan-07	200 U	6 U	8 U	200 U	1 U	4 U	211,000	10 U	50 U	25 U	4,160	3 U	35,300	2,270	0.2 U	--	40 U	34,600 J	10 U	1,090,000	50 U	20 U	--
MW-7S	1-Feb-07	200 U	60 U	8 U	200 U	10 U	4 U	718,000	10 U	50 U	25 U	11,200	3 U	57,800	179	0.2 U	--	40 U	74,300 J	100 U	5,040,000 J	50 U	119	--
MW-8S	2-Feb-07	2,000 U	60 U	80 U	2,000 U	10 U	40 U	1,940,000	100 U	500 U	250 U	7,270	30 U	104,000	1,320 J	0.2 U	--	400 U	217,000 J	100 U	29,600,000 J	500 U	200 U	--
MW-9S	7-Feb-07	200 U	6 U	58	200 U	1 U	4 U	527,000	10 U	50 U	25 U	9,940	3 U	34,600	309	0.2 U	--	40 U	35,100	10 U	1,210,000	50 U	43	--
MW-10S	2-Feb-07	200 U	6 U	61 J	200 U	5 U	4 U	764,000	10 U	50 U	25 U	29,600	3 U	54,600	986	0.2 U	--	40 U	26,700 J	10 U	1,480,000 J	50 U	358	--
MW-11S	30-Jan-07	200 U	6 UJ	8 UJ	1,080	1 U	4 U	21,300	10 U	50 U	25 U	9,380	3 U	5,000 U	421	1.4	--	40 U	9,690 J	10 U	20,700	50 U	20 U	--
MW-12S	6-Feb-07	200 U	60 U	588 J	852	10 U	4 U	443,000	52	50 U	25 U	846	30 U	95,100	162 J	0.2 U	--	63	795,000 J	100 U	12,300,000 J	58	20 U	--
MW-13S	12-Feb-07	200 U	6 U	32	200 U	1 U	4 U	443,000	10 U	50 U	25 U	9,190	3 U	12,800	658	0.25 J	--	40 U	324,000 J	10 U	916,000 J	50 U	20 U	--
MW-14S	18-Jan-07	200 U	6 U	100	200 U	1 U	4 U	5,950	10 U	50 U	25 U	2,120	3 U	5,000 U	622 J	0.39	--	40 U	5,000 U	10 U	122,000 J	50 U	20 U	--
MW-15S	9-Feb-07	200 U	60 UJ	80 UJ	390 J	10 U	11	553,000	100 U	191	25 U	289,000	30 U	333,000	201,000	0.2 U	--	99 J	41,200 J	100 U	1,410,000	50 U	20 U	--
MW-16S	18-Jan-07	200 U	6 U	12	200 U	1 U	4 U	22,700	22	50 U	25 U	100 U	3 U	10,100	15 U	0.2 U	--	40 U	30,400 J	10 U	271,000	50 U	20 U	--
MW-17S	10-Jan-07	200 U	6 U	75	200 U	1 U	4 UJ	117,000	10 U	50 U	25 U	2,680 J	3 U	24,900	451	0.54	--	40 U	5,840 J	10 U	105,000	50 U	20 U	--
MW-18S	12-Feb-07	400 UJ	12 UJ	263 J	736 J	2 UJ	8 UJ	272,000 J	211 J	100 UJ	50 UJ	3,520 J	6 UJ	181,000 J	4,590 J	0.2 UJ	--	80 UJ	130,000 J	20 UJ	3,110,000 J	120 J	40 UJ	--
MW-19S	7-Feb-07	201	6 U	8 U	200 U	1 U	4 U	5,000 U	12	50 U	25 U	406 J	3 U	7,320	27	1.1	--	40 U	17,200	10 U	522,000	50 U	20 U	--
MW-20S	16-Jan-07	200 U	6 U	92	200 U	1 U	4 U	37,100	10 U	50 U	25 U	2,200 J	3 U	8,910	556	0.2 U	--	40 U	5,240 J	10 U	51,700 J	50 U	123	--
MW-21S	19-Jan-07	200 U	6 UJ	44	15,300	1 U	4 U	59,600	13	50 U	25 U	210,000 J	4.5 J	57,400	1,080 J	0.2 U	--	40 U	208,000 J	10 U	2,100,000	50 U	20 U	--
MW-22S	9-Feb-07	200 U	6 UJ	16 J	200 U	1 U	4 U	64,900	10 U	50 U	25 U	124	3 U	12,400	15 U	0.2 U	--	40 U	66,600	10 U	193,000	50 U	20 U	--
MW-23S	20-Jan-07	200 U	6 UJ	21	200 U	1 U	4 U	28,000	10 U	50 U	25 U	3,260	3 U	9,800	4,460	7.9	--	40 U	5,520 J	10 U	361,000	50 U	20 U	--
MW-24S	8-Feb-07	218	6 UJ	15	200 U	1 UJ	4 U	128,000	10 U	50 U	25 U	100 U	3 U	9,100 J	54	164	--	40 U	9,020	10 U	118,000	50 U	20 U	--
MW-26S	13-Feb-07	200 U	6 U	204	200 U	1 U	4 U	44,500	10 U	50 U	25 U	4,020	3 U	18,900	1,330	0.45	--	190	25,200	10 U	978,000	50 U	20 U	--
TOTAL (UNFILTERED) RESULTS [2]																								
MW-6S	22-Jan-07	200 U	6 U	8 U	200 U	1 U	4 U	204,000	10 U	50 U	25 U	3,980	3 U	33,600	2,150	0.2 U	--	40 U	33,200 J	10 U	1,040,000	50 U	20 U	10 U
MW-7S	1-Feb-07	200 U	60 U	8 U	200 U	10 U	23	703,000	10 U	50 U	25 U	17,500	3 U	57,700	178	0.2	--	40 U	50,000 UJ	10 U	4,830,000 J	50 U	1,690	10 U
MW-8S	2-Feb-07	2,000 U	60 U	80 U	2,000 U	10 U	40 U	1,810,000	100 U	500 U	250 U	7,550	30 U	105,000	1,200 J	0.2 U	--	400 U	211,000 J	100 U	28,600,000 J	500 U	222	10 U
MW-9S	7-Feb-07	200 U	6 U	67	200 U	1 U	5.9	566,000	10 U	50 U	25 U	10,900	3 UJ	36,300	310	0.2 U	--	40 U	38,000	10 U	1,350,000	50 U	79	10 U
MW-10S	2-Feb-07	200 U	6 U	55 J	200 U	5 U	4 U	805,000	10 U	50 U	25 U	31,200	3 U	57,500	1,040	0.29	6.4E-04	40 U	28,700 J	10 U	1,540,000 J	50 U	396	10 U
MW-11S	30-Jan-07	200 U	6 J	8 UJ	1,130	1 U	4 U	21,500	10 U	50 U	25 U	9,920 J	3 U	5,000 U	426	6.7	0.0303	40 U	10,200 J	10 U	23,400	50 U	20 U	10 U
MW-12S	6-Feb-07	202	6 U	192 J	884	10 U	4 U	446,000	52	50 U	25 U	1,000	30 U	92,800	130 J	1.2	--	63	821,000 J	10 U	--	55	20 U	77
MW-13S	12-Feb-07	200 U	6 U	37	200 U	1 U	4 U	439,000	10 U	50 U	25 U	9,230	3 U	12,500	647	0.88 J	--	40 U	315,000 J	10 U	895,000 J	50 U	20 U	10 U
MW-14S	18-Jan-07	2,360	6 U	98	200 U	1 U	4 U	5,550	10 U	50 U	25 U	3,260	3.1	5,000 U	578 J	7.4	--	40 U	5,000 U	10 U	110,000 J	50 U	69	10 U
MW-15S	9-Feb-07	200 U	60 UJ	80 U	319 J	10 UJ	13	565,000	100 U	190	25 U	346,000	30 U	320,000	219,000	0.2 U	--	40 UJ	31,100 J	100 U	1,410,000	50 U	20 U	10 U
MW-16S	18-Jan-07	200 U	6 U	12	200 U	1 U	4 U	23,300	23	50 U	25 U	103	3 U	10,400	15 U	0.31	--	40 U	30,300 J	10 U	352,000	50 U	20 U	10 U
MW-17S	10-Jan-07	200 U	6 U	78	200 U	1 U	4 UJ	116,000	10 U	50 U	25 U	3,730 J	3 U	24,400	428	2.9	--	40 U	5,340 J	10 U	101,000	50 U	20 U	20
MW-18S	12-Feb-07	400 UJ	12 UJ	275 J	744 J	2 UJ	8 UJ	271,000 J	233 J	100 UJ	50 UJ	7,550 J	8.2 J	185,000 J	4,560 J	0.66 J	--	80 UJ	134,000 J	20 UJ	3,180,000 J	136 J	44 J	44 J
MW-19S	7-Feb-07	251	6 U	8 U	200 U	1 U	4 U	5,000 U	18	50 U	25 U	730	3 UJ	7,150	28	1.1	--	40 U	18,000	10 U	567,000	50 U	20 U	10 U
MW-20S	16-Jan-07	200 U	6 U	89	200 U	1 U	4 U	38,300	10 U	50 U	25 U	2,190 J	3 U	8,890	560	0.2 U	--	40 U	5,060 J	10 U	50,400 J	50 U	132	10 U
MW-21S	19-Jan-07	329	6 UJ	42	14,200	1 U	4 U	61,100	26	50 U	25 U	189,000 J	3.4 J	57,600	1,120 J	0.2 U	--	40 U	200,000 J	10 U	1,970,000	50 U	20 U	10 U
MW-22S	9-Feb-07	200 U	6 UJ	14 J	200 U	1 U	4 U	63,700	10 U	50 U	25 U	218	3 U	12,600	15 U	0.2 U	--	40 U	68,000	10 U	198,000	50 U	20 U	10 U
MW-23S	20-Jan-07	1,830	6 UJ	25	200 U	1 U	4 U	28,400	11	50 U	40	4,580	9.7	10,200	4,220	27	--	40 U	7,070 J	10 U	353,000	50 U	20 U	10 U
MW-24S	8-Feb-07	322	6 UJ	17	200 U	1 UJ	4 U	129,000	10 U	50 U	25 U	103	3 U	6,470 J	28	233	168	40 U	9,410	10 U	134,000	50 U	20 U	10 U
MW-26S	12-Feb-07	485	6 U	251	200 U	1 U	4 U	46,000	10 U	50 U	25 U	7,530	3 U	17,700	1,400	2.6	--	57	23,800	11	974,000	50 U	20 U	--

Notes:
1. If a constituent was detected in either unfiltered (total) or filtered (dissolved) samples, it is included in the table.
2. The risk characterization was conducted using total (unfiltered) data.
µg/L = micrograms per liter
U = Non-detect value; MDL presented
J = Estimated value

ATTACHMENT A
Supplemental Data Tables

Table A-2.2
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Overburden Groundwater - Polychlorinated Biphenyls
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

No Polychlorinated Biphenyls Detected in Groundwater

ATTACHMENT A
Supplemental Data Tables

Table A-2.3
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Overburden Groundwater - Dioxins
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Overburden Monitoring Wells	Date	Dioxins (µg/L)							Dioxin TEQ
		1,2,3,4,6,7,8-HPCDD	1,2,3,4,7,8-HXCDD	1,2,3,6,7,8-HXCDD	1,2,3,7,8,9-HXCDD	1,2,3,7,8-PECDD	2,3,7,8-TCDD	OCDD	
	TEQ:	0.01	0.1	0.1	0.1	1	1	0.0003	
MW-6S	22-Jan-07	--	--	--	--	--	--	--	--
MW-7S	1-Feb-07	--	--	--	--	--	--	--	--
MW-8S	2-Feb-07	--	--	--	--	--	--	--	--
MW-9S	7-Feb-07	--	--	--	--	--	--	--	--
MW-10S	2-Feb-07	--	--	--	--	--	--	--	--
MW-11S	30-Jan-07	--	--	--	--	--	--	--	--
MW-12S	6-Feb-07	--	--	--	--	--	--	--	--
MW-13S	12-Feb-07	--	--	--	--	--	--	--	--
MW-14S	18-Jan-07	--	--	--	--	--	--	--	--
MW-15S	9-Feb-07	--	--	--	--	--	--	--	--
MW-16S	18-Jan-07	--	--	--	--	--	--	--	--
MW-17S	10-Jan-07	--	--	--	--	--	--	--	--
MW-18S	12-Feb-07	--	--	--	--	--	--	--	--
MW-19S	7-Feb-07	--	--	--	--	--	--	--	--
MW-20S	16-Jan-07	--	--	--	--	--	--	--	--
MW-21S	19-Jan-07	--	--	--	--	--	--	--	--
MW-22S	9-Feb-07	--	--	--	--	--	--	--	--
MW-23S	20-Jan-07	--	--	--	--	--	--	--	--
MW-24S	8-Feb-07	0.0000555	0.0000118	0.00000986	0.0000072	0.0000114	0.00000381	0.00114	1.90E-05

Notes:
Dioxins were converted to a 2,3,7,8-TCDD equivalent concentration using the Toxic Equivalency Factors presented in the table and summed to calculate a Dioxin Toxic Equivalency Quotient (TEQ). Non-detect results were summed using one-half the method detection limit (MDL).

µg/L = micrograms per liter

ATTACHMENT A
Supplemental Data Tables

Table A-2.4
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Overburden Groundwater - Furans
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Overburden Monitoring Wells	Date	Furans (µg/L)										Furan TEQ
		1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDF	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDF	OCDF	
		0.01	0.01	0.1	0.1	0.1	0.03	0.1	0.3	0.1	0.0003	
MW-6S	22-Jan-07	--	--	--	--	--	--	--	--	--	--	--
MW-7S	1-Feb-07	--	--	--	--	--	--	--	--	--	--	--
MW-8S	2-Feb-07	--	--	--	--	--	--	--	--	--	--	--
MW-9S	7-Feb-07	--	--	--	--	--	--	--	--	--	--	--
MW-10S	2-Feb-07	--	--	--	--	--	--	--	--	--	--	--
MW-11S	30-Jan-07	--	--	--	--	--	--	--	--	--	--	--
MW-12S	6-Feb-07	--	--	--	--	--	--	--	--	--	--	--
MW-13S	12-Feb-07	--	--	--	--	--	--	--	--	--	--	--
MW-14S	18-Jan-07	--	--	--	--	--	--	--	--	--	--	--
MW-15S	9-Feb-07	--	--	--	--	--	--	--	--	--	--	--
MW-16S	18-Jan-07	--	--	--	--	--	--	--	--	--	--	--
MW-17S	10-Jan-07	--	--	--	--	--	--	--	--	--	--	--
MW-18S	12-Feb-07	--	--	--	--	--	--	--	--	--	--	--
MW-19S	7-Feb-07	--	--	--	--	--	--	--	--	--	--	--
MW-20S	16-Jan-07	--	--	--	--	--	--	--	--	--	--	--
MW-21S	19-Jan-07	--	--	--	--	--	--	--	--	--	--	--
MW-22S	9-Feb-07	--	--	--	--	--	--	--	--	--	--	--
MW-23S	20-Jan-07	--	--	--	--	--	--	--	--	--	--	--
MW-24S	8-Feb-07	0.000401	0.000127	0.000504	0.000137	0.0000621	0.000243	0.0000348	0.00017	0.00024	0.0012	1.62E-04

Notes:
Furans were converted to a 2,3,7,8-TCDD equivalent concentration using the Toxic Equivalency Factors presented in the table and summed to calculate a Furan Toxic Equivalency Quotient (TEQ). Non-detect results were summed using one-half the method detection limit (MDL).

µg/L = micrograms per liter

ATTACHMENT A
Supplemental Data Tables

Table A-2.5
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Overburden Groundwater - Pesticides
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Overburden Monitoring Wells	Date	Pesticides (µg/L)
		P,P'-DDD
MW-6S	22-Jan-07	0.0024 U
MW-7S	1-Feb-07	0.0024 U
MW-8S	2-Feb-07	0.0024 UJ
MW-9S	7-Feb-07	0.0024 U
MW-10S	2-Feb-07	0.003 U
MW-11S	30-Jan-07	0.0024 U
MW-12S	6-Feb-07	0.0024 UJ
MW-13S	12-Feb-07	0.0027 U
MW-14S	18-Jan-07	0.0025 U
MW-15S	9-Feb-07	0.0027 U
MW-16S	18-Jan-07	0.0024 U
MW-17S	10-Jan-07	**0.035 J**
MW-18S	12-Feb-07	0.0027 U
MW-19S	7-Feb-07	0.0024 U
MW-20S	16-Jan-07	0.0026 U
MW-21S	19-Jan-07	0.0024 U
MW-22S	9-Feb-07	0.0026 U
MW-23S	20-Jan-07	0.0024 U
MW-24S	8-Feb-07	0.0027 U

Notes:
µg/L = micrograms per liter
U = Non-detect value; MDL presented
J = Estimated value

ATTACHMENT A
Supplemental Data Tables

Table A-2.6
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Overburden Groundwater - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Overburden Monitoring Wells	Date	Semivolatile Organic Compounds (µg/L)																														
		1,1'-Biphenyl	1,2,4-Trichloro benzene	1,2- Dichloro benzene	1,3- Dichloro benzene	1,4- Dichloro benzene	2,4,5-Trichloro phenol	2,4,6-Trichloro phenol	2,4- Dichloro phenol	2,4-Dimethyl phenol	2-Chloro naphth alene	2-Chloro phenol	2-Methyl naphth alene	2-Methyl phenol	4-Chloro aniline	Acenaph thene	Acenaph thylene	Anthracene	Benzo (a) Anthracene	Bis(2-Ethylhexyl) Phthalate	Carbazole	Chrysene	Dibenzo furan	Fluor anthene	Fluorene	Hexachloro benzene	Naphth alene	Nitro benzene	Penta chloro phenol	Phen anthrene	Phenol	Pyrene
MW-6S	22-Jan-07	0.33 U	0.66 J	3,060	193	392	1.9 U	1.3 U	1.6 U	1.6 U	0.98 U	26.1	0.41 U	1.4 U	1.6 J	0.017 U	0.0095 U	0.021 U	0.0068 U	0.66 U	0.36 U	0.017 U	0.34 U	0.009 U	0.02 U	0.02 U	1.18	0.42 U	0.3 U	0.021 U	1.1 J	0.014 U
MW-7S	1-Feb-07	0.37 U	0.16 U	0.2 U	0.32 U	0.24 U	2.2 U	1.4 U	1.8 U	1.8 U	1.1 U	1.1 U	0.46 U	1.5 U	0.45 U	0.019 U	0.011 U	0.304	0.0076 U	0.74 U	0.41 U	0.019 U	0.39 U	0.544	0.023 U	0.022 U	0.029 U	0.47 U	0.34 U	0.024 U	0.56 U	0.518
MW-8S	2-Feb-07	0.36 U	0.16 U	0.2 U	0.32 U	0.24 U	2.1 U	1.4 U	1.7 U	1.8 U	1.1 U	1 U	0.44 U	1.5 U	0.43 U	0.019 U	0.01 U	0.023 U	0.0074 U	0.72 U	0.4 U	0.018 U	0.37 U	0.0098 U	0.022 U	0.022 U	0.028 U	0.46 U	0.33 U	0.023 U	0.54 U	0.015 U
MW-9S	7-Feb-07	0.33 U	0.16 U	0.2 U	0.32 U	0.24 U	1.9 U	1.3 U	1.6 U	1.6 U	0.98 U	0.95 U	0.41 U	1.4 U	0.4 U	0.017 U	0.0095 U	0.021 U	0.0068 U	0.66 U	0.36 U	0.017 U	0.34 U	0.009 U	0.02 U	0.02 U	0.026 U	0.42 U	0.3 U	0.021 U	0.5 U	0.014 U
MW-10S	2-Feb-07	0.34 U	0.16 U	0.49 J	0.32 U	0.24 U	2 U	1.3 U	1.6 U	1.7 U	1 U	1 U	0.43 U	1.4 U	0.42 U	0.018 U	0.01 U	0.022 U	0.0072 U	0.7 U	0.38 U	0.018 U	0.36 U	0.0095 U	0.021 U	0.021 U	0.027 U	0.44 U	0.32 U	0.022 U	0.52 U	0.015 U
MW-11S	30-Jan-07	0.33 U	2.4 J	48.3	63.4	123	1.9 U	1.3 U	1.6 U	1.6 U	0.98 U	2.7 J	0.41 U	1.4 U	8.3	0.311	0.0095 U	0.777	0.0068 U	0.66 U	0.36 U	0.017 U	0.34 U	0.009 U	0.02 U	0.02 U	2.71	0.42 U	0.3 U	0.021 U	0.5 U	0.014 U
MW-12S	6-Feb-07	0.82 J	13.1	93.7	125	80.9	2.4 U	1.6 U	6.3	3.9 J	1.2 U	11	0.51 U	2.5 J	1,920	13.1	0.012 U	1.4	0.775	0.83 U	3.9	0.469	7.1	11.1	3.6	0.025 U	79.7	0.52 U	0.38 U	27	0.62 U	4.5
MW-13S	12-Feb-07	3.2	0.16 U	10.9	12.6	6.9	2.1 U	1.4 U	1.7 U	1.8 U	1.1 U	1.1 U	0.45 U	1.5 U	4,220	52.8	0.737	1.94	0.0076 U	0.73 U	15.6	0.019 U	16.2	1.81	5.35	0.022 U	2.1	0.47 U	0.33 U	1.69	0.55 U	0.969
MW-14S	18-Jan-07	0.33 U	0.16 U	0.2 U	0.32 U	0.24 U	1.9 U	1.3 U	1.6 U	1.6 U	0.98 U	0.95 U	0.41 U	1.4 U	0.4 U	0.017 U	0.0095 U	0.021 U	0.0068 U	0.66 U	0.36 U	0.017 U	0.34 U	0.009 U	0.02 U	0.02 U	0.026 U	0.42 U	0.3 UJ	0.021 U	0.5 U	0.014 U
MW-15S	9-Feb-07	0.36 U	0.16 U	3.5	0.32 U	0.8 J	2.1 U	1.4 U	1.7 U	1.8 U	1.1 U	1 U	0.44 U	1.5 U	0.43 U	0.841	0.01 U	4.49	0.368	1.1 J	1.4 J	0.213 J	0.37 U	0.993	0.738	0.022 U	0.028 U	0.46 U	0.33 U	1.25	0.54 U	0.736
MW-16S	18-Jan-07	0.33 U	0.4 U	0.51 U	0.79 U	0.6 U	1.9 U	1.3 U	1.6 U	1.6 U	0.98 U	0.95 U	0.41 U	1.4 U	0.4 U	0.017 U	0.0095 U	0.021 U	0.0068 U	0.66 U	0.36 U	0.017 U	0.34 U	0.009 U	0.02 U	0.02 U	0.026 U	0.42 U	0.3 UJ	0.021 U	0.5 U	0.014 U
MW-17S	10-Jan-07	2.2 J	32.3	70.3	2.5	9.1	8.6 J	2.2 J	6.4 J	9.6 J	1.1 UJ	4.3 J	0.44 U	5.1 J	4,460 J	11.9	0.01 U	2.13	0.0074 U	0.72 U	1.6 J	0.018 U	7.2 J	1.58	8.21	0.066 U	11.4	55 J	0.43 UJ	15.3	0.54 U	0.647
MW-18S	12-Feb-07	0.33 U	0.8 U	123	10.8	15.9	1.9 U	1.3 U	1.6 U	3.2 J	44.6	0.95 U	0.41 U	1.4 U	3.4 J	0.657	0.0095 U	13.5	0.266	0.66 U	6.2	0.017 U	0.34 U	0.285	0.516	0.02 U	263	0.42 U	0.3 U	0.929	0.5 U	0.234
MW-19S	7-Feb-07	0.33 U	0.16 U	0.2 U	0.32 U	0.24 U	1.9 U	1.3 U	1.6 U	1.6 U	0.98 U	0.95 U	0.41 U	1.4 U	0.4 U	0.017 U	0.0095 U	0.021 U	0.0068 U	0.66 U	0.36 U	0.017 U	0.34 U	0.009 U	0.02 U	0.02 U	0.026 U	0.42 U	0.3 U	0.021 U	0.5 UJ	0.014 U
MW-20S	16-Jan-07	0.35 U	0.16 U	0.2 U	0.32 U	0.24 U	2.1 U	1.3 U	1.7 U	1.7 U	1 U	1 U	0.43 U	1.4 U	8.9	0.018 U	0.01 U	0.022 U	0.0072 U	0.7 U	0.39 U	0.018 U	0.37 U	0.0096 U	0.021 U	0.021 U	0.027 U	0.45 U	0.32 U	0.022 U	0.53 U	0.015 U
MW-21S	19-Jan-07	1.3 J	4 U	159	199	183	1.9 U	1.3 U	11.7	1.6 U	0.98 U	5	0.91 J	1.4 U	3,970	0.017 U	0.0095 U	0.632	0.0068 U	0.66 U	0.36 U	0.017 U	0.34 U	0.009 U	0.02 U	0.02 U	454	0.42 U	0.3 U	0.422	0.5 U	0.014 U
MW-22S	9-Feb-07	0.33 U	0.16 U	0.2 U	0.32 U	0.24 U	1.9 U	1.3 U	1.6 U	1.6 U	0.98 U	0.95 U	0.41 U	1.4 U	0.4 U	0.371 J	0.0095 U	0.021 U	0.0068 U	0.66 U	0.36 U	0.017 U	0.34 U	0.009 UJ	0.274	0.02 U	0.026 UJ	0.42 U	0.3 U	0.021 UJ	0.5 U	0.014 U
MW-23S	20-Jan-07	0.35 U	0.16 U	0.9 J	0.32 U	0.24 U	2.1 U	1.3 U	1.7 U	1.7 U	1 U	1 U	0.43 U	1.4 U	0.42 U	0.428	0.01 U	0.41	0.0072 U	0.7 U	0.39 U	0.018 U	0.37 U	0.229	0.021 U	0.021 U	0.027 U	0.45 U	0.32 U	0.022 U	0.53 U	0.015 U
MW-24S	8-Feb-07	43.5	285	4,220	184	582	2.1 U	1.4 U	5.5	1.8 U	7.9	1 U	0.44 U	1.5 U	10.4	3.35	0.01 U	1.96	0.0074 U	1.4 J	143	0.018 U	2.4 J	0.312	1.92	1	561	0.46 U	1.87	2.5	0.54 U	0.211 J

Notes:
µg/L = micrograms per liter
U = Non-detect value; MDL presented
J = Estimated value

ATTACHMENT A
Supplemental Data Tables

Table A-2.7
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
Overburden Groundwater - Volatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Overburden Monitoring Wells	Date	Volatile Organic Compounds (µg/L)																						
		1,1-Dichloro ethane	1,2-Dichloro ethane	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Carbon Disulfide	Chloro benzene	Chloroform	Cis-1,2-Dichloro ethene	Ethyl benzene	Isopropyl benzene	Methyl cyclohexane	Methylene Chloride	Styrene	Tert-Butyl Methyl Ether	Tetrachloro ethylene (PCE)	Toluene	Trans-1,2-Dichloro ethene	Trichloro ethene (TCE)	Vinyl Chloride	M,P-Xylene (sum of isomers)	O-xylene	Xylenes, Mixed
MW-6S	22-Jan-07	0.47 U	0.59 U	2.1 U	4.8 U	198	0.41 U	16200	0.43 U	1.1 J	0.4 U	0.4 U	0.36 U	0.53 U	0.32 U	10.5	0.55 U	0.82 J	0.84 U	0.58 U	0.58 U	0.84 U	0.82 J	0.82 J
MW-7S	1-Feb-07	0.23 U	0.29 U	1.1 U	2.4 UJ	0.21 U	0.21 U	0.22 U	0.22 U	0.18 U	0.2 U	0.2 U	0.18 U	0.27 U	0.16 U	0.31 U	0.28 U	0.2 U	0.42 U	0.29 U	0.29 U	0.42 U	0.31 U	0.31 U
MW-8S	2-Feb-07	0.23 U	1.8	1.1 U	2.4 UJ	0.51 J	0.21 U	0.22 U	0.22 U	0.18 U	0.2 U	0.2 U	0.18 U	0.27 U	0.16 U	0.31 U	0.28 U	0.2 U	0.42 U	0.29 U	0.29 U	0.42 U	0.31 U	0.31 U
MW-9S	7-Feb-07	0.23 U	0.29 U	1.1 U	2.4 UJ	0.21 U	0.21 U	0.22 U	0.22 U	0.18 U	0.2 U	0.2 U	0.18 U	0.27 U	0.16 U	0.45 J	0.28 U	0.2 U	0.42 U	0.29 U	0.29 U	0.42 U	0.31 U	0.31 U
MW-10S	2-Feb-07	0.23 U	0.29 U	1.1 U	2.4 UJ	0.21 U	0.21 U	1.4	0.22 U	0.18 U	0.2 U	0.2 U	0.18 U	0.27 U	0.16 U	1	0.28 U	0.2 U	0.42 U	0.29 U	0.29 U	0.42 U	0.31 U	0.31 U
MW-11S	30-Jan-07	0.23 U	0.29 U	1.1 U	2.4 UJ	17.9	0.21 U	813	0.22 U	0.18 U	0.9 J	0.2 U	0.18 U	0.27 U	0.16 U	0.31 U	0.28 U	2.4	0.42 U	0.52 J	0.29 U	3.3	1.1	4.4
MW-12S	6-Feb-07	0.23 U	0.29 U	1.1 U	2.4 U	101	2.6	179	0.22 U	0.18 U	4.4	0.42 J	0.18 U	0.27 U	0.16 U	0.31 U	0.28 U	6.2	0.42 U	0.29 U	0.29 U	2.6	1.5	4
MW-13S	12-Feb-07	0.23 U	0.29 U	1.1 U	2.4 U	20.7	0.21 U	91.5	0.92 J	3	6.3	1.9 J	0.18 U	0.57 J	0.16 U	0.31 U	0.28 U	0.2 U	0.85 J	0.41 J	0.71 J	3.2	5.9	9.1
MW-14S	18-Jan-07	0.23 U	0.29 U	1.1 U	2.4 U	0.21 U	0.21 U	0.22 U	0.22 U	0.18 U	0.2 U	0.2 U	0.18 U	0.27 U	0.16 U	0.31 U	0.28 U	0.2 U	0.42 U	0.29 U	0.29 U	0.42 U	0.31 U	0.31 U
MW-15S	9-Feb-07	0.23 U	0.29 U	1.1 U	2.4 U	8.4	0.21 U	4	0.22 U	0.8 J	0.2 U	0.2 U	0.18 U	0.27 U	0.16 U	0.31 U	0.28 U	0.2 U	0.42 U	0.29 U	0.29 U	0.42 U	0.31 U	0.31 U
MW-16S	18-Jan-07	0.58 U	0.73 U	2.7 U	6.1 U	288	0.52 U	0.56 U	0.54 U	0.45 U	30.4	0.5 U	0.46 U	0.66 U	4 J	0.76 U	0.69 U	0.5 U	1.1 U	0.72 U	0.72 U	1 U	0.76 U	0.76 U
MW-17S	10-Jan-07	0.23 U	0.29 U	2.9 J	22.2	155	0.21 U	164	3.5	0.18 U	2.8	0.2 U	0.97 J	1.1 J	0.16 U	0.31 U	0.28 U	137	0.42 U	0.29 U	0.29 U	42.6	3.9	46.5
MW-18S	12-Feb-07	1.2 U	1.5 U	5.3 U	12 U	5	1.4 J	36.6	1.1 U	0.89 U	1 U	1 U	0.91 U	1.3 U	0.79 U	1.5 U	1.4 U	1 U	2.1 U	1.4 U	1.4 U	2.2 J	1.5 U	3.1 J
MW-19S	7-Feb-07	0.23 U	0.29 U	1.1 U	2.4 UJ	8.5	0.21 U	0.22 U	0.22 U	0.18 U	0.2 U	0.2 U	0.18 U	0.27 U	0.16 U	3.8	0.28 U	0.2 U	0.42 U	0.29 U	0.29 U	0.42 U	0.31 U	0.31 U
MW-20S	16-Jan-07	0.23 U	0.29 U	1.1 U	2.4 UJ	0.21 U	0.21 U	2.9	0.22 U	0.18 U	0.2 U	0.2 U	0.18 U	0.27 U	0.16 U	0.31 U	0.28 U	0.2 U	0.42 U	0.29 U	0.29 U	0.42 U	0.31 U	0.31 U
MW-21S	19-Jan-07	5.8 U	7.3 U	27 U	61 U	848	5.2 U	8890	5.4 U	4.5 U	9.7 J	5 U	4.6 U	6.6 U	4 U	7.6 U	6.9 U	58.9	11 U	7.2 U	7.2 U	37.3	7.6 U	37.3
MW-22S	9-Feb-07	0.38 J	0.29 U	1.1 U	2.4 UJ	1.3	0.21 U	0.22 U	0.22 U	0.87 J	0.2 U	0.2 U	0.18 U	0.27 U	0.16 U	0.31 U	0.28 U	0.2 U	0.42 U	0.29 U	0.65 J	0.42 U	0.31 U	0.31 U
MW-23S	20-Jan-07	2.6	0.29 U	1.1 U	2.4 UJ	20	0.21 U	0.22 U	0.22 U	0.34 J	0.2 U	0.2 U	0.18 U	0.27 U	0.16 U	0.31 U	0.28 U	0.2 U	0.42 U	0.41 J	0.29 U	0.42 U	0.31 U	0.31 U
MW-24S	8-Feb-07	2.3 U	2.9 U	11 U	24 U	120	2.1 UJ	1160	2.2 U	1.8 U	15.4	2 U	1.8 U	1960	1.6 U	3.1 U	6.9 J	26.4	4.2 UJ	2.9 U	2.9 U	114	14.4	128

Notes:
µg/L = micrograms per liter
U = Non-detect value; MDL presented
J = Estimated value

ATTACHMENT A
Supplemental Data Tables

Table A-3.1
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Inorganics
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Inorganics (mg/kg)																									
			Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Methyl Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide
BSL-1	0.0-1.0	20-Sep-01	6,480 J	1.2 J	7.5	12,400 J	0.62 U	0.68	27,700	13.4	--	7	28.6	11,400	83.5	1,660	58.1	364	--	9.1	620 U	1.2 U	1.2 U	1,110	1.2 U	22	47.5	1.3 U
BSL-2	0.0-1.0	21-Sep-01	17,600	1.5 UJ	9.6	10,900	0.95	6.4	2,370	21.4	--	11.6	40.4	23,300 J	85.8	1,770 J	196	141	--	19.8 J	1,160	1.5 U	1.5 U	5,610	1.5 U	17.1	334	1.5 U
BSL-3	0.0-0.5	20-Sep-01	9,140 J	1.1 UJ	2.1	827 J	0.55	0.54 U	540 U	7.3	--	5.4 U	11.6	8,400	9.2	540 U	51.5	20.6	--	7.5	540 U	1.1 U	1.1 U	540 U	1.1 U	13.8	27.3	1.1 U
BSL-4	0.0-1.0	21-Sep-01	3,870	1.2 UJ	2.7	2,380	0.6 U	0.6 U	600 U	9.9	--	6 U	20.2	5,710 J	27.8	789 J	67.4	61.2	--	6.4 J	600 U	1.2 U	1.2 U	1,140	1.2 U	13.5	69.5	1.2 U
BSL-5	0.0-0.5	21-Sep-01	8,960	1.1 UJ	2.6	4,150	0.55 U	0.73	1,540	8.5	--	6.7	18.4	11,000 J	42.8	1,410 J	81.4	82.6	--	8.8 J	550 U	1.1 U	1.1 U	550 U	1.1 U	15.8	62.1	1.2 U
BSL-6	0.0-1.0	26-Sep-01	8,750	1.5 U	23.2	6,470	0.77 U	4.5	3,300	34.2	--	8.3	77.6	19,600	119	1,690	195	211	--	15.2	816	1.5 U	1.7	4,450	1.5 U	25.1	481	1.6 U
BSL-7	0.0-0.5	21-Sep-01	5,110	1.2 UJ	3.8	10,400	0.62 U	2.3	1,420	8.1	--	6.2 U	33.8	8,850 J	20.8	620 UJ	59.6	71.6	--	7.8 J	620 U	1.2 U	1.2 U	964	1.2 U	13.3	133	1.3 U
BSL-7 DUP	0.0-0.5	21-Sep-01	6,820	1.3 UJ	5.2	11,900	0.69	1.1	4,670	11.6	--	7.4	28.6	13,700 J	23.7	762 J	76.9	59.4	--	9.4 J	670 U	1.3 U	1.3 U	1,270	1.3 U	16.6	156	1.4 U
BSL-8	0.0-1.0	26-Sep-01	13,500 J	1.6 UJ	30.8	732	1	240	44,400 J	59.1	--	7.9 U	136	14,900	590	1,690	75.4	423	--	7.7	1,050	1.6 U	8.1	8,380	3.2 U	14.3	8,020	1.6 U
BSL-9	0.0-0.5	21-Sep-01	5,470	1.2 UJ	1.6	4,530	0.61 U	0.61 U	610 U	6.5	--	6.1 U	10.3	5,650 J	15.6	610 UJ	38.7	66.9	--	4.9 UJ	610 U	1.2 U	1.2 U	657	1.2 U	11.7	39.3	1.2 U
BSL-10	0.0-1.0	21-Sep-01	10,600	1.4 UJ	9.3	7,150	0.94	15.3	67,900	41.5	--	9	61.6	18,000 J	151	9,130 J	703	2,300	--	18.1 J	1,190	1.4 U	1.4 U	5,210	1.4 U	18.8	1,070	12
BSL-10 DUP	0.0-1.0	21-Sep-01	10,800	1.3 UJ	5.8	7,990	1.3	7.5	61,600	37.7	--	10	60.6	11,800 J	96.4	11,000 J	1,160	2,190	--	20.6 J	1,340	1.3 U	1.3 U	3,260	2.6 U	19	566	3.4
BSL-11	0.0-1.0	26-Sep-01	8,760 J	2.7 UJ	16.2	3,330	1.4 U	6.8	4,440 J	29.4	--	14 U	60.6	10,800	85.7	3,000	50.3	1,370	--	15.2	1,400 U	2.7 U	2.7 U	4,510	2.7 U	21	707	1.3 U
BSL-12	0.0-1.0	26-Sep-01	4,400 J	1.1 UJ	3.4	5,020	0.75	0.62	6,630 J	16.6	--	6.1	59.9	19,400	44.6	1,640	221	177	--	10.8	570 U	1.1 U	1.1	570 U	1.1 U	14.9	262	1.1 U
BSL-101	0.0-1.0	6-Dec-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,100 J	0.0172	--	--	--	--	--	--	--	--	--
CF-2	0.0-0.5	28-Aug-01	6,710 J	1.2 UJ	24.5	1,060 J	0.61 U	3.2	27,100	19.9	--	6.1 U	44.4	13,700 J	124	1,850	146	592	--	9.4	820 J	1.2 U	1.2 U	1,570	1.2 U	23.4	259	1.2 U
CF-3	0.0-0.5	28-Aug-01	14,900 J	1.5 UJ	63.3	5,850 J	0.74 U	5.8	2,000	50.1	--	7.4 U	74.5	23,400 J	475	4,860	132	24	--	15.5	3,690 J	1.5	1.5 U	3,570	1.5 U	32.7	610	1.6 U
CF-4	0.0-0.5	28-Aug-01	9,510 J	1.3 UJ	95.2	8,270 J	0.65 U	11.6	8,870	46.2	--	8.9	126	20,200 J	395	3,080	245	233	--	15.7	1,380 J	1.3	1.3 U	1,610	1.3 U	32.3	1,050	1.2 U
EC-1	0.0-1.0	21-Aug-01	4,080 J	1.1 UJ	2.1	373	0.55 U	0.55 U	1,280	11.2	--	5.5 U	17.3 J	7,260 J	25.4	--	101	1.2	--	7.3	558	1.1 U	1.1 U	550 U	1.1 U	12	43.8	1.1 U
EC-2	0.0-1.0	21-Aug-01	10,300 J	1.1 UJ	17.4	3,990	0.54 U	8	5,660	20.3	--	7.4	61.1 J	14,800 J	343	--	233	1.8	--	13.9	1,000	1.1 U	1.1 U	540 U	1.1 U	26	481	1.1 U
EC-3	0.0-1.0	21-Aug-01	8,780 J	1.1 UJ	9.3	632	0.54 U	1	2,990	22.4	--	6.7	30.7 J	17,400 J	67.9	--	157	1.1	--	14.6	876	1.1 U	1.1 U	540 U	1.1 U	39.1	84.1	1.1 U
EC-4	0.0-1.0	21-Aug-01	20,000 J	1.1 UJ	22.1	3,290	1.5	4.8	11,700	53.2	--	13.7	52.5 J	30,600 J	123	--	231	0.67	--	25.3	2,180	1.1 U	1.1 U	560 U	1.1 U	40.6	394	1.1 U
EC-4 DUP	0.0-1.0	21-Aug-01	18,000 J	1.1 UJ	17.5	4,440	1.3	5.9	6,740	50.9	--	11.3	56.5 J	29,900 J	168	--	210	1.2	--	20.1	2,070	1.1 U	1.1 U	550 U	1.1 U	38.7	373	1.1 U
EC-5	0.0-1.0	21-Aug-01	7,720 J	1.1 UJ	1.5	136	0.54 U	0.54 U	3,630	13.6	--	6.3	34.4 J	13,900 J	18.4	--	203	0.38	--	13.6	770	1.1 U	1.1 U	540 U	1.1 U	24.6	55.8	1.1 U
EC-6	0.0-1.0	21-Aug-01	5,660 J	1.2 UJ	2.3	72.2	0.59 U	0.59 U	1,130	10.4	--	5.9 U	21.9 J	8,920 J	45.6	--	69.2	0.67	--	11.4	590 U	1.2 U	1.2 U	1,120	1.2 U	13.1	104	1.2 U
EC-7	0.0-1.0	21-Aug-01	14,400 J	1.2 UJ	11.7	3,650	0.63	6	4,470	28.8	--	9.9	51 J	21,100 J	147	--	399	2.7	--	21.5	1,430	1.2 U	1.2 U	580 U	1.2 U	30.4	463	1.1 U
EC-8	0.0-1.0	21-Aug-01	11,300 J	1.1 UJ	5	770	0.58	0.72	4,770	21.1	--	9.6	45.7 J	20,000 J	84.9	--	268	0.92	--	18.5	764	1.1 U	1.1 U	540 U	1.1 U	36.4	126	1.1 U
EC-9	0.0-1.0	21-Aug-01	17,300 J	1.2 UJ	7.7	347	0.85	1	6,970	30.3	--	14.1	76.7 J	27,000 J	172	--	483	0.93	--	31	1,960	1.2 U	1.2 U	610 U	1.2	48.1	288	1.3 U
LM-A-1	0.0-0.5	21-Sep-06	10,400 J	5.7 UJ	5,460 J	6,120 J	1.4 UJ	7.7 J	13,800 J	69.7 J	--	17.1 J	160 J	240,000 J	215 J	2,840 J	728 J	82.5 J	0.0861	40.7 J	1,540 J	16.6 J	2.9 UJ	2,900 UJ	2.9 UJ	78.8 J	938 J	5.9 J
LM-A-2	0.0-0.5	21-Sep-06	16,200 J	5.4 UJ	267 J	5,560 J	1.3 UJ	36.5 J	6,400 J	144 J	3 J	15.7 J	353 J	37,400 J	618 J	4,670 J	161 J	148 J	0.1	41.7 J	3,050 J	5.4 UJ	5.2 J	5,110 J	2.7 UJ	57.2 J	1,640 J	0.62 UJ
LM-A-3	0.0-0.5	21-Sep-06	15,900 J	5 UJ	211 J	9,920 J	1.2 UJ	40.7 J	4,500 J	134 J	--	12 UJ	286 J	43,600 J	1,280 J	7,030 J	291 J	117 J	0.0677	30.9 J	3,430 J	5 UJ	3.3 J	8,870 J	2.5 UJ	60.5 J	2,140 J	0.79 J
LM-A-4	0.0-0.5	10-Oct-06	11,500	5.2 U	573	12,900	5.2 U	90.5	7,490	88.5	2.7 U	13 U	318	47,400	2,230	3,440	155	141	0.0688	25.7	1,760	5.2 U	2.6 U	4,820	10 U	46.4	6,370	1.1
LM-B-1	0.0-0.5	10-Oct-06	12,000	4.4 U	59.4	15,800	5.5 U	34.1	7,820	130	2.2 U	14.5	269	44,100	435	3,260	1,260	181	0.0008	24	2,040	4.4 U	2.8	6,800	11 U	42.3	5,150	1.6
LM-B-2	0.0-0.5	10-Oct-06	8,920	3.9 U	42	15,600	4.8 U	40.9	5,310	90.6	1.8 U	9.6 U	166	28,900	306	2,620	285	213	0.0048	17.8	1,480	3.9 U	4.1	4,360	9.6 U	36.6	3,760	0.43 U
LM-B-3	0.0-0.5	4-Oct-06	8,950	2.7 U	9.5	18,700	0.67 U	50.8	1,990	17.6	1.3 U	7.1	98.8	11,900	1,160	948	98.8	75.3	0.0013	9	670 U	2.7 U	1.3 U	2,240	1.3 U	17.1	2,340	0.27
LM-B-4	0.0-0.5	4-Oct-06	8,720	2.8 U	12.6	15,600	0.71 U	11.7	2,640	24.3	1.9	7.1 U	63.3	13,200	654	1,570	116	105	0.0047	10.3	710 U	2.8 U	1.4 U	3,110	1.4 U	21.1	799	0.33 U
LM-C-1	0.0-0.5	10-Oct-06	6,150	4.2 U	10.9	16,600	5.3 U	1.1 U	39,800	48.7	2.9	11 U	88.1	7,720	81	11,600	81.4	1,800	0.0519	15.8	1,920	4.2 U	2.1 U	9,420	11 U	19.4	98.2	0.48 U
LM-C-2	0.0-0.5	10-Oct-06	2,960	3.2 U	14.1	6,870	2.4 U	0.79 U	117,000	13.3	1.6 U	7.9 U	60.8	6,620	39.1	9,430	141	2,150	0.0199	9.2	1,170	3.2 U	1.6 U	5,690	4.8 U	9	70.3	0.34 U
LM-C-2 DUP	0.0-0.5	10-Oct-06	5,040	3.9 U	20.1	6,580	2.9 U	1	110,000	28.3	1.9 U	9.8 U	75.1	9,810	60.4	13,500	142	2,790	0.0254	16.6	1,680	3.9 U	2 U	6,740	5.9 U	15	146	0.43 U
LM-C-3	0.0-0.5	10-Oct-06	9,170	4.5 U	25.3	10,600	3.4 U	1.5	38,300	65.3	2.6	11 U	138	17,200	138	6,250	169	1,590	0.0656	24.7	1,940	4.5 U	3.8	6,750	6.8 U	30.7	212	0.52 U
LM-C-4	0.0-0.5	10-Oct-06	3,490	4.2 U	11.3	9,200	3.1 U	1 U	119,000	17.8	2.1 U	10 U	80.1	6,800	58.9	6,010	102	3,050	0.0141	12	1,080	4.2 U	2.1 U	6,580	6.2 U	10.6	96.2	0.46 U
LM-D-1	0.0-0.5	9-Oct-06	17,100	7.5 U	46.3	3,580	1.9 U	1.9 U	3,990	116	3.8 U	19 U	303	27,100	246	6,810	160	71.5	0.0423	43.4	3,470	7.5 U	3.7 U	14,100	3.7 U	61	255	0.78 U
LM-D-2	0.0-0.5	9-Oct-06	16,400	13 U	139	3,390	3.2 U	8	5,280	180	6.1 U	32 U	533	34,000	525	8,670	169	38.1	0.00873	113	3,880	13 U	6.4 U	31,500	6.4 U	110	788	1.4 U
LM-D-3	0.0-0.5	9-Oct-06	20,300	9.8 U	82.5	6,890	2.5 U	10.7	5,890	191	7	25 U	501	43,400	339	9,760	313	159	0.0171	57.8	5,120	10.2	6.3	20,600	4.9 U	82.1	760	1.1 U
LM-D-4	0.0-0.5	9-Oct-06	21,700	13 U	182	3,490	3.2 U	4.2	4,900	234	6.4 U	32 U	858	38,200	613	9,720	200	70.9	0.0325	90	5,200	29.3	6.4 U	28,900	6.4 U	85.8	561	1.5 U
LM-E-1	0.0-0.5	9-Oct-06	14,500	10 U	150	1,990	2.5 U	2.6	4,040	116	5.9	25 U	471	33,800	658	7,610	175	11.1	0.0142	114	3,860	17.4	5 U	25,100	5 U	106	459	1.2 U
LM-E-2	0.0-0.5	9-Oct-06	14,500	9.9 U	66.3	1,700	2.5 U	4.3	3,080	70.7	5 U	25 U	248	21,100	242	6,930	150	17.9	0.0237	48	3,820	9.9 U	4.9 U	23,900	4.9 U	64.6	414	1.2 U
LM-E-3	0.0-0.5	5-Oct-06	24,600 J	6.8 UJ	195 J	4,870 J	1.7 UJ	1.7 UJ	3,760 J	656 J	5.5 J	19.1 J	1,040 J	35,000 J	737 J	8,180 J	238 J	159 J	0.0567 J	88.4 J	4,370 J	8.1 J	6.4 J	16,000 J	3.4 UJ	91.8 J	445 J	0.84 J
LM-E-4	0.0-0.5	5-Oct-06	24,600 J	5.7 UJ	236 J	2,730 J	1.4 UJ	1.4 UJ	3,400 J	536 J	--	18.2 J	855 J	35,600 J	764 J	8,770 J	247 J	54 J	0.0177 J	76.2 J	4,980 J	12.1 J	3.4 J	13,100 J	2.9 UJ	95 J	422 J	0.66 UJ
SC-1	0.0-1.0	21-Aug-01	6,100 J	1.3 UJ	4	7,360	0.66 U	0.66 U	22,800	14.1	--	6.6 U	28.9 J	8,340 J	40.4	--	69.8	534	--	6.6	660 U	1.3 U	1.3 U	2,020	1.3 U	20	73.6	1.3 U
SC-2	0.0-1.0	22-Aug-01	12,800	1.1 U	3.9	343	0.58	0.53 U	1,430	23.2	--	6.4	37.9	17,800	40	1,300	136	3.3	--	17.7	595	1.4	1.1 U	530 U	1.1 U	23.7	106	1 U
SC-3	0.0-1.0	22-Aug-01	17,800	1.1 U	5.7	126	0.72	0.57 U	869	18.7	--	7	35.3	19,500	37.1	1,000	156	0.77	--	16.6	607	1.4	1.1 U	570 U	1.1 U	23.8	94.7	1.1 U
SED-1	0.0-0.5	22-Aug-01	8,120 J	1.3 UJ	48.7	2,930 J	0.67 U	6.8	8,880 J	29.5	--	10.4	83.8	24,000 J	93.7	5,990 J	240	155	--	28.4	1,130	1.4	1.3 U	2,500	1.3 U	30.1	856 J	1.4 U
SED-2	0.0-0.5	22-Aug-01	9,750 J	2.5 UJ	4,250	7,620 J	1.2 U	32	38,400 J	63.5	--	12.5	190	157,000 J	294	10,900 J	461	412	--	33.2	1,840	7.1	3.5	9,620	2.5 U	51.9	2,220 J	2.5 U
SED-3	0.0-0.5	22-Aug-01	6,980 J	1.5 UJ	19.9	1,620 J	0.76 U	35.1	2,280 J	24.8	--	7.6 U	59.3	9,780 J	177	1,540 J	45.7	98.3	--	12.3	760 U	1.5 U	2.4	3,270	1.5 U	15.8	1,290 J	1.5 U
SED-4	0.0-0.5	22-Aug-01	6,810 J	2.1 UJ	51.5 J	2,210 J	1.1 UJ	111 J	154,000 J	45 J	--	11 UJ	162 J	16,000 J	2,130 J	21,400 J	426 J	367 J	--	21.4 J	1,290 J	2.1 UJ	3.2 J	8,360 J	2.1 UJ	17.8 J	3,620 J	2.2 UJ
SED-5	0.0-0.5	22-Aug-01	19,400 J	3.5 UJ	23.7 J	1,810 J	1.7 UJ	2.8 J	23,900 J	58.5 J	--	17 UJ	62.2 J	29,300 J	59 J	9,140 J	284 J	163 J	--	27.9 J	4,830 J	3.5 UJ	3.5 UJ	16,000 J	3.5 UJ	49.8 J	176 J	3.5 UJ
SED-7	0.0-0.5	10-Oct-06	15,200	7.8 U	237	16,700	5.9 U	46.7	14,800	110	4 U	20 U	290	54,800	668	11,800	284	242	0.0369	40.8	3,220	7.8 U	4.5	16,900	12 U	70.9	2,230	0.87 U
SED-8	0.0-0.5	10-Oct-06	14,000	5.2	319	9,610	3.8 U	38.5	15,600	111	2.5 U	13 U	303	72,400	475	10,900	337	219	0.0488	38.2	2,690	5.1 U	2.9	8,990	7.6 U	64.1	1,480	0.54 U
SED-9	0.0-0.5	10-Oct-06	7,560	4	118	8,930	0.89 U	30.5	15,800	53.8	1.8 U	8.9 U	147	27,300	339	6,680	148	136	0.0345	22.8	1,430	3.6 U	1.8	4,760	8.9 U	36.7	1,020	0.38 U
SED-A-08	0.0-0.5	15-May-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	39.9	0.0442	--	--	--	--	--	--	--	--	--
SED-A-1	0.0-0.5	9-Oct-06	18,200	9.3 U	2,640	7,700	2.3 U	61.3	44,700	207	5.6	26.1	519	247,000	717	10,300	1,300	368	0.106	64	3,860	9.3 U	6.9	10,900	4.7 U	129	2,410	1.7
SED-A-2	0.0-0.5	9-Oct-06	19,000	6	930	962	1 U	110	7,700	2,690	3.2	19.6	1,100	44,300	3,950	4,990	226	305	0.019	84.3	3,130	18.9	3.6	7,410	2.1 U	77	2,710	0.86
SED-A-3	0.0-0.5	9-Oct-06	19,100	8.8 U	301	7,920	2.2 U	39.9	12,300	156	7.5	22 U	403	71,400	1,160	10,600	346	114	0.0435	54.4	3,960	8.8 U	7.2	17,900	4.4 U	108	2,470	1 U
SED-B-08	0.0-0.5	15-May-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	157	0.0531	--	--	--	--	--	--	--	--	--
SED-B-1	0.0-0.5	6-Oct-06	12,000	1.9 U	89.9	386	0.67	138	11,500	145	2.7 U	8.9	326	32,500	1,280	7,180	207	181	0.0308	31.2	2,590	1.9 U	5	9,450	1.9 U	47	6,950	0.65 U
SED-B-2	0.0-0.5	6-Oct-06	4,150	2.5 U	27.2	9,690	0.63 U	49.4	15,400	22.1	1.3 U	6.3 U	54.7	11,600	187	3,130	61.2	47.8	0.0052	11.7	630 U	2.5 U	1.3 U	2,030	1.3 U	13.3	4,140	0.27 U
SED-B-3	0.0-0.5	6-Oct-06	7,830	2.5 U	38.1	5,800	0.62 U	44.8	4,330	48	1.8 U	6.2 U	119	17,400	334	3,850	96.9	28.2	0.0165	15.7	1,320	2.5 U	1.9	4,180	6.2 U	24.6	1,850	0.4 U
SED-C-08	0.0-0.5	15-May-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	216	0.0387	--	--	--	--	--	--	--	--	--
SED-C-1	0.0-0.5	6-Oct-06	15,300	2.4 U	53.3	1,020	0.72	15.4	11,800	94	3.7 U	9.6	207	32,700	182	10,600	233	286	0.0059 J	32.9	3,800	2.4 U	3.6	17,600	1.2 U	47.1	734	0.9 U

ATTACHMENT A
Supplemental Data Tables

Table A-3.1
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Inorganics
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Inorganics (mg/kg)																									
			Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Methyl Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Cyanide
SED-C-2	0.0-0.5	6-Oct-06	11,600	2.3 U	62.1	949	0.59 U	20.4	62,200	77.2	3 U	7.1	181	27,100	179	21,400	234	593	0.03 J	28	2,820	2.3 U	2.6	13,600	1.2 U	35.9	856	0.6 U
SED-C-3	0.0-0.5	6-Oct-06	11,600	2.3 U	75.2	1,290	0.56 U	25.4	17,500	75.1	2.9 U	6.7	178	28,200	227	9,520	182	184	0.0206 J	24.6	2,140	2.3 U	2.9	11,800	1.1 U	35.4	1,000	0.62 U
SED-D-1	0.0-0.5	5-Oct-06	18,300 J	8.1 UJ	87.6 J	6,600 J	2 UJ	27.2 J	7,580 J	165 J	--	20 UJ	392 J	42,300 J	366 J	10,500 J	292 J	187 J	0.0227 J	49 J	4,290 J	8.1 UJ	6.9 J	17,400 J	4 UJ	63 J	1,290 J	0.93 UJ
SED-D-2	0.0-0.5	5-Oct-06	15,900 J	6.3 UJ	81.5 J	4,560 J	1.6 UJ	26.7 J	9,650 J	143 J	--	16 UJ	357 J	38,200 J	333 J	9,530 J	290 J	180 J	0.0093 J	46.1 J	3,490 J	6.3 UJ	6.2 J	13,200 J	3.2 UJ	55.3 J	1,300 J	0.74 UJ
SED-D-3	0.0-0.5	5-Oct-06	29,300 J	12 UJ	147 J	10,100 J	3 UJ	34.1 J	12,500 J	263 J	--	30 UJ	717 J	59,000 J	666 J	15,400 J	445 J	187 J	0.0178 J	85.1 J	6,910 J	12 UJ	8.1 J	25,400 J	5.9 UJ	101 J	1,750 J	1.5 UJ
SED-E-1	0.0-0.5	3-Oct-06	11,400 J	10 UJ	69.7 J	3,920 J	2.5 UJ	7.3 J	4,310 J	72.3 J	--	25 UJ	227 J	27,300 J	152 J	6,950 J	176 J	32.3 J	0.0159 J	37.3 J	3,230 J	10 UJ	5.1 UJ	22,500 J	5.1 UJ	42.1 J	392 J	1 UJ
SED-E-2	0.0-0.5	5-Oct-06	12,300 J	1.7 UJ	56.3 J	301 J	0.74 J	21.4 J	9,010 J	110 J	5 J	8.2 J	261 J	28,100 J	222 J	6,700 J	215 J	160 J	0.0063 J	34.1 J	2,580 J	2 J	5.7 J	9,810 J	0.86 UJ	37.5 J	759 J	0.53 UJ
SED-E-3	0.0-0.5	3-Oct-06	19,100 J	11 UJ	61.4 J	11,500 J	2.7 UJ	13.5 J	6,710 J	172 J	--	27 UJ	363 J	40,700 J	302 J	10,400 J	347 J	173 J	0.0192 J	51.2 J	4,680 J	11 UJ	5.5 J	22,300 J	5.3 UJ	60.5 J	845 J	1.1 UJ

Notes:

mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; method detection limit (MDL) presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables

Table A-3.2
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Polychlorinated Biphenyls
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	PCBs (mg/kg)		Total PCBs (mg/kg)
			Aroclor 1254	Aroclor 1260	
BSL-1	0.0-1.0	20-Sep-01	0.14	0.021 U	0.15
BSL-2	0.0-1.0	21-Sep-01	0.025 U	0.025 U	0.025
BSL-3	0.0-0.5	20-Sep-01	0.019 U	0.019 U	0.019
BSL-4	0.0-1.0	21-Sep-01	0.0293	0.022 U	0.040
BSL-5	0.0-0.5	21-Sep-01	0.019 U	0.019 U	0.019
BSL-6	0.0-1.0	26-Sep-01	0.027 U	0.027 U	0.027
BSL-7	0.0-0.5	21-Sep-01	0.064 U	0.064 U	0.064
BSL-7 DUP	0.0-0.5	21-Sep-01	0.023 U	0.023 U	0.023
BSL-8	0.0-1.0	26-Sep-01	0.027 U	0.027 U	0.027
BSL-9	0.0-0.5	21-Sep-01	0.0552	0.02 U	0.065
BSL-10	0.0-1.0	21-Sep-01	0.026 U	0.026 U	0.026
BSL-10 DUP	0.0-1.0	21-Sep-01	0.022 U	0.022 U	0.022
BSL-11	0.0-1.0	26-Sep-01	0.025 U	0.025 U	0.025
BSL-12	0.0-1.0	26-Sep-01	0.062	0.02 U	0.072
CF-2	0.0-0.5	28-Aug-01	0.11	0.023 U	0.12
CF-3	0.0-0.5	28-Aug-01	0.028 U	0.028 U	0.028
CF-4	0.0-0.5	28-Aug-01	0.227 J	0.024 U	0.24
EC-1	0.0-1.0	21-Aug-01	0.018 U	0.018 U	0.018
EC-2	0.0-1.0	21-Aug-01	0.019 U	0.0275	0.037
EC-3	0.0-1.0	21-Aug-01	0.018 U	0.018 U	0.018
EC-4	0.0-1.0	21-Aug-01	0.019 U	0.019 U	0.019
EC-4 DUP	0.0-1.0	21-Aug-01	0.018 U	0.018 U	0.018
EC-5	0.0-1.0	21-Aug-01	0.018 U	0.018 U	0.018
EC-6	0.0-1.0	21-Aug-01	0.021 U	0.021 U	0.021
EC-7	0.0-1.0	21-Aug-01	0.02 U	0.02 U	0.020
EC-8	0.0-1.0	21-Aug-01	0.018 U	0.018 U	0.018
EC-9	0.0-1.0	21-Aug-01	0.02 U	0.0323	0.042
LM-A-1	0.0-0.5	21-Sep-06	0.044 UJ	0.019 UJ	0.032
LM-A-2	0.0-0.5	21-Sep-06	0.041 UJ	0.018 UJ	0.030
LM-A-3	0.0-0.5	21-Sep-06	0.039 UJ	0.016 UJ	0.028
LM-A-4	0.0-0.5	10-Oct-06	0.041 U	0.018 U	0.030
LM-B-1	0.0-0.5	10-Oct-06	0.034 U	0.014 U	0.024
LM-B-2	0.0-0.5	10-Oct-06	0.029 U	0.012 U	0.021
LM-B-3	0.0-0.5	4-Oct-06	0.02 U	0.0087 U	0.014
LM-B-4	0.0-0.5	4-Oct-06	0.022 U	0.0094 U	0.016
LM-C-1	0.0-0.5	10-Oct-06	0.033 U	0.014 U	0.024
LM-C-2	0.0-0.5	10-Oct-06	0.025 U	0.011 U	0.018
LM-C-2 DUP	0.0-0.5	10-Oct-06	0.062 U	0.062 U	0.062
LM-C-3	0.0-0.5	10-Oct-06	0.037 U	0.016 U	0.027
LM-C-4	0.0-0.5	10-Oct-06	0.033 U	0.014 U	0.024
LM-D-1	0.0-0.5	9-Oct-06	0.059 U	0.025 U	0.042
LM-D-2	0.0-0.5	9-Oct-06	0.096 U	0.041 U	0.069
LM-D-3	0.0-0.5	9-Oct-06	0.074 U	0.032 U	0.053
LM-D-4	0.0-0.5	9-Oct-06	0.1 U	0.043 U	0.072
LM-E-1	0.0-0.5	9-Oct-06	0.081 U	0.035 U	0.058
LM-E-2	0.0-0.5	9-Oct-06	0.078 U	0.033 U	0.056
LM-E-3	0.0-0.5	5-Oct-06	0.053 UJ	0.356 J	0.38
LM-E-4	0.0-0.5	5-Oct-06	0.047 UJ	0.02 UJ	0.034
SC-1	0.0-1.0	21-Aug-01	2.25	0.021 U	2.3
SC-2	0.0-1.0	22-Aug-01	0.018 U	0.0281 J	0.037
SC-3	0.0-1.0	22-Aug-01	0.019 U	0.019 U	0.019
SED-1	0.0-0.5	22-Aug-01	0.952	0.023 U	0.96
SED-2	0.0-0.5	22-Aug-01	1.12	0.13 U	1.2

ATTACHMENT A
Supplemental Data Tables

Table A-3.2
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Polychlorinated Biphenyls
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	PCBs (mg/kg)		Total PCBs (mg/kg)
			Aroclor 1254	Aroclor 1260	
SED-3	0.0-0.5	22-Aug-01	0.072 U	0.072 U	0.072
SED-4	0.0-0.5	22-Aug-01	0.039 UJ	0.039 UJ	0.039
SED-5	0.0-0.5	22-Aug-01	0.06 UJ	0.06 UJ	0.060
SED-7	0.0-0.5	10-Oct-06	0.547	0.027 U	0.56
SED-8	0.0-0.5	10-Oct-06	2.73	0.017 U	2.7
SED-9	0.0-0.5	10-Oct-06	0.346	0.012 U	0.35
SED-A-1	0.0-0.5	9-Oct-06	0.327	0.032 U	0.34
SED-A-2	0.0-0.5	9-Oct-06	0.033 U	0.014 U	0.024
SED-A-3	0.0-0.5	9-Oct-06	0.28	0.029 U	0.29
SED-B-1	0.0-0.5	6-Oct-06	0.043 U	0.342	0.36
SED-B-2	0.0-0.5	6-Oct-06	0.02 U	0.0087 U	0.014
SED-B-3	0.0-0.5	6-Oct-06	0.028 U	0.012 U	0.020
SED-C-1	0.0-0.5	6-Oct-06	0.058 U	0.201	0.23
SED-C-2	0.0-0.5	6-Oct-06	0.046 U	0.02 U	0.033
SED-C-3	0.0-0.5	6-Oct-06	0.045 U	0.429	0.45
SED-D-1	0.0-0.5	5-Oct-06	0.064 UJ	0.027 UJ	0.046
SED-D-2	0.0-0.5	5-Oct-06	0.051 UJ	0.022 UJ	0.037
SED-D-3	0.0-0.5	5-Oct-06	0.095 UJ	0.041 UJ	0.068
SED-E-1	0.0-0.5	3-Oct-06	0.078 UJ	0.033 UJ	0.056
SED-E-2	0.0-0.5	5-Oct-06	0.04 UJ	0.162 J	0.18
SED-E-3	0.0-0.5	3-Oct-06	0.081 UJ	0.035 UJ	0.058

Notes:
Aroclors were summed and evaluated as Total PCBs. Individual Aroclors that were never detected in soil (Aroclor 1016, 1221, 1232, 1242, 1248) were excluded from the summation; otherwise, non-detect results were summed using one-half the method detection limit (MDL). For duplicate Aroclor samples, the Total PCB concentration was calculated prior to applying the duplicate handling process described below.

mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; MDL presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables

Table A-3.3
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Dioxins
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Dioxins (mg/kg)							Dioxin TEQ
			1,2,3,4,6,7,8-HPCDD	1,2,3,4,7,8-HXCDD	1,2,3,6,7,8-HXCDD	1,2,3,7,8,9- HXCDD	1,2,3,7,8- PECDD	2,3,7,8-TCDD	OCDD	
		TEF:	0.01	0.1	0.1	0.1	1	1	0.0003	
BSL-1	0.0-1.0	20-Sep-01	1.0E-05	3.2E-07 U	1.2E-06	6.2E-07	4.2E-07	3.0E-07	0.000384	1.1E-06
BSL-6	0.0-1.0	26-Sep-01	8.1E-05	1.7E-06	5.2E-06	2.9E-06	2.0E-06	2.9E-06	0.00155	7.1E-06
BSL-12	0.0-1.0	26-Sep-01	7.6E-05	9.4E-07	3.0E-06	1.7E-06	8.1E-07	9.1E-07	0.0027	3.9E-06
EC-3	0.0-1.0	21-Aug-01	4.9E-05	8.1E-07	2.5E-06	5.6E-07	7.0E-07	5.5E-07	0.00154	2.6E-06
EC-7	0.0-1.0	21-Aug-01	2.8E-05	7.5E-07	1.8E-06	1.5E-06	6.1E-07	4.4E-07	0.00131	2.1E-06
LM-A-3	0.0-0.5	21-Sep-06	5.2E-05 J	1.1E-06 J	3.6E-06 J	2.4E-06 J	1.4E-06 J	3.7E-06 J	0.000638 J	6.5E-06
LM-B-2	0.0-0.5	10-Oct-06	3.9E-05	1.1E-06 J	3.2E-06 J	2.7E-06 J	1.2E-06 J	2.1E-06	0.000373	4.5E-06
LM-B-3	0.0-0.5	4-Oct-06	2.4E-05	1.1E-06 J	2.2E-06 J	1.7E-06 J	1.0E-06 J	7.9E-07 J	0.000882	2.8E-06
LM-C-2	0.0-0.5	10-Oct-06	3.1E-05	6.6E-07 J	2.8E-06 J	1.4E-06 J	6.2E-07 J	1.4E-06 J	0.000253	2.8E-06
LM-C-2 DUP	0.0-0.5	10-Oct-06	2.4E-05	4.3E-07 J	2.0E-06 J	1.0E-06 J	4.3E-07 J	1.0E-06 J	0.00019	2.1E-06
LM-D-2	0.0-0.5	9-Oct-06	5.8E-05 J	3.0E-06 J	5.3E-06 J	3.5E-06 J	2.4E-06 J	6.1E-06 J	0.000562 J	1.0E-05
LM-D-3	0.0-0.5	9-Oct-06	0.000295 J	4.9E-06 J	1.5E-05 J	9.7E-06 J	3.7E-06 J	1.3E-05 J	0.00287 J	2.3E-05
LM-E-3	0.0-0.5	5-Oct-06	0.00061 J	1.8E-05 J	6.2E-05 J	3.6E-05 J	9.6E-06 J	6.5E-05 J	0.00807 J	9.5E-05
SC-3	0.0-1.0	22-Aug-01	3.7E-05	8.2E-07	2.0E-06	2.6E-06	7.6E-07	9.0E-07	0.00121	2.9E-06
SED-A-1	0.0-0.5	9-Oct-06	7.6E-05 J	1.5E-06 J	5.2E-06 J	3.4E-06 J	1.7E-06 J	4.4E-06 J	0.000911 J	8.1E-06
SED-A-3	0.0-0.5	9-Oct-06	7.8E-05 J	1.2E-06 J	3.5E-06 J	2.3E-06 J	1.3E-06 J	1.7E-06 J	0.000942 J	4.8E-06
SED-C-3	0.0-0.5	6-Oct-06	0.000152 J	4.7E-06 J	9.7E-06 J	8.3E-06 J	4.3E-06 J	9.3E-06 J	0.00167 J	1.8E-05
SED-D-3	0.0-0.5	5-Oct-06	0.000495 J	1.0E-05 J	2.5E-05 J	1.7E-05 J	6.1E-06 J	1.9E-05 J	0.00526 J	3.7E-05
SED-E-1	0.0-0.5	3-Oct-06	4.7E-05	8.0E-07 J	3.3E-06 J	2.1E-06 J	1.0E-06 J	3.7E-06	0.000503	5.9E-06

Notes:

Dioxins were converted to a 2,3,7,8-TCDD equivalent concentration using the Toxic Equivalency Factors presented in the table and summed to calculate a Dioxin Toxic Equivalency Quotient (TEQ). Non-detect results were summed using one-half the method detection limit (MDL). For duplicate dioxin samples, the Dioxin TEQ was calculated prior to applying the duplicate handling process described below.

mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; MDL presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

Table A-3.4
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Furans
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Furans (mg/kg)										Furan TEQ
			1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDF	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDF	OCDF	
		TEF:	0.01	0.01	0.1	0.1	0.1	0.03	0.1	0.3	0.1	0.0003	
BSL-1	0.0-1.0	20-Sep-01	5.4E-05	0.000146	0.000172	4.8E-05	9.0E-05	0.000136	4.1E-05	0.000167	6.8E-05	0.000206	9.8E-05
BSL-6	0.0-1.0	26-Sep-01	0.000135	0.000268	0.000326	9.1E-05	0.000141	0.000227	0.000114	0.000288	0.000151	0.000443	1.8E-04
BSL-12	0.0-1.0	26-Sep-01	0.000131	9.1E-05	0.000358	8.9E-05	0.00013	0.000203	3.8E-05	0.000228	9.7E-05	0.000423	1.5E-04
EC-3	0.0-1.0	21-Aug-01	1.9E-05	2.0E-06	5.3E-06	2.2E-06	1.1E-06	2.1E-06	2.3E-06	3.5E-06	2.8E-06	7.7E-05	2.7E-06
EC-7	0.0-1.0	21-Aug-01	1.4E-05	1.6E-06	4.3E-06	1.7E-06	1.1E-06	2.0E-06	2.0E-06	3.0E-06	2.1E-06	6.1E-05	2.2E-06
LM-A-3	0.0-0.5	21-Sep-06	4.6E-05 J	7.4E-06 J	2.5E-05 J	1.0E-05 J	7.1E-06 J	2.0E-05 J	5.5E-06 J	2.1E-05 J	5.1E-05 J	9.9E-05 J	1.7E-05
LM-B-2	0.0-0.5	10-Oct-06	4.4E-05	1.5E-05	7.0E-05	1.9E-05	2.8E-05	5.5E-05	9.2E-06	5.6E-05	5.1E-05	0.00013	3.7E-05
LM-B-3	0.0-0.5	4-Oct-06	5.3E-05	2.4E-05	9.1E-05	2.6E-05	3.8E-05	5.1E-05	1.5E-05	6.2E-05	2.3E-05	0.000122	4.0E-05
LM-C-2	0.0-0.5	10-Oct-06	0.000124	8.9E-05	0.000405	9.8E-05	0.000189	0.000277	4.3E-05	0.000334	0.000111	0.000362	2.0E-04
LM-C-2 DUP	0.0-0.5	10-Oct-06	7.7E-05	6.2E-05	0.000265	6.6E-05	0.000136	0.000199	3.2E-05	0.000241	8.8E-05	0.000225	1.4E-04
LM-D-2	0.0-0.5	9-Oct-06	4.7E-05 J	5.5E-06 J	1.7E-05 J	7.6E-06 J	4.4E-06 J	1.1E-05 J	7.4E-06 J	1.4E-05 J	1.6E-05 J	6.6E-05 J	1.0E-05
LM-D-3	0.0-0.5	9-Oct-06	0.000179 J	2.5E-05 J	8.9E-05 J	2.6E-05 J	2.8E-05 J	5.5E-05 J	2.0E-05 J	6.6E-05 J	8.3E-05 J	0.000377 J	4.8E-05
LM-E-3	0.0-0.5	5-Oct-06	0.000497 J	5.0E-05 J	0.000184 J	6.8E-05 J	5.6E-05 J	9.4E-05 J	6.4E-05 J	0.000122 J	0.000113 J	0.000907 J	9.4E-05
SC-3	0.0-1.0	22-Aug-01	4.3E-05 J	3.4E-06 J	5.0E-06 J	2.3E-06	1.3E-06 J	2.2E-06	2.6E-06	3.3E-06	2.8E-06	0.000547	3.1E-06
SED-A-1	0.0-0.5	9-Oct-06	6.8E-05 J	2.0E-05 J	6.9E-05 J	2.0E-05 J	2.0E-05 J	5.3E-05 J	1.1E-05 J	5.9E-05 J	0.000173 J	0.000195 J	4.9E-05
SED-A-3	0.0-0.5	9-Oct-06	3.2E-05 J	8.5E-06 J	2.3E-05 J	8.4E-06 J	6.1E-06 J	2.2E-05 J	4.2E-06 J	2.4E-05 J	9.9E-05 J	9.1E-05 J	2.2E-05
SED-C-3	0.0-0.5	6-Oct-06	0.000229 J	9.5E-05 J	0.00042 J	6.2E-05 J	6.7E-05 J	0.000182 J	2.9E-05 J	0.000166 J	0.000342 J	0.000472 J	1.5E-04
SED-D-3	0.0-0.5	5-Oct-06	0.000246 J	5.9E-05 J	0.000163 J	4.7E-05 J	4.6E-05 J	0.000102 J	3.2E-05 J	0.000114 J	0.000178 J	0.000651 J	8.7E-05
SED-E-1	0.0-0.5	3-Oct-06	3.0E-05	4.0E-06 J	1.9E-05	6.0E-06 J	4.7E-06 J	1.3E-05 J	4.3E-06 J	1.4E-05 J	2.0E-05	5.9E-05	1.0E-05

Notes:

Furans were converted to a 2,3,7,8-TCDD equivalent concentration using the Toxic Equivalency Factors presented in the table and summed to calculate a Furan Toxic Equivalency Quotient (TEQ). Non-detect results were summed using one-half the method detection limit (MDL). For duplicate furan samples, the Furan TEQ was calculated prior to applying the duplicate handling process described below.

mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; MDL presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

Table A-3.5
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Pesticides
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Pesticides (mg/kg)					
			Aldrin	Dieldrin	Methoxy chlor	P,P'-DDD	P,P'-DDE	P,P'-DDT
BSL-1	0.0-1.0	20-Sep-01	0.0043 U	0.0043 U	0.0205	0.0043 U	0.02	0.0383 J
BSL-2	0.0-1.0	21-Sep-01	0.001 U	0.001 U	0.0025 U	0.001 U	0.001 U	0.0026
BSL-3	0.0-0.5	20-Sep-01	0.0037 U	0.0037 U	0.0094 U	0.0037 U	0.0037 U	0.0037 UJ
BSL-4	0.0-1.0	21-Sep-01	0.00089 U	0.00089 U	0.0022 U	0.00089 U	0.00089 U	0.00089 U
BSL-5	0.0-0.5	21-Sep-01	0.00076 U	0.00076 U	0.0019 U	0.00076 U	0.00076 U	0.00076 U
BSL-6	0.0-1.0	26-Sep-01	0.0055 U	0.0055 U	0.014 U	0.0055 U	0.0055 U	0.0055 U
BSL-7	0.0-0.5	21-Sep-01	0.0026 U	0.0026 U	0.0064 U	0.0026 U	0.0026 U	0.0026 U
BSL-7 DUP	0.0-0.5	21-Sep-01	0.0009 U	0.0009 U	0.0023 U	0.0009 U	0.0012	0.0017
BSL-8	0.0-1.0	26-Sep-01	0.0055 U	0.0055 U	0.014 U	0.0055 U	0.0055 U	0.0055 U
BSL-9	0.0-0.5	21-Sep-01	0.0008 U	0.0008 U	0.002 U	0.0008 U	0.0008 U	0.0008 U
BSL-10	0.0-1.0	21-Sep-01	0.001 U	0.0016	0.0224	0.001 U	0.0616	0.0307
BSL-10 DUP	0.0-1.0	21-Sep-01	0.00087 U	0.00087 U	0.0046	0.00087 U	0.0072	0.0049
BSL-11	0.0-1.0	26-Sep-01	0.005 U	0.005 U	0.012 U	0.0052	0.005 U	0.005 U
BSL-12	0.0-1.0	26-Sep-01	0.0041 U	0.0041 U	0.01 U	0.0103	0.0041 U	0.0041 U
CF-2	0.0-0.5	28-Aug-01	0.0046 U	0.0046 U	0.011 U	0.0046 U	0.0046 U	0.0146 J
CF-3	0.0-0.5	28-Aug-01	0.0055 U	0.0055 U	0.014 U	0.0055 U	0.0055 U	0.0204 J
CF-4	0.0-0.5	28-Aug-01	0.0047 U	0.0047 U	0.012 UJ	0.0047 U	0.0085 J	0.0358 J
EC-1	0.0-1.0	21-Aug-01	0.0036 U	0.0036 U	0.009 U	0.0036 U	0.0036 U	0.0072
EC-2	0.0-1.0	21-Aug-01	0.0037 U	0.0037 U	0.0093 U	0.0037 U	0.0037 U	0.0102
EC-3	0.0-1.0	21-Aug-01	0.0036 U	0.0036 U	0.009 U	0.0036 U	0.0036 U	0.0076
EC-4	0.0-1.0	21-Aug-01	0.0037 U	0.0037 U	0.0093 U	0.0037 U	0.0037 U	0.0037 U
EC-4 DUP	0.0-1.0	21-Aug-01	0.0035 U	0.0035 U	0.0088 U	0.0035 U	0.0035 U	0.0044
EC-5	0.0-1.0	21-Aug-01	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0037 U	0.0037 U
EC-6	0.0-1.0	21-Aug-01	0.0041 U	0.0041 U	0.01 U	0.0118	0.0041 U	0.0041 U
EC-7	0.0-1.0	21-Aug-01	0.004 U	0.004 U	0.0099 U	0.004 U	0.004 U	0.005
EC-8	0.0-1.0	21-Aug-01	0.0037 U	0.0037 U	0.0092 U	0.0037 U	0.0037 U	0.0049
EC-9	0.0-1.0	21-Aug-01	0.0041 U	0.0212	0.01 U	0.0041 U	0.0041 U	0.0179
LM-A-1	0.0-0.5	21-Sep-06	0.00083 UJ	0.00095 UJ	0.0012 UJ	0.0227 J	0.0051 JN	0.0011 UJ
LM-A-2	0.0-0.5	21-Sep-06	0.00077 UJ	0.00088 UJ	0.0012 UJ	0.0225 J	0.0088 JN	0.0011 UJ
LM-A-3	0.0-0.5	21-Sep-06	0.00072 UJ	0.00082 UJ	0.0011 UJ	0.0243 J	0.0101 JN	0.0237 J
LM-A-4	0.0-0.5	10-Oct-06	0.00077 U	0.00088 U	0.0012 U	0.0098	0.00087 U	0.0011 U
LM-B-1	0.0-0.5	10-Oct-06	0.00063 U	0.00072 U	0.00094 U	0.0059	0.00071 U	0.0068
LM-B-2	0.0-0.5	10-Oct-06	0.00054 U	0.00062 U	0.00081 U	0.0098	0.00061 U	0.022
LM-B-3	0.0-0.5	4-Oct-06	0.00038 U	0.00044 U	0.00057 U	0.003	0.0035	0.00053 U
LM-B-4	0.0-0.5	4-Oct-06	0.00041 U	0.00047 U	0.00062 U	0.00045 U	0.0104	0.00057 U
LM-C-1	0.0-0.5	10-Oct-06	0.00062 U	0.0035	0.00094 U	0.137	0.0385	0.0044
LM-C-2	0.0-0.5	10-Oct-06	0.00047 U	0.00054 U	0.0007 U	0.13	0.0175	0.00065 U
LM-C-2 DUP	0.0-0.5	10-Oct-06	0.0025 U	0.0025 U	0.0062 U	0.0987	0.0158	0.0193
LM-C-3	0.0-0.5	10-Oct-06	0.00068 U	0.00078 U	0.001 U	0.0715	0.0196	0.00094 U
LM-C-4	0.0-0.5	10-Oct-06	0.00061 U	0.0007 U	0.00092 U	0.0135	0.00069 U	0.00085 U
LM-D-1	0.0-0.5	9-Oct-06	0.0011 U	0.0013 U	0.0017 U	0.053	0.0172	0.0015 U
LM-D-2	0.0-0.5	9-Oct-06	0.0018 U	0.0021 U	0.0027 U	0.135	0.0336	0.0025 U
LM-D-3	0.0-0.5	9-Oct-06	0.0014 U	0.0016 U	0.0021 U	0.211	0.0865	0.0019 U
LM-D-4	0.0-0.5	9-Oct-06	0.0019 U	0.0022 U	0.0028 U	0.215	0.0506	0.0026 U
LM-E-1	0.0-0.5	9-Oct-06	0.0015 U	0.0073	0.0023 U	0.181	0.0425	0.0083
LM-E-2	0.0-0.5	9-Oct-06	0.0015 U	0.0017 U	0.0022 U	0.0366	0.0117	0.002 U
LM-E-3	0.0-0.5	5-Oct-06	0.00099 UJ	0.0011 UJ	0.0015 UJ	0.828 J	0.213 J	0.0014 UJ
LM-E-4	0.0-0.5	5-Oct-06	0.00087 UJ	0.0106 J	0.0013 UJ	1.91 J	0.463 J	0.044 J

Table A-3.5
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Pesticides
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Pesticides (mg/kg)					
			Aldrin	Dieldrin	Methoxy chlor	P,P'-DDD	P,P'-DDE	P,P'-DDT
SC-1	0.0-1.0	21-Aug-01	0.0043 U	0.0043 U	0.011 U	0.0043 U	0.0043 U	0.0043 U
SC-2	0.0-1.0	22-Aug-01	0.0036 U	0.0036 U	0.009 U	0.0036 U	0.0036 U	0.0151
SC-3	0.0-1.0	22-Aug-01	0.0039 U	0.0039 U	0.0097 U	0.0039 U	0.0039 U	0.0142
SED-1	0.0-0.5	22-Aug-01	0.0046 U	0.0046 U	0.012 U	0.0126	0.0046 U	0.0623
SED-2	0.0-0.5	22-Aug-01	0.025 U	0.025 U	0.064 U	0.025 U	0.025 U	0.025 U
SED-3	0.0-0.5	22-Aug-01	0.014 U	0.014 U	0.036 U	0.014 U	0.014 U	0.014 U
SED-4	0.0-0.5	22-Aug-01	0.0078 UJ	0.0078 UJ	0.019 UJ	0.0078 UJ	0.0078 UJ	0.0078 UJ
SED-5	0.0-0.5	22-Aug-01	0.012 UJ	0.012 UJ	0.03 UJ	0.012 UJ	0.012 UJ	0.012 UJ
SED-7	0.0-0.5	10-Oct-06	0.0011 U	0.0013 U	0.0017 U	0.0293	0.0214	0.0383
SED-8	0.0-0.5	10-Oct-06	0.00075 U	0.00086 U	0.0011 U	0.00082 U	0.00084 U	0.001 U
SED-9	0.0-0.5	10-Oct-06	0.00053 U	0.00061 U	0.0008 U	0.021	0.0006 U	0.00074 U
SED-A-1	0.0-0.5	9-Oct-06	0.0014 U	0.0016 U	0.0021 U	0.031	0.0016 U	0.0019 U
SED-A-2	0.0-0.5	9-Oct-06	0.00062 U	0.00071 U	0.00094 U	2.13	0.269	0.0624
SED-A-3	0.0-0.5	9-Oct-06	0.0013 U	0.0015 U	0.0019 U	0.0348	0.0014 U	0.0283
SED-B-1	0.0-0.5	6-Oct-06	0.0008 U	0.00092 U	0.0012 U	0.00088 U	0.00091 U	0.0011 U
SED-B-2	0.0-0.5	6-Oct-06	0.00038 U	0.00043 U	0.00057 U	0.0073	0.00043 U	0.00053 U
SED-B-3	0.0-0.5	6-Oct-06	0.00053 U	0.00061 U	0.0008 U	0.0156	0.0006 U	0.00073 U
SED-C-1	0.0-0.5	6-Oct-06	0.0011 U	0.0012 U	0.0016 U	0.0724	0.0012 U	0.0015 U
SED-C-2	0.0-0.5	6-Oct-06	0.00086 U	0.00099 U	0.0013 U	0.00094 U	0.00098 U	0.0012 U
SED-C-3	0.0-0.5	6-Oct-06	0.00084 U	0.00097 U	0.0013 U	0.0662	0.00095 U	0.0012 U
SED-D-1	0.0-0.5	5-Oct-06	0.0012 UJ	0.0014 UJ	0.0018 UJ	0.058 J	0.0013 UJ	0.0753 J
SED-D-2	0.0-0.5	5-Oct-06	0.00095 UJ	0.0095 J	0.0014 UJ	0.061 J	0.0226 JN	0.037 J
SED-D-3	0.0-0.5	5-Oct-06	0.0018 UJ	0.002 UJ	0.0027 UJ	0.142 J	0.0386 J	0.0025 UJ
SED-E-1	0.0-0.5	3-Oct-06	0.0015 UJ	0.0017 UJ	0.0022 UJ	0.0513 J	0.0175 JN	0.002 UJ
SED-E-2	0.0-0.5	5-Oct-06	0.00075 UJ	0.00086 UJ	0.0011 UJ	0.0732 J	0.00085 UJ	0.001 UJ
SED-E-3	0.0-0.5	3-Oct-06	0.0015 UJ	0.0103 J	0.0023 UJ	0.16 J	0.0528 J	0.126 J

Notes:

mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; method detection limit (MDL) presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables

Table A-3.6a
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Semivolatile Organic Compounds (Polycyclic Aromatic Hydrocarbons)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Carcinogenic Polycyclic Aromatic Hydrocarbons (mg/kg) [1]								Polycyclic Aromatic Hydrocarbons (mg/kg)											
			Benzo(a) Anthracene	Benzo(a) Pyrene	Benzo(b) fluoranthene	Benzo(k) fluor anthene	Chrysene	Dibenz(a,H) Anthracene	Indeno (1,2,3-c,d) Pyrene	Benzo(a) pyrene TEQ	Acenaph thene	Acenaph thylene	Anthracene	Benzo (g,H,i) Perylene	2-Chloro naph thalene	Dibenzo furan	Fluor anthene	Fluorene	2-Methyl naph thalene	Naph thalene	Phenan threne	Pyrene
		TEF:	0.1	1.0	0.1	0.01	0.001	1.0	0.1													
BSL-1	0.0-1.0	20-Sep-01	0.135	0.132	0.205	0.079	0.172	0.079 U	0.0597 J	0.21	0.079 U	0.0282 J	0.026 J	0.0561 J	0.079 U	0.079 U	0.344	0.079 U	0.079 U	0.079 U	0.15	0.258
BSL-2	0.0-1.0	21-Sep-01	0.134	0.124	0.162	0.0749 J	0.153	0.1 U	0.0953 J	0.21	0.1 U	0.1 U	0.0324 J	0.085 J	0.1 U	0.1 U	0.267	0.1 U	0.1 U	0.1 U	0.164	0.231
BSL-3	0.0-0.5	20-Sep-01	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.082	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
BSL-4	0.0-1.0	21-Sep-01	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.10	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.0277 J	0.086 U	0.086 U	0.086 U	0.086 U	0.025 J
BSL-5	0.0-0.5	21-Sep-01	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.095	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
BSL-6	0.0-1.0	26-Sep-01	0.148	0.121	0.16	0.0651 J	0.143	0.11 U	0.0708 J	0.21	0.11 U	0.11 U	0.0383 J	0.0628 J	0.11 U	0.11 U	0.28	0.11 U	0.11 U	0.11 U	0.184	0.243
BSL-7	0.0-0.5	21-Sep-01	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.11	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
BSL-7 DUP	0.0-0.5	21-Sep-01	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.12	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
BSL-8	0.0-1.0	26-Sep-01	0.0364 J	0.0408 J	0.0554 J	0.023 J	0.0414 J	0.12 U	0.12 U	0.12	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.0685 J	0.12 U	0.12 U	0.12 U	0.12 U	0.0605 J
BSL-9	0.0-0.5	21-Sep-01	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.097	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U
BSL-10	0.0-1.0	21-Sep-01	0.099 UJ	0.099 UJ	0.035 J	0.099 UJ	0.099 U	0.099 UJ	0.099 UJ	0.11	0.099 U	0.099 U	0.099 U	0.099 UJ	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.0286 J
BSL-10 DUP	0.0-1.0	21-Sep-01	0.091 U	0.091 U	0.0377 J	0.091 U	0.0236 J	0.091 U	0.091 U	0.10	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U
BSL-11	0.0-1.0	26-Sep-01	0.0194 J	0.096 U	0.0409 J	0.096 U	0.0718 J	0.096 U	0.096 U	0.11	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.0354 J	0.096 U	0.096 U	0.096 U	0.0315 J	0.0536 J
BSL-12	0.0-1.0	26-Sep-01	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.088	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U
CF-2	0.0-0.5	28-Aug-01	0.0931	0.0724 J	0.132	0.0493 J	0.0942	0.082 U	0.082 U	0.14	0.082 U	0.082 U	0.0276 J	0.0399 J	0.082 U	0.082 U	0.158	0.082 U	0.082 U	0.082 U	0.0904	0.167
CF-3	0.0-0.5	28-Aug-01	0.165	0.139	0.224	0.0812 J	0.184	0.099 U	0.0812 J	0.24	0.099 U	0.099 U	0.0616 J	0.0706 J	0.099 U	0.099 U	0.386	0.0269 J	0.099 U	0.099 U	0.344	0.329
CF-4	0.0-0.5	28-Aug-01	0.23	0.179	0.308	0.106	0.232	0.087 U	0.109	0.29	0.087 U	0.087 U	0.049 J	0.0908	0.087 U	0.087 U	0.458	0.087 U	0.087 U	0.087 U	0.152	0.426
EC-1	0.0-1.0	21-Aug-01	0.0351 J	0.0365 J	0.0558 J	0.024 J	0.0449 J	0.076 U	0.0236 J	0.086	0.076 U	0.076 U	0.076 U	0.0194 J	0.076 U	0.076 U	0.0715 J	0.076 U	0.076 U	0.076 U	0.039 J	0.0647 J
EC-2	0.0-1.0	21-Aug-01	0.302	0.325	0.439	0.173	0.324	0.0394 J	0.17	0.46	0.0233 J	0.0275 J	0.0742 J	0.151	0.075 U	0.075 U	0.548	0.0207 J	0.075 U	0.075 U	0.319	0.57
EC-3	0.0-1.0	21-Aug-01	0.0989	0.105 J	0.171 J	0.0684 J	0.12	0.071 UJ	0.0736 J	0.18	0.071 U	0.071 U	0.0253 J	0.0665 J	0.071 U	0.071 U	0.154	0.071 U	0.071 U	0.071 U	0.0821	0.259
EC-4	0.0-1.0	21-Aug-01	0.0906	0.109 J	0.156 J	0.0602 J	0.112	0.074 UJ	0.0734 J	0.18	0.074 U	0.074 U	0.0193 J	0.0808 J	0.074 U	0.074 U	0.139	0.074 U	0.074 U	0.074 U	0.0845	0.255
EC-4 DUP	0.0-1.0	21-Aug-01	0.21	0.224	0.315	0.117	0.26	0.071 U	0.141	0.33	0.0184 J	0.071 U	0.0528 J	0.136	0.071 U	0.071 U	0.314	0.071 U	0.071 U	0.071 U	0.23	0.606
EC-5	0.0-1.0	21-Aug-01	0.074 U	0.074 U	0.0229 J	0.074 U	0.074 U	0.074 U	0.074 U	0.084	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.027 J	0.074 U	0.074 U	0.074 U	0.074 U	0.0235 J
EC-6	0.0-1.0	21-Aug-01	0.082 U	0.082 U	0.0249 J	0.082 U	0.082 U	0.082 U	0.082 U	0.093	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.0254 J	0.082 U	0.082 U	0.082 U	0.082 U	0.0215 J
EC-7	0.0-1.0	21-Aug-01	0.117	0.125 J	0.174 J	0.0707 J	0.135	0.08 UJ	0.0865 J	0.20	0.08 U	0.08 U	0.0301 J	0.104 J	0.08 U	0.08 U	0.163	0.08 U	0.08 U	0.08 U	0.103	0.27
EC-8	0.0-1.0	21-Aug-01	0.116	0.119 J	0.207 J	0.0764 J	0.171	0.074 UJ	0.0748 J	0.20	0.074 U	0.074 U	0.0339 J	0.0913 J	0.074 U	0.074 U	0.214	0.074 U	0.074 U	0.074 U	0.114	0.371
EC-9	0.0-1.0	21-Aug-01	0.432	0.42 J	0.64 J	0.25 J	0.486	0.0677 J	0.281 J	0.63	0.0504 J	0.0477 J	0.118	0.252 J	0.087 U	0.0391 J	0.687	0.0453 J	0.0254 J	0.087 U	0.419	1.23
LM-A-1	0.0-0.5	21-Sep-06	0.0762 J	0.0719 J	0.102 J	0.0762 J	0.113 J	0.049 UJ	0.06 UJ	0.12	0.048 UJ	0.038 UJ	0.0392 J	0.051 UJ	0.13 UJ	0.044 UJ	0.273 J	0.038 UJ	0.061 UJ	0.053 UJ	0.0742 J	0.247 J
LM-A-2	0.0-0.5	21-Sep-06	0.157 J	0.111 J	0.151 J	0.108 J	0.169 J	0.046 UJ	0.0791 J	0.17	0.045 UJ	0.036 UJ	0.0625 J	0.0694 J	0.12 UJ	0.041 UJ	0.446 J	0.035 UJ	0.057 UJ	0.049 UJ	0.0899 J	0.437 J
LM-A-3	0.0-0.5	21-Sep-06	0.0725 J	0.0666 J	0.103 J	0.062 UJ	0.105 J	0.043 UJ	0.052 UJ	0.11	0.042 UJ	0.033 UJ	0.032 UJ	0.045 UJ	0.11 UJ	0.038 UJ	0.27 J	0.033 UJ	0.053 UJ	0.046 UJ	0.036 UJ	0.251 J
LM-A-4	0.0-0.5	10-Oct-06	0.131 J	0.135 J	0.217	0.167 J	0.251	0.047 U	0.0824 J	0.20	0.045 U	0.036 U	0.0522 J	0.0845 J	0.12 U	0.041 U	0.499	0.036 U	0.058 U	0.05 U	0.0894 J	0.319
LM-B-1	0.0-0.5	10-Oct-06	0.0587 J	0.0574 J	0.0655 J	0.054 U	0.0664 J	0.037 U	0.045 U	0.091	0.036 U	0.029 U	0.028 U	0.039 U	0.1 U	0.033 U	0.103 J	0.029 U	0.046 U	0.04 U	0.0318 J	0.0829 J
LM-B-2	0.0-0.5	10-Oct-06	0.0447 J	0.0577 J	0.0587 J	0.046 U	0.0599 J	0.032 U	0.039 U	0.086	0.031 U	0.025 U	0.024 U	0.033 U	0.086 U	0.028 U	0.0917 J	0.025 U	0.04 U	0.034 U	0.0365 J	0.0763 J
LM-B-3	0.0-0.5	4-Oct-06	0.021 U	0.0194 J	0.0221 J	0.033 U	0.0213 J	0.023 U	0.028 U	0.036	0.022 U	0.018 U	0.017 U	0.024 U	0.061 U	0.02 U	0.0314 J	0.017 U	0.028 U	0.024 U	0.019 U	0.0315 J
LM-B-4	0.0-0.5	4-Oct-06	0.023 U	0.017 U	0.022 U	0.036 U	0.0216 J	0.025 U	0.03 U	0.025	0.024 U	0.019 U	0.018 U	0.026 U	0.066 U	0.022 U	0.0386 J	0.019 U	0.031 U	0.027 U	0.021 U	0.0353 J
LM-C-1	0.0-0.5	10-Oct-06	0.034 U	0.029 J	0.032 U	0.053 U	0.0319 J	0.037 U	0.045 U	0.053	0.036 U	0.028 U	0.027 U	0.038 U	0.098 U	0.033 U	0.0389 J	0.028 U	0.046 U	0.04 U	0.031 U	0.0367 J
LM-C-2	0.0-0.5	10-Oct-06	0.026 U	0.019 U	0.025 U	0.041 U	0.0243 J	0.028 U	0.034 U	0.028	0.028 U	0.022 U	0.021 U	0.03 U	0.076 U	0.025 U	0.0512 J	0.022 U	0.035 U	0.03 U	0.024 U	0.0402 J
LM-C-2 DUP	0.0-0.5	10-Oct-06	0.03 U	0.022 U	0.029 U	0.048 U	0.0427 J	0.033 U	0.04 U	0.033	0.032 U	0.026 U	0.024 U	0.035 U	0.088 U	0.029 U	0.0914 J	0.025 U	0.041 U	0.036 U	0.028 U	0.069 J
LM-C-3	0.0-0.5	10-Oct-06	0.263	0.353	0.508	0.374	0.402	0.056 J	0.174	0.51	0.0727 J	0.0432 J	0.0694 J	0.149 J	0.11 U	0.036 U	0.288	0.031 U	0.05 U	0.044 U	0.0518 J	0.29
LM-C-4	0.0-0.5	10-Oct-06	0.034 U	0.024 U	0.032 U	0.053 U	0.0396 J	0.037 U	0.045 U	0.036	0.036 U	0.028 U	0.027 U	0.038 U	0.098 U	0.033 U	0.0736 J	0.028 U	0.046 U	0.04 U	0.031 U	0.0619 J
LM-D-1	0.0-0.5	9-Oct-06	0.149 J	0.131 J	0.143 J	0.174 J	0.162 J	0.066 U	0.08 U	0.20	0.064 U	0.051 U	0.049 U	0.101 J	0.18 U	0.058 U	0.274	0.05 U	0.082 U	0.071 U	0.0892 J	0.25
LM-D-2	0.0-0.5	9-Oct-06	0.184 J	0.234 J	0.223 J	0.15 U	0.218 J	0.11 U	0.13 U	0.34	0.1 U	0.083 U	0.079 U	0.151 J	0.29 U	0.095 U	0.378 J	0.082 U	0.13 U	0.12 U	0.13 J	0.329 J
LM-D-3	0.0-0.5	9-Oct-06	1.49	1.13	1.1	1.39	1.53	0.141 J	0.376	1.6	0.0854 J	0.451	0.671	0.34	0.22 U	0.0813 J	2.96	0.299 J	0.1 U	0.09 U	2.19	2.83
LM-D-4	0.0-0.5	9-Oct-06	0.317 J	0.347 J	0.423 J	0.365 J	0.466	0.11 U	0.146 J	0.49	0.11 U	0.086 U	0.146 J	0.17 J	0.3 U	0.099 U	0.714	0.085 U	0.14 U	0.12 U	0.462	0.781
LM-E-1	0.0-0.5	9-Oct-06	0.279 J	0.285 J	0.231 J	0.375	0.319 J	0.089 U	0.203 J	0.40	0.087 U	0.069 U	0.066 U	0.228 J	0.24 U	0.079 U	0.565	0.068 U	0.11 U	0.096 U	0.246 J	0.545
LM-E-2	0.0-0.5	9-Oct-06	0.08 U	0.057 U	0.075 U	0.12 U	0.0784 J	0.086 U	0.1 U	0.085	0.084 U	0.067 U	0.064 U	0.09 U	0.23 U	0.077 U	0.139 J	0.066 U	0.11 U	0.093 U	0.072 U	0.12 J
LM-E-3	0.0-0.5	5-Oct-06	0.27 UJ	0.307 J	0.26 UJ	0.42 UJ	0.21 UJ	0.29 UJ	0.36 UJ	0.50	0.29 UJ	0.23 UJ	0.22 UJ	0.31 UJ	0.79 UJ	0.26 UJ	0.306 J	0.23 UJ	0.37 UJ	0.32 UJ	0.25 UJ	0.288 J
LM-E-4	0.0-0.5	5-Oct-06	0.24 UJ	0.17 UJ	0.23 UJ	0.37 UJ	0.18 UJ	0.26 UJ	0.31 UJ	0.26	0.25 UJ	0.2 UJ	0.19 UJ	0.27 UJ	0.69 UJ	0.23 UJ	0.24 J	0.2 UJ	0.32 UJ	0.28 UJ	0.22 UJ	0.176 J
SC-1	0.0-1.0	21-Aug-01	0.09 U	0.114 J	0.09 UJ	0.09 UJ	0.09 U	0.09 UJ	0.09 UJ	0.17	0.09 U	0.09 U	0.09 U	0.0827 J	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.0334 J	0.114
SC-2	0.0-1.0	22-Aug-01	0.201	0.186	0.284	0.112	0.234	0.07 U	0.0706	0.28	0.07 U	0.07 U	0.089	0.0552 J	0.07 U	0.07 U	0.398	0.0252 J	0.07 U	0.07 U	0.23	0.294
SC-3	0.0-1.0	22-Aug-01	0.0875	0.108	0.168	0.0691 J	0.114	0.078 U	0.0544 J	0.18	0.078 U	0.027 J	0.0716 J	0.042 J	0.078 U	0.078 U	0.136	0.078 U	0.078 U	0.078 U	0.0732 J	0.114
SED-1	0.0-0.5	22-Aug-01	0.76	0.289	1.04	0.402	1.29	0.0806 J	0.236	0.58	0.091 U	0.0606 J	0.236	0.181	0.0545 J	0.091 U	2.57	0.091 U	0.091 U	0.091 U	0.145	1.47
SED-2	0.0-0.5	22-Aug-01	4.02	1.72	7.52	2.45	9.63	0.454	1.53	3.5	0.128 J	0.645	1.75	1.03	0.18 U	0.111 J	33.6	0.155 J	0.18 U	0.254	0.697	16.3
SED-3	0.0-0.5	22-Aug-01	0.0511 J	0.0606 J	0.0964 J	0.0469 J	0.0734 J	0.11 U	0.0501 J	0.14	0.11 U	0.11 U	0.0298 J	0.0498 J	0.11 U	0.11 U	0.14	0.11 U	0.11 U	0.11 U	0.0346 J	0.122
SED-4	0.0-0.5	22-Aug-01	0.0652 J	0.057 J	0.0794 J	0.04 J	0.0752 J	0.14 UJ	0.0414 J	0.15	0.14 UJ	0.14 UJ	0.14 UJ	0.0399 J	0.14 UJ	0.14 UJ	0.142 J	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.139 J
SED-5	0.0-0.5	22-Aug-01	0.24 UJ	0.0796 J	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ
SED-7	0.0-0.5	10-Oct-06	0.827	0.684	1.45	1.06	1.77	0.156 J	0.425	1.1	0.067 U	0.145 J	0.422	0.395	0.18 U	0.061 U	4.06	0.0603 J	0.086 U	0.074 U	1.12	2.07
SED-8	0.0-0.5	10-Oct-06	0.173	0.205	0.418	0.217	0.36	0.044 U	0.126 J	0.30	0.043 U	0.0402 J	0.092 J	0.131 J	0.12 U	0.039 U	0.471	0.034 U	0.055 U	0.047 U	0.114 J	0.474
SED-9	0.0-0.5	10-Oct-06	1.54	1.19	1.32	1.13	1.92	0.208	0.522	1.7	0.201	0.0674 J	0.962	0.483	0.085 U	0.106 J	4.09	0.26	0.039 U	0.0459 J	2.3	3.46
SED-A-1	0.0-0.5	9-Oct-06	0.255 J	0.269 J	0.238 J	0.259 J	0.338	0.084 U	0.119 J	0.38	0.082 U	0.065 U	0.239 J	0.16 J	0.23 U	0.075 U	0.85	0.064 U	0.1 U	0.09 U	0.194 J	0.619
SED-A-2	0.0-0.5	9-Oct-06	3.48	3	3.38	1.9	3.4	0.591 J	1.6	4.5	0.58 J	0.15 U	1.54	1.67	0.51 U	0.337 J	9.45	0.532 J	0.24 U	0.247 J	5.84	6.68
SED-A-3	0.0-0.5	9-Oct-06	1.03 J	1.04 J	1.55	0.831 J	1.52	0.39 U	0.567 J	1.6	0.38 U	0.3 U	0.352 J	0.54 J	1 U	0.34 U	2.44	0.3 U	0.48 U	0.42 U	0.723 J	1.8
SED-B-1	0.0-0.5	6-Oct-06	2.5	1.93	2.59	2.02	2.19	0.263	0.769	2.8	0.201	0.438	0.895	0.6	0.13 U	0.222	4.55	0.555	0.059 U	0.0721 J	3.33	4.74
SED-B-2	0.0-0.5	6-Oct-06	0.0591 J	0.0544 J	0.0864 J	0.0596 J	0.106	0.023 U	0.027 U	0.083	0.022 U	0.018 U	0.0222 J	0.024 U	0.061 U	0.02 U	0.117	0.017 U	0.028 U	0.024 U	0.0355 J	0.13
SED-B-3	0.0-0.5	6-Oct-06	0.149	0.201	0.218	0.182	0.209	0.0454 J	0.108 J	0.30	0.031 U	0.0309 J	0.061 J	0.124	0.084 U	0.028 U	0.32	0.024 U	0.039 U	0.034 U	0.0982 J	0.378
SED-C-1	0.0-0.5	6-Oct-06	0.482	0.43	0.642	0.441	0.598	0.0956 J	0.249 J	0.67	0.063 U	0.0761 J	0.166 J	0.253	0.17 U	0.058 U	1.07	0.05 U	0.081 U	0.07 U	0.304	0.95

ATTACHMENT A
Supplemental Data Tables

Table A-3.6a
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Semivolatile Organic Compounds (Polycyclic Aromatic Hydrocarbons)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Carcinogenic Polycyclic Aromatic Hydrocarbons (mg/kg) (1)								Polycyclic Aromatic Hydrocarbons (mg/kg)											
			Benzo(a) Anthracene	Benzo(a) Pyrene	Benzo(b) fluoranthene	Benzo(k) fluor anthene	Chrysene	Dibenz(a,H) Anthracene	Indeno (1,2,3-c,d) Pyrene	Benzo(a) pyrene TEQ	Acenaph thene	Acenaph thylene	Anthracene	Benzo (g,H,i) Perylene	2-Chloro naph thalene	Dibenzo furan	Fluor anthene	Fluorene	2-Methyl naph thalene	Naph thalene	Phenan threne	Pyrene
		TEF:	0.1	1.0	0.1	0.01	0.001	1.0	0.1													
SED-C-2	0.0-0.5	6-Oct-06	0.192 J	0.233	0.337	0.19 J	0.279	0.051 U	0.127 J	0.33	0.05 U	0.04 U	0.0765 J	0.127 J	0.14 U	0.046 U	0.49	0.039 U	0.064 U	0.055 U	0.197 J	0.562
SED-C-3	0.0-0.5	6-Oct-06	0.329	0.403	0.626	0.421	0.465	0.05 U	0.246	0.55	0.049 U	0.0943 J	0.166 J	0.235	0.13 U	0.045 U	0.725	0.039 U	0.063 U	0.054 U	0.26	1.24
SED-D-1	0.0-0.5	5-Oct-06	0.417 J	0.407 J	0.454 J	0.5 UJ	0.684 J	0.35 UJ	0.42 UJ	0.69	0.34 UJ	0.27 UJ	0.26 UJ	0.37 UJ	0.93 UJ	0.31 UJ	0.549 J	0.27 UJ	0.43 UJ	0.38 UJ	0.29 UJ	0.442 J
SED-D-2	0.0-0.5	5-Oct-06	0.399 J	0.635 J	1.25 J	0.644 J	0.615 J	0.0918 J	0.242 J	0.92	0.056 UJ	0.0851 J	0.131 J	0.265 J	0.15 UJ	0.051 UJ	0.039 UJ	0.044 UJ	0.071 UJ	0.062 UJ	0.136 J	0.911 J
SED-D-3	0.0-0.5	5-Oct-06	0.523 J	0.62 J	0.85 J	0.76 UJ	0.732 J	0.53 UJ	0.64 UJ	1.1	0.51 UJ	0.41 UJ	0.39 UJ	0.55 UJ	1.4 UJ	0.47 UJ	1.09 J	0.4 UJ	0.65 UJ	0.56 UJ	0.44 UJ	0.762 J
SED-E-1	0.0-0.5	3-Oct-06	0.134 J	0.117 J	0.119 J	0.138 J	0.198 J	0.088 UJ	0.11 UJ	0.19	0.086 UJ	0.068 UJ	0.065 UJ	0.092 UJ	0.23 UJ	0.078 UJ	0.302 J	0.067 UJ	0.11 UJ	0.094 UJ	0.0898 J	0.297 J
SED-E-2	0.0-0.5	5-Oct-06	0.694 J	0.405 J	0.535 J	0.361 J	0.665 J	0.0584 J	0.175 J	0.61	0.043 UJ	0.0571 J	0.158 J	0.174 J	0.12 UJ	0.039 UJ	1.66 J	0.0433 J	0.055 UJ	0.0522 J	0.425 J	1.6 J
SED-E-3	0.0-0.5	3-Oct-06	0.363 J	0.386 J	0.542 J	0.387 J	0.51 J	0.09 UJ	0.15 J	0.54	0.088 UJ	0.0901 J	0.144 J	0.168 J	0.24 UJ	0.08 UJ	0.839 J	0.069 UJ	0.11 UJ	0.097 UJ	0.227 J	0.839 J

Notes:
(1) Carcinogenic PAHs were converted to a benzo(a)pyrene [(B(a)P] equivalent concentration using the Toxic Equivalency Factors presented in the table and summed to calculate a B(a)P Toxic Equivalency Quotient (TEQ). Non-detect results were summed using one-half the method detection limit (MDL).
For duplicate carcinogenic PAH samples, the B(a)P TEQ was calculated prior to applying the duplicate handling process described below.

mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; MDL presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables
Table A-3.6b
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Semivolatile Organic Compounds (mg/kg)													
			Bis(2-Ethyl hexyl) Phthalate	Butyl Benzyl Phthalate	Carbazole	1,2-Dichloro benzene	1,3-Dichloro benzene	1,4-Dichloro benzene	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Hexachloro benzene	Hexachloro butadiene	Hexachloro ethane	1,2,4-Trichloro benzene
BSL-1	0.0-1.0	20-Sep-01	0.0831	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.2 U	0.079 U
BSL-2	0.0-1.0	21-Sep-01	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U	0.1 U
BSL-3	0.0-0.5	20-Sep-01	0.0409 J	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.18 U	0.071 U
BSL-4	0.0-1.0	21-Sep-01	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.086 U	0.22 U	0.086 U
BSL-5	0.0-0.5	21-Sep-01	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.2 U	0.082 U
BSL-6	0.0-1.0	26-Sep-01	0.18	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.27 U	0.11 U
BSL-7	0.0-0.5	21-Sep-01	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.24 U	0.098 U
BSL-7 DUP	0.0-0.5	21-Sep-01	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.26 U	0.1 U
BSL-8	0.0-1.0	26-Sep-01	0.317	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.3 U	0.12 U
BSL-9	0.0-0.5	21-Sep-01	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.21 U	0.084 U
BSL-10	0.0-1.0	21-Sep-01	0.105	0.099 U	0.099 U	0.159	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 UJ	0.0433 J	0.099 U	0.053 J	0.099 U
BSL-10 DUP	0.0-1.0	21-Sep-01	0.091 U	0.091 U	0.091 U	0.604	0.091 U	0.026 J	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.23 U	0.076 J
BSL-11	0.0-1.0	26-Sep-01	0.138	0.096 U	0.096 U	0.162	0.246	0.342	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.24 U	0.096 U
BSL-12	0.0-1.0	26-Sep-01	0.076 U	0.076 U	0.076 U	0.102	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.19 U	0.076 U
CF-2	0.0-0.5	28-Aug-01	0.0864	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.12	0.875	0.21 U	0.129
CF-3	0.0-0.5	28-Aug-01	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.0198 J	0.099 U	0.099 U	0.099 U	0.099 U	0.0927 J	0.25 U	0.102
CF-4	0.0-0.5	28-Aug-01	0.0725 J	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.087 U	0.141	0.087 U	0.22 U	0.0562 J
EC-1	0.0-1.0	21-Aug-01	0.0559 J	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.076 U	0.19 U	0.076 U
EC-2	0.0-1.0	21-Aug-01	0.0788	0.075 U	0.0363 J	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U	0.19 U	0.075 U
EC-3	0.0-1.0	21-Aug-01	0.0517 J	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 UJ	0.071 U	0.071 U	0.18 U	0.071 U
EC-4	0.0-1.0	21-Aug-01	0.0745	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 UJ	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U
EC-4 DUP	0.0-1.0	21-Aug-01	0.0484 J	0.071 U	0.0246 J	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.18 U	0.071 U
EC-5	0.0-1.0	21-Aug-01	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.18 U	0.074 U
EC-6	0.0-1.0	21-Aug-01	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.21 U	0.082 U
EC-7	0.0-1.0	21-Aug-01	0.0959	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.0414 J	0.08 UJ	0.08 U	0.08 U	0.2 U	0.08 U
EC-8	0.0-1.0	21-Aug-01	0.119	0.074 U	0.0208 J	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 UJ	0.074 U	0.074 U	0.18 U	0.074 U
EC-9	0.0-1.0	21-Aug-01	1.7	0.124	0.0502 J	0.087 U	0.087 U	0.087 U	0.087 U	0.126	0.202	0.125 J	0.087 U	0.087 U	0.22 U	0.087 U
LM-A-1	0.0-0.5	21-Sep-06	0.975 J	0.071 UJ	0.038 UJ	0.17 UJ	0.18 UJ	0.172 J	0.04 UJ	0.04 UJ	0.06 UJ	0.08 UJ	0.054 UJ	0.062 UJ	0.047 UJ	0.13 UJ
LM-A-2	0.0-0.5	21-Sep-06	1.08 J	0.066 UJ	0.035 UJ	0.12 UJ	0.13 UJ	0.12 UJ	0.038 UJ	0.038 UJ	0.056 UJ	0.498 J	0.05 UJ	0.058 UJ	0.044 UJ	0.219 J
LM-A-3	0.0-0.5	21-Sep-06	3.18 J	0.062 UJ	0.033 UJ	0.379 J	0.15 UJ	0.176 J	0.035 UJ	0.035 UJ	0.052 UJ	0.07 UJ	0.047 UJ	0.054 UJ	0.041 UJ	1.01 J
LM-A-4	0.0-0.5	10-Oct-06	0.4	0.067 U	0.036 U	1.14 J	0.25 J	0.888 J	0.038 U	0.038 U	0.057 U	0.076 U	0.051 U	0.059 U	0.0615 J	1.16 J
LM-B-1	0.0-0.5	10-Oct-06	0.204	0.054 U	0.029 U	0.078 U	0.084 U	0.079 U	0.031 U	0.031 U	0.045 U	0.061 U	0.0471 J	0.047 U	0.036 U	0.06 U
LM-B-2	0.0-0.5	10-Oct-06	0.659	0.046 U	0.025 U	0.062 U	0.067 U	0.063 U	0.026 U	0.026 U	0.039 U	0.052 U	0.175	0.04 U	0.031 U	0.048 U
LM-B-3	0.0-0.5	4-Oct-06	0.056 U	0.033 U	0.018 U	0.034 U	0.036 U	0.034 U	0.019 U	0.019 U	0.028 U	0.037 U	0.025 U	0.029 U	0.022 U	0.026 U
LM-B-4	0.0-0.5	4-Oct-06	0.061 U	0.036 U	0.019 U	0.039 U	0.042 U	0.039 U	0.02 U	0.02 U	0.03 U	0.041 U	0.027 U	0.031 U	0.024 U	0.03 U
LM-C-1	0.0-0.5	10-Oct-06	0.125 J	0.053 U	0.028 U	1.64	0.11 U	0.16 J	0.03 U	0.03 U	0.045 U	0.06 U	0.04 U	0.046 U	0.0714 J	0.127 J
LM-C-2	0.0-0.5	10-Oct-06	0.228	0.041 U	0.022 U	0.175 J	0.0648 J	0.139 J	0.023 U	0.023 U	0.034 U	0.046 U	0.031 U	0.036 U	0.061 J	0.043 U
LM-C-2 DUP	0.0-0.5	10-Oct-06	0.362	0.048 U	0.026 U	0.123 J	0.07 U	0.0894 J	0.027 U	0.027 U	0.04 U	0.054 U	0.036 U	0.042 U	0.0856 J	0.05 U
LM-C-3	0.0-0.5	10-Oct-06	1.07	0.059 U	0.031 U	0.179 J	0.731 J	0.981 J	0.033 U	0.033 U	0.049 U	0.066 U	0.045 U	0.051 U	0.039 U	0.144 J
LM-C-4	0.0-0.5	10-Oct-06	0.532	0.053 U	0.028 U	0.87	2.34	9.97	0.03 U	0.03 U	0.045 U	0.06 U	0.04 U	0.046 U	0.035 U	0.052 U
LM-D-1	0.0-0.5	9-Oct-06	0.491	0.095 U	0.051 U	0.19 U	0.2 U	0.19 U	0.054 U	0.054 U	0.08 U	0.11 U	0.072 U	0.083 U	0.063 U	0.15 U
LM-D-2	0.0-0.5	9-Oct-06	0.295 J	0.15 U	0.083 U	0.32 U	0.35 U	0.33 U	0.088 U	0.088 U	0.13 U	0.17 U	0.12 U	0.13 U	0.1 U	0.25 U
LM-D-3	0.0-0.5	9-Oct-06	2.21	0.12 U	0.078 J	0.26 U	0.28 U	0.26 U	0.068 U	0.068 U	0.1 U	0.14 U	0.092 U	0.1 U	0.08 U	0.2 U
LM-D-4	0.0-0.5	9-Oct-06	0.958	0.16 U	0.086 U	0.36 U	0.38 U	0.36 U	0.091 U	0.091 U	0.14 U	0.18 U	0.12 U	0.14 U	0.11 U	0.28 U
LM-E-1	0.0-0.5	9-Oct-06	0.22 U	0.13 U	0.069 U	0.486 J	0.32 U	0.562 J	0.073 U	0.073 U	0.11 U	0.15 U	0.098 U	0.11 U	0.085 U	0.747 J
LM-E-2	0.0-0.5	9-Oct-06	0.364	0.12 U	0.067 U	0.26 U	0.28 U	0.26 U	0.071 U	0.071 U	0.1 U	0.14 U	0.095 U	0.11 U	0.082 U	0.2 U
LM-E-3	0.0-0.5	5-Oct-06	1.55 J	0.42 UJ	0.23 UJ	0.17 UJ	0.18 UJ	0.17 UJ	0.24 UJ	0.24 UJ	0.36 UJ	0.48 UJ	0.32 UJ	0.37 UJ	0.28 UJ	0.13 UJ
LM-E-4	0.0-0.5	5-Oct-06	0.63 UJ	0.37 UJ	0.2 UJ	0.14 UJ	0.15 UJ	0.14 UJ	0.21 UJ	0.21 UJ	0.31 UJ	0.42 UJ	0.28 UJ	0.33 UJ	0.25 UJ	0.11 UJ
SC-1	0.0-1.0	21-Aug-01	2.1	0.568	0.09 U	0.0355 J	0.09 U	0.09 U	0.09 U	0.09 U	0.158	0.09 UJ	0.547	0.09 U	0.22 U	0.09 U
SC-2	0.0-1.0	22-Aug-01	0.113	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.17 U	0.07 U
SC-3	0.0-1.0	22-Aug-01	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.2 U	0.078 U
SED-1	0.0-0.5	22-Aug-01	0.421	0.091 U	0.064 J	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.23 U	0.216
SED-2	0.0-0.5	22-Aug-01	3.03	0.18 U	0.72	0.083 J	0.18 U	0.116 J	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.44 U	0.145 J
SED-3	0.0-0.5	22-Aug-01	1.1	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.27 U	0.11 U

ATTACHMENT A
Supplemental Data Tables
Table A-3.6b
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Semivolatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Semivolatile Organic Compounds (mg/kg)													
			Bis(2-Ethyl hexyl) Phthalate	Butyl Benzyl Phthalate	Carbazole	1,2-Dichloro benzene	1,3-Dichloro benzene	1,4-Dichloro benzene	Diethyl Phthalate	Dimethyl Phthalate	Di-N-Butyl Phthalate	Di-N-Octyl Phthalate	Hexachloro benzene	Hexachloro butadiene	Hexachloro ethane	1,2,4-Trichloro benzene
SED-4	0.0-0.5	22-Aug-01	0.982 J	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.36 UJ	0.144 J
SED-5	0.0-0.5	22-Aug-01	0.24 UJ	0.24 UJ	0.24 UJ	0.57 J	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.59 UJ	0.24 UJ
SED-7	0.0-0.5	10-Oct-06	1.23	0.1 U	0.219 J	0.15 U	0.16 U	0.16 U	0.056 U	0.652	0.084 U	0.11 U	0.076 U	0.087 U	0.066 U	0.12 U
SED-8	0.0-0.5	10-Oct-06	1.14	0.064 U	0.0413 J	0.105 J	0.093 U	0.277 J	0.036 U	0.036 U	0.053 U	0.072 U	0.048 U	0.055 U	0.042 U	0.191 J
SED-9	0.0-0.5	10-Oct-06	0.661	0.046 U	0.124	0.061 U	0.066 U	0.062 U	0.026 U	0.026 U	0.038 U	0.052 U	0.035 U	0.0678 J	0.03 U	0.047 U
SED-A-1	0.0-0.5	9-Oct-06	26.5	0.12 U	0.065 U	0.183	0.309	0.377	0.069 U	0.069 U	0.1 U	0.14 U	0.092 U	0.11 U	0.08 U	0.555
SED-A-2	0.0-0.5	9-Oct-06	2.37	0.476 J	0.767	7.12	0.808	15.1	0.15 U	0.15 U	7.3	0.31 U	0.21 U	0.24 U	0.18 U	11.8
SED-A-3	0.0-0.5	9-Oct-06	1.34 J	0.56 U	0.3 U	0.0022 U	0.0023 U	0.0057 J	0.32 U	0.32 U	0.47 U	0.63 U	0.43 U	0.49 U	0.37 U	0.0017 U
SED-B-1	0.0-0.5	6-Oct-06	2.68	0.069 U	0.178 J	0.0013 U	0.0014 U	0.0013 U	0.039 U	0.039 U	0.058 U	0.078 U	0.12 J	0.06 U	0.046 U	0.001 U
SED-B-2	0.0-0.5	6-Oct-06	0.352	0.033 U	0.017 U	0.00074 J	0.00087 J	0.0054 J	0.019 U	0.019 U	0.028 U	0.037 U	0.025 U	0.029 U	0.022 U	0.0018 J
SED-B-3	0.0-0.5	6-Oct-06	1.02	0.046 U	0.024 U	0.0008 U	0.00085 U	0.00081 U	0.026 U	0.026 U	0.038 U	0.052 U	0.035 U	0.04 U	0.03 U	0.00061 U
SED-C-1	0.0-0.5	6-Oct-06	2.22	0.094 U	0.05 U	0.0016 U	0.0017 U	0.0016 U	0.053 U	0.053 U	0.079 U	0.11 U	0.071 U	0.082 U	0.062 U	0.0012 U
SED-C-2	0.0-0.5	6-Oct-06	1.73	0.074 U	0.04 U	0.0173	0.0157 J	0.0318	0.042 U	0.042 U	0.062 U	0.084 U	0.056 U	0.065 U	0.049 U	0.0185
SED-C-3	0.0-0.5	6-Oct-06	3.59	0.073 U	0.049 J	0.0014 U	0.0015 U	0.0034 J	0.041 U	0.041 U	0.061 U	0.082 U	0.055 U	0.063 U	0.048 U	0.0011 U
SED-D-1	0.0-0.5	5-Oct-06	1.25 J	0.5 UJ	0.27 UJ	0.0018 UJ	0.002 UJ	0.0019 UJ	0.29 UJ	0.29 UJ	0.42 UJ	0.57 UJ	0.38 UJ	0.44 UJ	0.33 UJ	0.0014 UJ
SED-D-2	0.0-0.5	5-Oct-06	1.2 J	0.083 UJ	0.0652 J	0.0038 J	0.0017 UJ	0.0041 J	0.047 UJ	0.047 UJ	0.07 UJ	0.323 J	0.063 UJ	0.072 UJ	0.055 UJ	0.0012 UJ
SED-D-3	0.0-0.5	5-Oct-06	1.55 J	0.76 UJ	0.41 UJ	0.0023 UJ	0.0024 UJ	0.0065 J	0.43 UJ	0.43 UJ	0.64 UJ	0.86 UJ	0.58 UJ	0.66 UJ	0.5 UJ	0.0017 UJ
SED-E-1	0.0-0.5	3-Oct-06	0.693 UJ	0.13 UJ	0.068 UJ	0.0025 UJ	0.0027 UJ	0.0025 UJ	0.072 UJ	0.072 UJ	0.11 UJ	0.14 UJ	0.096 UJ	0.11 UJ	0.084 UJ	0.0019 UJ
SED-E-2	0.0-0.5	5-Oct-06	3.03 J	0.064 UJ	0.0742 J	0.0028 J	0.0018 J	0.0031 J	0.036 UJ	0.036 UJ	0.054 UJ	0.072 UJ	0.049 UJ	0.056 UJ	0.042 UJ	0.0009 UJ
SED-E-3	0.0-0.5	3-Oct-06	2.84 UJ	0.13 UJ	0.07 UJ	0.0023 UJ	0.0024 UJ	0.0023 UJ	0.074 UJ	0.074 UJ	0.11 UJ	0.15 UJ	0.099 UJ	0.11 UJ	0.086 UJ	0.0018 UJ

Notes:

mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; MDL presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables
Table A-3.7
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Volatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Volatile Oragnic Compounds (mg/kg)																	
			Acetic Acid, Methyl Ester	Acetone	Benzal dehyde	Benzene	2-Butanone (MEK)	Carbon Disulfide	Chloro-benzene	Chloroform	1,1-Dichloro ethene	1,2-Dichloro ethane	Ethyl benzene	Methylene Chloride	Tetrachloro ethylene (PCE)	Toluene	Trichloro trifluoro ethane	M,P-Xylene (sum of isomers)	O-Xylene	Xylenes, Mixed
BSL-1	0.0-1.0	20-Sep-01	--	0.0508	--	0.0012 U	0.0106	0.0058 U	0.0058 U	0.0012 J	0.0011 J	0.0058 U	0.0012 U	0.0058 UJ	0.0058 U	0.0012 U	--	--	--	0.0023 U
BSL-2	0.0-1.0	21-Sep-01	--	0.0943	--	0.0015 U	0.0076 U	0.0192	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0015 U	0.0076 UJ	0.0076 U	0.0015 U	--	--	--	0.003 U
BSL-3	0.0-0.5	20-Sep-01	--	0.0172	--	0.001 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.00089 J	0.0052 U	0.001 U	0.0056 UJ	0.0052 U	0.001 U	--	--	--	0.0021 U
BSL-4	0.0-1.0	21-Sep-01	--	0.129	--	0.0014 U	0.0134	0.0048 J	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0014 U	0.0072 UJ	0.0072 U	0.0014 U	--	--	--	0.0029 U
BSL-5	0.0-0.5	21-Sep-01	--	0.0213	--	0.001 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.001 U	0.0052 UJ	0.0052 U	0.001 U	--	--	--	0.0021 U
BSL-6	0.0-1.0	26-Sep-01	--	0.0072 U	--	0.0014 U	0.0072 U	0.01	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0014 U	0.0072 UJ	0.0072 U	0.0014 U	--	--	--	0.0029 U
BSL-7	0.0-0.5	21-Sep-01	--	0.0474	--	0.0013 U	0.0064 U	0.002 J	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0013 U	0.0088 UJ	0.0064 U	0.0013 U	--	--	--	0.0026 U
BSL-7 DUP	0.0-0.5	21-Sep-01	--	0.0505	--	0.0014 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0068 U	0.0014 U	0.0068 UJ	0.0068 U	0.0014 U	--	--	--	0.0027 U
BSL-8	0.0-1.0	26-Sep-01	--	0.0995 J	--	0.0019 U	0.0094 U	0.0434	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0019 U	0.0094 UJ	0.0094 U	0.0019 U	--	--	--	0.0037 U
BSL-9	0.0-0.5	21-Sep-01	--	0.0777	--	0.0011 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0057 U	0.0011 U	0.0057 UJ	0.0057 U	0.0011 U	--	--	--	0.0023 U
BSL-10	0.0-1.0	21-Sep-01	--	0.197	--	0.0014 U	0.007 U	0.007	0.007 U	0.0036 J	0.007 U	0.007 U	0.0014 U	0.008 UJ	0.007 U	0.0014 U	--	--	--	0.0028 U
BSL-10 DUP	0.0-1.0	21-Sep-01	--	0.186	--	0.0013 U	0.0063 U	0.0094	0.0063 U	0.0037 J	0.0063 U	0.0063 U	0.0013 U	0.0092	0.0063 U	0.0013 U	--	--	--	0.0025 U
BSL-11	0.0-1.0	26-Sep-01	--	0.0058 U	--	0.0012 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0058 U	0.0012 U	0.0058 UJ	0.0058 U	0.0012 U	--	--	--	0.0023 U
BSL-12	0.0-1.0	26-Sep-01	--	0.0766	--	0.001 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.0052 U	0.001 U	0.0052 UJ	0.0052 U	0.001 U	--	--	--	0.0021 U
BSL-101	0.0-1.0	6-Dec-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CF-2	0.0-0.5	28-Aug-01	--	0.036	--	0.0026 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 UJ	0.0065 U	0.0065 U	--	--	--	0.0065 U
CF-3	0.0-0.5	28-Aug-01	--	0.009 U	--	0.0036 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.0101 UJ	0.009 U	0.009 U	--	--	--	0.009 U
CF-4	0.0-0.5	28-Aug-01	--	0.0645	--	0.0025 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 UJ	0.0064 U	0.0064 U	--	--	--	0.0064 U
EC-1	0.0-1.0	21-Aug-01	--	0.0064 U	--	0.0026 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0107 UJ	0.0064 U	0.0064 U	--	--	--	0.0064 U
EC-2	0.0-1.0	21-Aug-01	--	0.0085 U	--	0.0034 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0113 UJ	0.0085 U	0.0085 U	--	--	--	0.0085 U
EC-3	0.0-1.0	21-Aug-01	--	0.007 U	--	0.0028 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.0082 UJ	0.007 U	0.007 U	--	--	--	0.007 U
EC-4	0.0-1.0	21-Aug-01	--	0.0088 U	--	0.0035 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.0088 U	0.01 UJ	0.0088 U	0.0088 U	--	--	--	0.0088 U
EC-4 DUP	0.0-1.0	21-Aug-01	--	0.0374	--	0.0025 U	0.0062 U	0.0077	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0089 UJ	0.0062 U	0.0062 U	--	--	--	0.0062 U
EC-5	0.0-1.0	21-Aug-01	--	0.0051 U	--	0.002 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0051 U	0.0076 UJ	0.0051 U	0.0051 U	--	--	--	0.0051 U
EC-6	0.0-1.0	21-Aug-01	--	0.0065 U	--	0.0026 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.0065 U	0.01 UJ	0.0065 U	0.0065 U	--	--	--	0.0065 U
EC-7	0.0-1.0	21-Aug-01	--	0.0074 U	--	0.003 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0074 U	0.0098 UJ	0.0074 U	0.0074 U	--	--	--	0.0074 U
EC-8	0.0-1.0	21-Aug-01	--	0.0067 U	--	0.0027 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0067 U	0.0106 UJ	0.0067 U	0.0067 U	--	--	--	0.0067 U
EC-9	0.0-1.0	21-Aug-01	--	0.244	--	0.0026 U	0.0324	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0064 U	0.0102 UJ	0.0064 U	0.0064 U	--	--	--	0.0064 U
LM-A-1	0.0-0.5	21-Sep-06	1.48 J	1.1 UJ	0.1 UJ	0.18 UJ	1 UJ	0.314 J	0.16 UJ	0.22 UJ	0.26 UJ	0.2 UJ	0.17 U	0.26 UJ	0.31 UJ	0.2 UJ	0.32 UJ	0.33 UJ	0.18 UJ	0.18 UJ
LM-A-2	0.0-0.5	21-Sep-06	4.87 J	0.76 UJ	0.096 UJ	0.13 UJ	0.72 UJ	0.15 UJ	0.11 UJ	0.15 UJ	0.18 UJ	0.14 UJ	0.12 UJ	0.18 UJ	0.22 UJ	0.14 UJ	0.23 UJ	0.23 UJ	0.13 UJ	0.13 UJ
LM-A-3	0.0-0.5	21-Sep-06	2.67 J	0.88 UJ	0.09 UJ	0.15 UJ	0.84 UJ	0.17 UJ	0.269 J	0.18 UJ	0.21 UJ	0.449 J	0.14 UJ	0.21 UJ	0.25 UJ	0.17 UJ	0.26 UJ	0.27 UJ	0.15 UJ	0.15 UJ
LM-A-4	0.0-0.5	10-Oct-06	1.67	0.68 U	0.098 U	0.11 U	0.65 U	0.13 U	1.19 J	0.978 J	0.16 U	0.332	0.11 U	0.16 U	0.285 J	0.13 U	0.2 U	0.21 U	0.12 U	0.12 U
LM-B-1	0.0-0.5	10-Oct-06	0.24 U	0.49 U	0.078 U	0.135 J	0.47 U	0.095 U	0.161 J	0.1 U	0.12 U	0.094 U	0.078 U	0.12 U	0.14 U	0.093 U	0.15 U	0.15 U	0.085 U	0.085 U
LM-B-2	0.0-0.5	10-Oct-06	0.19 U	0.39 U	0.067 U	0.065 U	0.37 U	0.075 U	0.059 U	0.08 U	0.094 U	0.074 U	0.062 U	0.094 U	0.11 U	0.074 U	0.12 U	0.12 U	0.067 U	0.067 U
LM-B-3	0.0-0.5	4-Oct-06	0.1 U	0.21 U	0.048 U	0.036 U	0.2 U	0.041 U	0.032 U	0.043 U	0.051 U	0.04 U	0.033 U	0.051 U	0.061 U	0.04 U	0.063 U	0.065 U	0.037 U	0.037 U
LM-B-4	0.0-0.5	4-Oct-06	0.12 U	0.24 U	0.052 U	0.041 U	0.23 U	0.047 U	0.037 U	0.05 U	0.059 U	0.046 U	0.039 U	0.059 U	0.07 U	0.046 U	0.073 U	0.075 U	0.042 U	0.042 U
LM-C-1	0.0-0.5	10-Oct-06	9.54	0.62 U	0.077 U	0.1 U	0.59 U	0.196 J	0.094 U	0.13 U	0.15 U	0.12 U	0.098 U	0.15 U	0.18 U	0.12 U	0.19 U	0.19 U	0.11 U	0.11 U
LM-C-2	0.0-0.5	10-Oct-06	1.18	0.36 U	0.059 U	0.06 U	0.34 U	0.069 U	0.054 U	0.072 U	0.085 U	0.067 U	0.056 U	0.086 U	0.1 U	0.067 U	0.11 U	0.11 U	0.061 U	0.061 U
LM-C-2 DUP	0.0-0.5	10-Oct-06	4.31	0.41 U	0.069 U	0.069 U	0.39 U	0.161 J	0.062 U	0.083 U	0.098 U	0.078 U	0.065 U	0.099 U	0.12 U	0.078 U	0.12 U	0.13 U	0.071 U	0.071 U
LM-C-3	0.0-0.5	10-Oct-06	6.97	0.67 U	0.085 U	0.11 U	0.64 U	0.13 U	2.94	0.14 U	0.16 U	0.13 U	0.11 U	0.16 U	0.19 U	0.13 U	0.2 U	0.21 U	0.12 U	0.12 U
LM-C-4	0.0-0.5	10-Oct-06	1.17	0.43 U	0.077 U	0.072 U	0.41 U	0.183 J	120	0.087 U	0.1 U	0.081 U	0.067 U	0.1 U	0.12 U	0.081 U	0.13 U	0.13 U	0.074 U	0.074 U
LM-D-1	0.0-0.5	9-Oct-06	7.21	1.2 U	0.14 U	0.2 U	1.1 U	0.23 U	0.18 U	0.24 U	0.29 U	0.23 U	0.19 U	0.29 U	0.34 U	0.23 U	0.36 U	0.36 U	0.21 U	0.21 U
LM-D-2	0.0-0.5	9-Oct-06	9.03	2 U	0.22 U	0.34 U	1.9 U	0.39 U	0.31 U	0.41 U	0.49 U	0.38 U	0.32 U	0.49 U	0.58 U	0.38 U	0.61 U	0.62 U	0.35 U	0.35 U
LM-D-3	0.0-0.5	9-Oct-06	29.7	1.6 U	0.18 U	0.27 U	1.5 U	0.819 J	0.25 U	0.426 J	0.39 U	0.31 U	0.25 U	0.39 U	0.47 U	0.31 U	0.48 U	0.5 U	0.28 U	0.28 U
LM-D-4	0.0-0.5	9-Oct-06	1.1 U	2.3 U	0.23 U	0.38 U	2.1 U	0.43 U	0.34 U	0.46 U	0.54 U	0.43 U	0.35 U	0.54 U	0.65 U	0.43 U	0.67 U	0.69 U	0.39 U	0.39 U
LM-E-1	0.0-0.5	9-Oct-06	6.43	1.9 U	0.19 U	0.31 U	1.8 U	0.5 J	0.28 U	0.38 U	0.45 U	0.35 U	0.29 U	0.45 U	0.53 U	0.35 U	0.56 U	0.57 U	0.32 U	0.32 U
LM-E-2	0.0-0.5	9-Oct-06	13.4	1.6 U	0.18 U	0.28 U	1.6 U	0.32 U	0.25 U	0.34 U	0.4 U	0.31 U	0.26 U	0.4 U	0.47 U	0.31 U	0.49 U	0.5 U	0.28 U	0.28 U
LM-E-3	0.0-0.5	5-Oct-06	5.45 J	1.1 UJ	0.62 UJ	0.18 UJ	1 UJ	0.2 UJ	0.16 UJ	0.21 UJ	0.25 UJ	0.2 UJ	0.17 UJ	0.25 UJ	0.3 UJ	0.2 UJ	0.32 UJ	0.32 UJ	0.18 UJ	0.18 UJ
LM-E-4	0.0-0.5	5-Oct-06	30.9 J	0.89 UJ	0.54 UJ	0.15 UJ	1.76 J	0.17 UJ	0.14 UJ	0.18 UJ	0.21 UJ	0.17 UJ	0.14 UJ	0.22 UJ	0.26 UJ	0.17 UJ	0.27 UJ	0.27 UJ	0.15 UJ	0.15 UJ
SC-1	0.0-1.0	21-Aug-01	--	0.0076 U	--	0.003 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0126 UJ	0.0076 U	0.0076 U	--	--	--	0.0076 U
SC-2	0.0-1.0	22-Aug-01	--	0.194	--	0.0026 U	0.0145	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	--	--	--	0.0066 U
SC-3	0.0-1.0	22-Aug-01	--	0.144	--	0.0028 U	0.015	0.0069 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U	0.0069 U	--	--	--	0.0069 U

ATTACHMENT A
Supplemental Data Tables

Table A-3.7
Summary of Analytical Data for Detected Constituents Evaluated in the HHRA
South Branch Creek Sediment/Bank Soil - Volatile Organic Compounds
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Depth (ft bgs)	Sample Date	Volatile Oragnic Compounds (mg/kg)																	
			Acetic Acid, Methyl Ester	Acetone	Benzal dehyde	Benzene	2-Butanone (MEK)	Carbon Disulfide	Chloro-benzene	Chloroform	1,1-Dichloro ethene	1,2-Dichloro ethane	Ethyl benzene	Methylene Chloride	Tetrachloro ethylene (PCE)	Toluene	Trichloro trifluoro ethane	M,P-Xylene (sum of isomers)	O-Xylene	Xylenes, Mixed
SED-1	0.0-0.5	22-Aug-01	--	0.0605	--	0.0027 U	0.0165	0.0153	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.039 UJ	0.0066 U	0.0066 U	--	--	--	0.0066 U
SED-2	0.0-0.5	22-Aug-01	--	0.157	--	0.0045 U	0.011 U	0.0291	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.619	0.011 U	0.011 U	--	--	--	0.011 U
SED-3	0.0-0.5	22-Aug-01	--	0.219	--	0.0041 U	0.0499	0.0611	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0186 UJ	0.01 U	0.01 U	--	--	--	0.01 U
SED-4	0.0-0.5	22-Aug-01	--	0.21 J	--	0.0044 J	0.015 UJ	0.0433 J	0.0142 J	0.015 UJ	0.015 UJ	0.015 UJ	0.015 UJ	0.0275 J	0.015 UJ	0.0048 J	--	--	--	0.015 UJ
SED-5	0.0-0.5	22-Aug-01	--	0.636 J	--	0.012 UJ	0.135 J	0.208 J	0.031 UJ	0.031 UJ	0.031 UJ	0.031 UJ	0.031 UJ	0.031 UJ	0.031 UJ	0.031 UJ	--	--	--	0.031 UJ
SED-7	0.0-0.5	10-Oct-06	0.656 J	0.96 U	0.305 J	0.16 U	0.92 U	0.19 U	0.15 U	0.2 U	0.23 U	0.18 U	0.15 U	0.23 U	0.28 U	0.18 U	0.29 U	0.3 U	0.17 U	0.17 U
SED-8	0.0-0.5	10-Oct-06	1.46	0.54 U	0.092 U	0.091 U	0.52 U	0.1 U	0.082 U	0.11 U	0.13 U	0.1 U	0.086 U	0.13 U	0.16 U	0.1 U	0.16 U	0.17 U	0.094 U	0.094 U
SED-9	0.0-0.5	10-Oct-06	0.19 U	0.38 U	0.066 U	0.064 U	0.37 U	0.074 U	0.058 U	0.078 U	0.092 U	0.073 U	0.06 U	0.093 U	0.11 U	0.23	0.11 U	0.12 U	0.066 U	0.066 U
SED-A-08	0.0-0.5	15-May-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SED-A-1	0.0-0.5	9-Oct-06	0.007 U	0.014 U	0.18 U	0.0024 U	0.014 U	0.0054 J	0.0577	0.0029 U	0.0034 U	0.0027 U	0.0022 U	0.0034 U	0.0041 U	0.0027 U	0.0042 U	0.0043 U	0.0024 U	0.0024 U
SED-A-2	0.0-0.5	9-Oct-06	0.733 J	0.196	0.4 U	0.008 J	0.037 U	0.0082 J	0.642	0.0079 U	0.0093 U	0.0074 U	0.0325	0.0094 U	0.011 U	0.0074 U	0.0197 J	0.0274	0.0083 J	0.0357
SED-A-3	0.0-0.5	9-Oct-06	0.0067 U	0.014 U	0.81 U	0.0023 U	0.013 U	0.0026 U	0.002 U	0.0028 U	0.0032 U	0.0026 U	0.0021 U	0.0033 U	0.0039 U	0.0026 U	0.004 U	0.0041 U	0.0023 U	0.0023 U
SED-B-08	0.0-0.5	15-May-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SED-B-1	0.0-0.5	6-Oct-06	0.0041 U	0.0084 U	0.1 U	0.0014 U	0.008 U	0.0016 U	0.0013 U	0.0017 U	0.002 U	0.0016 U	0.0013 U	0.002 U	0.0024 U	0.0016 U	0.0025 U	0.0026 U	0.0014 U	0.0014 U
SED-B-2	0.0-0.5	6-Oct-06	0.0019 U	0.0038 U	0.048 U	0.00064 U	0.0036 U	0.00073 U	0.00058 U	0.00077 U	0.00091 U	0.00072 U	0.0006 U	0.00092 U	0.0011 U	0.00072 U	0.0011 U	0.0012 U	0.00066 U	0.00066 U
SED-B-3	0.0-0.5	6-Oct-06	0.0025 U	0.04	0.066 U	0.00084 U	0.0048 U	0.0013 J	0.00076 U	0.001 U	0.0012 U	0.00095 U	0.00079 U	0.0012 U	0.0014 U	0.00095 U	0.0015 U	0.0015 U	0.00086 U	0.00086 U
SED-C-08	0.0-0.5	15-May-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SED-C-1	0.0-0.5	6-Oct-06	0.005 U	0.01 U	0.14 U	0.0017 U	0.0096 U	0.002 U	0.0015 U	0.0021 U	0.0024 U	0.0019 U	0.0016 U	0.0024 U	0.0029 U	0.0019 U	0.003 U	0.0031 U	0.0017 U	0.0017 U
SED-C-2	0.0-0.5	6-Oct-06	0.0044 U	0.121	0.11 U	0.0015 U	0.0086 U	0.0097 J	0.33	0.0018 U	0.0022 U	0.0017 U	0.0014 U	0.0115 J	0.0026 U	0.0017 U	0.0027 U	0.0028 U	0.0016 U	0.0016 U
SED-C-3	0.0-0.5	6-Oct-06	0.0044 U	0.009 U	0.11 U	0.0015 U	0.0086 U	0.0017 U	0.0014 U	0.0018 U	0.0022 U	0.0017 U	0.0014 U	0.0022 U	0.0026 U	0.0017 U	0.0027 U	0.0028 U	0.0015 U	0.0015 U
SED-D-1	0.0-0.5	5-Oct-06	0.0057 UJ	0.0996 J	0.73 UJ	0.0019 UJ	0.011 UJ	0.0101 J	0.0017 UJ	0.0023 UJ	0.0028 UJ	0.0022 UJ	0.0018 UJ	0.0028 UJ	0.0033 UJ	0.0022 UJ	0.0035 UJ	0.0035 UJ	0.002 UJ	0.002 UJ
SED-D-2	0.0-0.5	5-Oct-06	0.0048 UJ	0.179 J	0.12 UJ	0.0016 UJ	0.0254 J	0.0236 J	0.0015 UJ	0.002 UJ	0.0024 UJ	0.0019 UJ	0.0015 UJ	0.0268 J	0.0028 UJ	0.0019 UJ	0.0029 UJ	0.003 UJ	0.0017 UJ	0.0017 UJ
SED-D-3	0.0-0.5	5-Oct-06	0.007 UJ	0.166 J	1.1 UJ	0.0024 UJ	0.014 UJ	0.0095 J	0.0022 UJ	0.0029 UJ	0.0034 UJ	0.0027 UJ	0.0022 UJ	0.0034 UJ	0.0041 UJ	0.0027 UJ	0.0043 UJ	0.0044 UJ	0.0024 UJ	0.0024 UJ
SED-E-1	0.0-0.5	3-Oct-06	0.0077 UJ	0.016 UJ	0.18 UJ	0.0026 UJ	0.015 UJ	0.0088 J	0.0024 UJ	0.0032 UJ	0.0038 UJ	0.003 UJ	0.0025 UJ	0.0038 UJ	0.0045 UJ	0.003 UJ	0.0047 UJ	0.0048 UJ	0.0027 UJ	0.0027 UJ
SED-E-2	0.0-0.5	5-Oct-06	0.0036 UJ	0.0953 J	0.093 UJ	0.0012 UJ	0.007 UJ	0.0042 J	0.0011 UJ	0.0015 UJ	0.0018 UJ	0.0014 UJ	0.0012 UJ	0.0063 J	0.0021 UJ	0.0014 UJ	0.0022 UJ	0.0022 UJ	0.0013 UJ	0.0013 UJ
SED-E-3	0.0-0.5	3-Oct-06	0.0071 UJ	0.102 J	0.19 UJ	0.0024 UJ	0.014 UJ	0.0055 J	0.0022 UJ	0.0029 UJ	0.0034 UJ	0.0027 UJ	0.0023 UJ	0.0035 UJ	0.0041 UJ	0.0027 UJ	0.0043 UJ	0.0044 UJ	0.0025 UJ	0.0025 UJ

Notes:

mg/kg = Milligrams per kilogram
ft bgs = Feet below ground surface
U = Non-detect value; MDL presented
J = Estimated value
DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detects and a relative difference (RPD) < 25%, average concentration
- 2 detects and a relative difference (RPD) > 25%, maximum concentration
- 1 detect and 1 non-detect, detected concentration
- 2 non-detects, average MDL

ATTACHMENT A
Supplemental Data Tables

Table A-4.1
Summary Statistics for Non-Detect Constituents
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Chemical Class	CAS No.	Constituent	Minimum MDL[1]	Maximum MDL[1]	Units	Number of Samples	Screening Concentration [2]	Screening Value (Basis) [3]	
Metal	7440-28-0	Thallium	0.35	28	mg/kg	248	14	NSC	
PEST	309-00-2	Aldrin	0.0003	0.2	mg/kg	248	0.1	0.029	c
PEST	5103-71-9	Alpha-Chlordane	0.00037	0.39	mg/kg	248	0.195	1.6	c
PEST	959-98-8	Endosulfan I	0.00037	0.2	mg/kg	248	0.1	37	n
PEST	72-20-8	Endrin	0.00034	0.39	mg/kg	248	0.195	1.8	n
PEST	7421-93-4	Endrin Aldehyde	0.00032	0.39	mg/kg	248	0.195	1.8	n
PEST	76-44-8	Heptachlor	0.00036	0.2	mg/kg	248	0.1	0.11	c
PEST	8001-35-2	Toxaphene	0.0065	20	mg/kg	248	10	0.44	c
SVOC	88-06-2	2,4,6-Trichlorophenol	0.029	5.2	mg/kg	235	2.6	44	c
SVOC	120-83-2	2,4-Dichlorophenol	0.057	5.2	mg/kg	235	2.6	18	n
SVOC	105-67-9	2,4-Dimethylphenol	0.087	5.2	mg/kg	235	2.6	120	n
SVOC	51-28-5	2,4-Dinitrophenol	0.052	21	mg/kg	235	10.5	12	n
SVOC	606-20-2	2,6-Dinitrotoluene	0.039	2.1	mg/kg	235	1.05	6.1	n
SVOC	95-57-8	2-Chlorophenol	0.029	5.2	mg/kg	235	2.6	39	n
SVOC	95-48-7	2-Methylphenol	0.033	5.2	mg/kg	235	2.6	310	n
SVOC	88-74-4	2-Nitroaniline	0.022	5.2	mg/kg	235	2.6	61	n
SVOC	88-75-5	2-Nitrophenol	0.042	5.2	mg/kg	235	2.6	NSC	
SVOC	91-94-1	3,3'-Dichlorobenzidine	0.032	5.2	mg/kg	235	2.6	1.1	c
SVOC	99-09-2	3-Nitroaniline	0.026	5.2	mg/kg	235	2.6	NSC	
SVOC	534-52-1	4,6-Dinitro-2-Methylphenol	0.03	21	mg/kg	235	10.5	0.49	n
SVOC	101-55-3	4-Bromophenyl-Phenyl Ether	0.017	2.1	mg/kg	235	1.05	NSC	
SVOC	59-50-7	4-Chloro-3-Methylphenol	0.043	5.2	mg/kg	235	2.6	610	n
SVOC	7005-72-3	4-Chlorophenyl-Phenyl Ether	0.016	2.1	mg/kg	235	1.05	NSC	
SVOC	100-02-7	4-Nitrophenol	0.046	21	mg/kg	235	10.5	NSC	
SVOC	1912-24-9	Atrazine	0.029	0.35	mg/kg	45	0.175	2.1	c
SVOC	111-91-1	Bis(2-Chloroethoxy) Methane	0.022	2.1	mg/kg	235	1.05	18	n
SVOC	111-44-4	Bis(2-Chloroethyl) Ether	0.017	2.1	mg/kg	235	1.05	0.21	c
SVOC	108-60-1	Bis(2-Chloroisopropyl) Ether	0.026	2.1	mg/kg	235	1.05	4.6	c
SVOC	105-60-2	Caprolactam	0.033	0.39	mg/kg	45	0.195	3100	n
SVOC	MEPH1314	Cresols, M & P	0.049	5.2	mg/kg	235	2.6	NSC	
SVOC	77-47-4	Hexachlorocyclopentadiene	0.024	21	mg/kg	235	10.5	37	n
SVOC	78-59-1	Isophorone	0.017	2.1	mg/kg	235	1.05	510	c
SVOC	621-64-7	N-Nitroso-Di-N-Propylamine	0.022	2.1	mg/kg	235	1.05	0.069	c
SVOC	108-95-2	Phenol	0.042	5.2	mg/kg	235	2.6	1800	n
VOC	79-34-5	1,1,2,2-Tetrachloroethane	0.0034	0.64	mg/kg	235	0.32	0.56	c
VOC	79-00-5	1,1,2-Trichloroethane	0.0034	0.64	mg/kg	235	0.32	1.1	c
VOC	106-93-4	1,2-Dibromoethane	0.024	0.088	mg/kg	45	0.044	0.034	c
VOC	107-06-2	1,2-Dichloroethane	0.0034	0.64	mg/kg	235	0.32	0.43	c
VOC	78-87-5	1,2-Dichloropropane	0.0034	0.64	mg/kg	235	0.32	0.89	c
VOC	75-27-4	Bromodichloromethane	0.0034	0.64	mg/kg	235	0.32	0.27	c
VOC	75-25-2	Bromoform	0.0034	0.64	mg/kg	235	0.32	61	c
VOC	74-83-9	Bromomethane	0.0034	0.64	mg/kg	235	0.32	0.73	n
VOC	124-48-1	Chlorodibromomethane	0.0034	0.64	mg/kg	235	0.32	0.68	c
VOC	75-00-3	Chloroethane	0.0034	0.64	mg/kg	235	0.32	1500	n
VOC	10061-01-5	Cis-1,3-Dichloropropene	0.0034	0.64	mg/kg	235	0.32	NSC	
VOC	110-82-7	Cyclohexane	0.055	0.2	mg/kg	45	0.1	700	n
VOC	96-12-8	DBCP	0.093	0.33	mg/kg	45	0.165	0.0054	c
VOC	75-71-8	Dichlorodifluoromethane	0.034	0.12	mg/kg	45	0.06	18	n
VOC	10061-02-6	Trans-1,3-Dichloropropene	0.0034	0.64	mg/kg	235	0.32	NSC	
VOC	75-69-4	Trichlorofluoromethane	0.032	0.11	mg/kg	45	0.055	79	n
VOC	76-13-1	Trichlorotrifluoroethane	0.037	0.13	mg/kg	45	0.065	4300	n

Notes:
(1) Minimum/maximum method detection limit for non-detect constituents.
(2) Screening concentration is 1/2 the maximum MDL.
(3) USEPA Regional Screening Levels (RSLs) for residential soil (updated November 2010) based on the following endpoints:
c = cancer endpoint and a target cancer risk of 1×10^{-6}
nc = non-cancer endpoint and a target hazard quotient of 0.1

Definitions:
MDL = Method detection limit
mg/kg = Milligrams per kilogram
PEST = Pesticide
SVOC = Semivolatile organic compound
VOC = Volatile organic compound
ft bgs = Feet below ground surface

ATTACHMENT A
Supplemental Data Tables

Table A-4.2
Summary Statistics for Non-Detect Constituents
Subsurface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Chemical Class	CAS No.	Constituent	Minimum MDL[1]	Maximum MDL[1]	Units	Number of Samples	Screening Concentration [2]	Screening Value (Basis) [3]	
PEST	309-00-2	Aldrin	0.00032	0.016	mg/kg	88	0.008	0.029	c
PEST	319-84-6	Alpha-BHC	0.00027	0.016	mg/kg	88	0.008	0.077	c
PEST	319-86-8	Bhc, Delta Isomer	0.00054	0.016	mg/kg	88	0.008	NSC	
PEST	959-98-8	Endosulfan I	0.00039	0.016	mg/kg	88	0.008	37	n
PEST	1031-07-8	Endosulfan Sulfate	0.0004	0.016	mg/kg	88	0.008	37	n
PEST	7421-93-4	Endrin Aldehyde	0.00035	0.016	mg/kg	88	0.008	1.8	n
PEST	53494-70-5	Endrin Ketone	0.0004	0.041	mg/kg	88	0.0205	1.8	n
PEST	76-44-8	Heptachlor	0.00038	0.016	mg/kg	88	0.008	0.11	c
PEST	1024-57-3	Heptachlor Epoxide	0.0004	0.016	mg/kg	88	0.008	0.053	c
PEST	72-43-5	Methoxychlor	0.00049	0.041	mg/kg	88	0.0205	310	n
PEST	8001-35-2	Toxaphene	0.007	0.21	mg/kg	88	0.105	0.44	c
SVOC	88-06-2	2,4,6-Trichlorophenol	0.0195	22	mg/kg	83	11	44	c
SVOC	51-28-5	2,4-Dinitrophenol	0.035	89	mg/kg	83	44.5	12	n
SVOC	95-57-8	2-Chlorophenol	0.02	22	mg/kg	83	11	39	n
SVOC	88-74-4	2-Nitroaniline	0.0145	22	mg/kg	83	11	61	n
SVOC	88-75-5	2-Nitrophenol	0.0285	22	mg/kg	83	11	NSC	
SVOC	91-94-1	3,3'-Dichlorobenzidine	0.022	22	mg/kg	83	11	1.1	c
SVOC	99-09-2	3-Nitroaniline	0.018	22	mg/kg	83	11	NSC	
SVOC	534-52-1	4,6-Dinitro-2-Methylphenol	0.02	89	mg/kg	83	44.5	0.49	n
SVOC	101-55-3	4-Bromophenyl-Phenyl Ether	0.012	8.9	mg/kg	83	4.45	NSC	
SVOC	59-50-7	4-Chloro-3-Methylphenol	0.0295	22	mg/kg	83	11	610	n
SVOC	7005-72-3	4-Chlorophenyl-Phenyl Ether	0.011	8.9	mg/kg	83	4.45	NSC	
SVOC	100-01-6	4-Nitroaniline	0.016	22	mg/kg	83	11	24	c
SVOC	100-02-7	4-Nitrophenol	0.0315	89	mg/kg	83	44.5	NSC	
SVOC	98-86-2	Acetophenone	0.0145	0.083	mg/kg	14	0.0415	780	n
SVOC	1912-24-9	Atrazine	0.02	0.11	mg/kg	14	0.055	2.1	c
SVOC	111-91-1	Bis(2-Chloroethoxy) Methane	0.015	8.9	mg/kg	83	4.45	18	n
SVOC	111-44-4	Bis(2-Chloroethyl) Ether	0.0115	8.9	mg/kg	83	4.45	0.21	c
SVOC	108-60-1	Bis(2-Chloroisopropyl) Ether	0.0175	8.9	mg/kg	83	4.45	4.6	c
SVOC	105-60-2	Caprolactam	0.0225	0.13	mg/kg	14	0.065	3100	n
SVOC	84-66-2	Diethyl Phthalate	0.01	8.9	mg/kg	83	4.45	4900	n
SVOC	77-47-4	Hexachlorocyclopentadiene	0.0165	89	mg/kg	82	44.5	37	n
SVOC	78-59-1	Isophorone	0.0115	8.9	mg/kg	83	4.45	510	c
SVOC	98-95-3	Nitrobenzene	0.016	8.9	mg/kg	83	4.45	4.8	c
SVOC	621-64-7	N-Nitroso-Di-N-Propylamine	0.015	8.9	mg/kg	83	4.45	0.069	c
SVOC	86-30-6	N-Nitrosodiphenylamine	0.0095	22	mg/kg	83	11	99	c
SVOC	87-86-5	Pentachlorophenol	0.026	89	mg/kg	83	44.5	0.89	c
VOC	79-34-5	1,1,2,2-Tetrachloroethane	0.004	12	mg/kg	83	6	0.56	c
VOC	79-00-5	1,1,2-Trichloroethane	0.004	12	mg/kg	83	6	1.1	c
VOC	75-35-4	1,1-Dichloroethene	0.004	12	mg/kg	83	6	24	n
VOC	106-93-4	1,2-Dibromoethane	0.031	0.066	mg/kg	14	0.033	0.034	c
VOC	591-78-6	2-Hexanone	0.004	12	mg/kg	83	6	21	n
VOC	108-10-1	4-Methyl-2-Pentanone (MIBK)	0.004	12	mg/kg	83	6	530	n
VOC	79-20-9	Acetic Acid, Methyl Ester	0.076	0.16	mg/kg	14	0.08	7800	n
VOC	100-52-7	Benzaldehyde	0.039	0.14	mg/kg	12	0.07	780	n
VOC	75-27-4	Bromodichloromethane	0.004	12	mg/kg	83	6	0.27	c
VOC	75-25-2	Bromoform	0.004	12	mg/kg	83	6	61	c
VOC	74-83-9	Bromomethane	0.004	12	mg/kg	83	6	0.73	n
VOC	56-23-5	Carbon Tetrachloride	0.004	12	mg/kg	83	6	0.61	c
VOC	124-48-1	Chlorodibromomethane	0.004	12	mg/kg	83	6	0.68	c
VOC	75-00-3	Chloroethane	0.004	12	mg/kg	83	6	1500	n
VOC	10061-01-5	Cis-1,3-Dichloropropene	0.004	12	mg/kg	83	6	NSC	
VOC	110-82-7	Cyclohexane	0.069	0.15	mg/kg	14	0.075	700	n
VOC	96-12-8	DBCP	0.12	0.25	mg/kg	14	0.125	0.0054	c
VOC	75-71-8	Dichlorodifluoromethane	0.043	0.092	mg/kg	14	0.046	18	n
VOC	98-82-8	Isopropylbenzene	0.025	0.054	mg/kg	14	0.027	210	n
VOC	1634-04-4	Tert-Butyl Methyl Ether	0.03	0.065	mg/kg	14	0.0325	43	c
VOC	156-60-5	Trans-1,2-Dichloroethene	0.004	12	mg/kg	83	6	15	n
VOC	10061-02-6	Trans-1,3-Dichloropropene	0.004	12	mg/kg	83	6	NSC	
VOC	75-69-4	Trichlorofluoromethane	0.039	0.085	mg/kg	14	0.0425	79	n
VOC	76-13-1	Trichlorotrifluoroethane	0.046	0.099	mg/kg	14	0.0495	4300	n

Notes:
(1) Minimum/maximum method detection limit for non-detect constituents.
(2) Screening concentration is 1/2 the maximum MDL.
(3) USEPA Regional Screening Levels (RSLs) for residential soil (updated November 2010) based on the following endpoints:
c = cancer endpoint and a target cancer risk of 1×10^{-6}
nc = non-cancer endpoint and a target hazard quotient of 0.1

Definitions:
MDL = Method detection limit
mg/kg = Milligrams per kilogram
PEST = Pesticide
SVOC = Semivolatile organic compound
VOC = Volatile organic compound
ft bgs = Feet below ground surface

ATTACHMENT A
Supplemental Data Tables

Table A-4.3
Summary Statistics for Non-Detect Constituents
Overburden Groundwater
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Chemical Class	CAS No.	Constituent		Minimum MDL[1]	Maximum MDL[1]	Units	Number of Samples	Screening Concentration [2]	Screening Value (Basis) [3]	
Dissolved (Filtered)										
Metals	7440-36-0	Antimony	D	6	60	µg/L	20	30	1.5	n
Metals	7440-41-7	Beryllium	D	1	10	µg/L	20	5.0	7.3	n
Metals	18540-29-9	Chromium, Hexavalent	D	10	10	µg/L	15	5.0	0.043	c
Metals	7440-50-8	Copper	D	25	250	µg/L	20	125	150	n
Metals	7782-49-2	Selenium	D	10	100	µg/L	20	50	18	n
Metals	7440-22-4	Silver	D	10	100	µg/L	20	50	18	n
Metals	7440-28-0	Thallium	D	10	100	µg/L	20	50	2	MCL
Total (Unfiltered)										
Metals	7440-41-7	Beryllium	T	1	10	µg/L	20	5.0	7.3	n
Metals	18540-29-9	Chromium, Hexavalent	T	10	10	µg/L	15	5.0	0.043	c
Metals	7440-22-4	Silver	T	10	100	µg/L	20	50	18	n
Metals	7440-28-0	Thallium	T	10	100	µg/L	20	50	2.0	MCL
PCBs	Total PCBs	Total PCBs	T	n/a	n/a	µg/L	19	n/a	NSC	
PEST	309-00-2	Aldrin	T	0.0033	0.0042	µg/L	19	0.0021	0.0040	c
PEST	319-84-6	Alpha-BHC	T	0.0026	0.0033	µg/L	19	0.00165	0.011	c
PEST	5103-71-9	Alpha-Chlordane	T	0.0044	0.0054	µg/L	19	0.0027	NSC	
PEST	319-85-7	Beta-BHC	T	0.0062	0.0077	µg/L	19	0.00385	0.037	c
PEST	319-86-8	Bhc, Delta Isomer	T	0.0031	0.0039	µg/L	19	0.00195	NSC	
PEST	58-89-9	Bhc, Gamma Isomer	T	0.0017	0.0022	µg/L	19	0.0011	0.061	c
PEST	60-57-1	Dieldrin	T	0.0017	0.0021	µg/L	19	0.00105	0.0042	c
PEST	959-98-8	Endosulfan I	T	0.0021	0.0026	µg/L	19	0.0013	NSC	
PEST	33213-65-9	Endosulfan II	T	0.0032	0.0041	µg/L	19	0.00205	NSC	
PEST	1031-07-8	Endosulfan Sulfate	T	0.0046	0.0058	µg/L	19	0.0029	NSC	
PEST	72-20-8	Endrin	T	0.003	0.0038	µg/L	19	0.0019	1.1	n
PEST	7421-93-4	Endrin Aldehyde	T	0.0064	0.0081	µg/L	19	0.00405	NSC	
PEST	53494-70-5	Endrin Ketone	T	0.0035	0.0044	µg/L	19	0.0022	NSC	
PEST	5103-74-2	Gamma-Chlordane	T	0.0017	0.0022	µg/L	19	0.0011	NSC	
PEST	76-44-8	Heptachlor	T	0.0026	0.0032	µg/L	18	0.0016	0.015	c
PEST	1024-57-3	Heptachlor Epoxide	T	0.0015	0.0018	µg/L	18	0.0009	0.0074	c
PEST	72-43-5	Methoxychlor	T	0.0068	0.0085	µg/L	19	0.00425	18	n
PEST	72-55-9	P,P'-DDE	T	0.0017	0.0021	µg/L	19	0.00105	0.20	c
PEST	50-29-3	P,P'-DDT	T	0.0049	0.0062	µg/L	19	0.0031	0.20	c
PEST	8001-35-2	Toxaphene	T	0.094	0.12	µg/L	19	0.06	0.061	c
SVOCs	51-28-5	2,4-Dinitrophenol	T	0.89	1.1	µg/L	19	0.55	7.3	n
SVOCs	121-14-2	2,4-Dinitrotoluene	T	0.86	1.1	µg/L	19	0.55	0.22	c
SVOCs	606-20-2	2,6-Dinitrotoluene	T	0.56	0.7	µg/L	19	0.35	3.7	n
SVOCs	88-74-4	2-Nitroaniline	T	0.66	0.83	µg/L	19	0.415	37	n
SVOCs	88-75-5	2-Nitrophenol	T	1.8	2.3	µg/L	19	1.15	NSC	
SVOCs	91-94-1	3,3'-Dichlorobenzidine	T	1.2	1.5	µg/L	19	0.75	0.15	c
SVOCs	99-09-2	3-Nitroaniline	T	1.3	1.6	µg/L	19	0.8	NSC	
SVOCs	534-52-1	4,6-Dinitro-2-Methylphenol	T	0.72	0.9	µg/L	19	0.45	0.29	n
SVOCs	101-55-3	4-Bromophenyl-Phenyl Ether	T	0.3	0.37	µg/L	19	0.185	NSC	
SVOCs	59-50-7	4-Chloro-3-Methylphenol	T	1.2	1.5	µg/L	19	0.75	370	n
SVOCs	7005-72-3	4-Chlorophenyl-Phenyl Ether	T	0.43	0.54	µg/L	19	0.27	NSC	
SVOCs	100-01-6	4-Nitroaniline	T	0.72	0.9	µg/L	19	0.45	3.4	c
SVOCs	100-02-7	4-Nitrophenol	T	0.84	1.1	µg/L	19	0.55	NSC	
SVOCs	98-86-2	Acetophenone	T	0.37	0.47	µg/L	19	0.235	370	n
SVOCs	1912-24-9	Atrazine	T	0.16	0.2	µg/L	19	0.1	0.29	c
SVOCs	50-32-8	Benzo (a) Pyrene	T	0.017	0.021	µg/L	19	0.0105	0.0029	c
SVOCs	205-99-2	Benzo (b) fluoranthene	T	0.036	0.045	µg/L	19	0.0225	0.029	c
SVOCs	191-24-2	Benzo (g,H,i) Perylene	T	0.018	0.022	µg/L	19	0.011	NSC	
SVOCs	207-08-9	Benzo (k) fluoranthene	T	0.016	0.02	µg/L	19	0.01	0.29	c
SVOCs	111-91-1	Bis(2-Chloroethoxy) Methane	T	0.65	0.82	µg/L	19	0.41	11	n
SVOCs	111-44-4	Bis(2-Chloroethyl) Ether	T	0.53	0.66	µg/L	19	0.33	0.012	c
SVOCs	108-60-1	Bis(2-Chloroisopropyl) Ether	T	0.74	0.92	µg/L	19	0.46	0.32	c
SVOCs	85-68-7	Butyl Benzyl Phthalate	T	0.59	0.74	µg/L	19	0.37	35	c
SVOCs	105-60-2	Caprolactam	T	0.32	0.39	µg/L	19	0.195	1800	n
SVOCs	MEPH1314	Cresols, M & P	T	1.3	1.6	µg/L	19	0.8	NSC	
SVOCs	53-70-3	Dibenz (a,H) Anthracene	T	0.016	0.021	µg/L	19	0.0105	0.0029	c
SVOCs	84-66-2	Diethyl Phthalate	T	0.39	0.49	µg/L	19	0.245	2900	n
SVOCs	131-11-3	Dimethyl Phthalate	T	0.33	0.41	µg/L	19	0.205	NSC	
SVOCs	84-74-2	Di-N-Butyl Phthalate	T	0.59	0.74	µg/L	19	0.37	370	n
SVOCs	117-84-0	Di-N-Octyl Phthalate	T	0.57	0.71	µg/L	19	0.355	NSC	
SVOCs	87-68-3	Hexachlorobutadiene	T	0.18	0.22	µg/L	19	0.11	0.86	c
SVOCs	77-47-4	Hexachlorocyclopentadiene	T	0.41	0.51	µg/L	19	0.255	22	n
SVOCs	67-72-1	Hexachloroethane	T	0.28	0.35	µg/L	19	0.175	4.8	c
SVOCs	193-39-5	Indeno (1,2,3-C,d) Pyrene	T	0.011	0.014	µg/L	19	0.007	0.029	c
SVOCs	78-59-1	Isophorone	T	0.59	0.74	µg/L	19	0.37	71	c
SVOCs	621-64-7	N-Nitroso-Di-N-Propylamine	T	0.47	0.59	µg/L	19	0.295	0.010	c
SVOCs	86-30-6	N-Nitrosodiphenylamine	T	0.52	0.65	µg/L	19	0.325	14	c
VOCs	71-55-6	1,1,1-Trichloroethane	T	0.28	6.9	µg/L	19	3.45	910	n

ATTACHMENT A
Supplemental Data Tables

Table A-4.3
Summary Statistics for Non-Detect Constituents
Overburden Groundwater
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Chemical Class	CAS No.	Constituent		Minimum MDL[1]	Maximum MDL[1]	Units	Number of Samples	Screening Concentration [2]	Screening Value (Basis) [3]	
VOCs	79-34-5	1,1,2,2-Tetrachloroethane	T	0.28	6.9	µg/L	19	3.45	0.067	c
VOCs	79-00-5	1,1,2-Trichloroethane	T	0.32	7.9	µg/L	19	3.95	0.24	c
VOCs	75-35-4	1,1-Dichloroethene	T	0.33	8.1	µg/L	19	4.05	34	n
VOCs	106-93-4	1,2-Dibromoethane	T	0.52	13	µg/L	19	6.5	0.0065	c
VOCs	78-87-5	1,2-Dichloropropane	T	0.2	5	µg/L	19	2.5	0.39	c
VOCs	78-93-3	2-Butanone (MEK)	T	2.6	65	µg/L	19	32.5	710	n
VOCs	591-78-6	2-Hexanone	T	1.3	32	µg/L	19	16	4.70	n
VOCs	79-20-9	Acetic Acid, Methyl Ester	T	2.1	52	µg/L	19	26	3700	n
VOCs	100-52-7	Benzaldehyde	T	0.27	0.33	µg/L	18	0.165	370	n
VOCs	75-27-4	Bromodichloromethane	T	0.17	4.4	µg/L	19	2.2	0.12	c
VOCs	75-25-2	Bromoform	T	0.54	13	µg/L	19	6.5	8.5	c
VOCs	74-83-9	Bromomethane	T	0.22	5.6	µg/L	19	2.8	0.87	n
VOCs	56-23-5	Carbon Tetrachloride	T	0.29	7.3	µg/L	19	3.65	0.44	c
VOCs	124-48-1	Chlorodibromomethane	T	0.19	4.7	µg/L	19	2.35	0.15	c
VOCs	75-00-3	Chloroethane	T	0.56	14	µg/L	19	7	2100	n
VOCs	74-87-3	Chloromethane	T	0.35	8.7	µg/L	19	4.35	19	n
VOCs	10061-01-5	Cis-1,3-Dichloropropene	T	0.15	3.7	µg/L	19	1.85	NSC	
VOCs	110-82-7	Cyclohexane	T	0.5	12	µg/L	19	6	1300	n
VOCs	96-12-8	DBCP	T	1.1	27	µg/L	19	13.5	0.00032	c
VOCs	75-71-8	Dichlorodifluoromethane	T	0.75	19	µg/L	19	9.5	39	n
VOCs	10061-02-6	Trans-1,3-Dichloropropene	T	0.2	5	µg/L	19	2.5	NSC	
VOCs	75-69-4	Trichlorofluoromethane	T	0.25	6.3	µg/L	19	3.15	130	n
VOCs	76-13-1	Trichlorotrifluoroethane	T	0.69	17	µg/L	19	8.5	5900	n

Notes:
(1) Minimum/maximum method detection limit (MDL) for non-detect constituents.
(2) Screening concentration is 1/2 the maximum MDL.
(3) Screening values are EPA Regional Screening Levels (RSLs) for tapwater (updated November 2010) or, if an RSL was not available, the Federal Maximum Contaminant Level (MCL). The groundwater screening values are based on the following:
c = cancer endpoint and a target cancer risk of 1×10^{-6}
nc = non-cancer endpoint and a target hazard quotient of 0.1
MCL = Federal MCL

Definitions:
MDL = Method detection limit
ug/L = Micrograms per liter
SVOC = Semivolatile organic compound
VOC = Volatile organic compound
PEST = Pesticide

ATTACHMENT A
Supplemental Data Tables

Table A-4.4
Summary Statistics for Non-Detect Constituents
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Chemical Class	CAS No.	Constituent	Minimum MDL[1]	Maximum MDL[1]	Units	Number of Samples	Screening Concentration [2]	Screening Value (Basis) [3]	
PEST	309-00-2	Aldrin	0.00038	0.025	mg/kg	70	0.0125	0.029	c
PEST	5103-71-9	Alpha-Chlordane	0.00046	0.025	mg/kg	70	0.0125	1.6	c
PEST	319-85-7	Beta-BHC	0.00037	0.025	mg/kg	70	0.0125	0.27	c
PEST	319-86-8	Bhc, Delta Isomer	0.00063	0.025	mg/kg	70	0.0125	NSC	
PEST	58-89-9	Bhc, Gamma Isomer	0.00035	0.025	mg/kg	70	0.0125	0.52	c
PEST	959-98-8	Endosulfan I	0.00046	0.025	mg/kg	70	0.0125	37	n
PEST	33213-65-9	Endosulfan II	0.00045	0.025	mg/kg	70	0.0125	37	n
PEST	1031-07-8	Endosulfan Sulfate	0.00047	0.025	mg/kg	70	0.0125	37	n
PEST	72-20-8	Endrin	0.00043	0.025	mg/kg	70	0.0125	1.8	n
PEST	7421-93-4	Endrin Aldehyde	0.0004	0.025	mg/kg	70	0.0125	1.8	n
PEST	53494-70-5	Endrin Ketone	0.00047	0.064	mg/kg	70	0.032	1.8	n
PEST	5103-74-2	Gamma-Chlordane	0.00046	0.025	mg/kg	70	0.0125	1.6	c
PEST	76-44-8	Heptachlor	0.00045	0.025	mg/kg	70	0.0125	0.11	c
PEST	1024-57-3	Heptachlor Epoxide	0.00047	0.025	mg/kg	70	0.0125	0.053	c
PEST	8001-35-2	Toxaphene	0.0082	0.32	mg/kg	70	0.16	0.44	c
SVOC	92-52-4	1,1'-Biphenyl	0.021	0.48	mg/kg	38	0.24	390	n
SVOC	95-95-4	2,4,5-Trichlorophenol	0.065	1.5	mg/kg	70	0.75	610	n
SVOC	88-06-2	2,4,6-Trichlorophenol	0.036	0.84	mg/kg	70	0.42	44	c
SVOC	120-83-2	2,4-Dichlorophenol	0.072	1.7	mg/kg	70	0.85	18	n
SVOC	105-67-9	2,4-Dimethylphenol	0.11	2.6	mg/kg	70	1.3	120	n
SVOC	51-28-5	2,4-Dinitrophenol	0.066	2.4	mg/kg	70	1.2	12	n
SVOC	121-14-2	2,4-Dinitrotoluene	0.05	1.2	mg/kg	70	0.6	1.6	c
SVOC	606-20-2	2,6-Dinitrotoluene	0.049	1.1	mg/kg	70	0.55	6.1	n
SVOC	95-57-8	2-Chlorophenol	0.037	0.86	mg/kg	70	0.43	39	n
SVOC	95-48-7	2-Methylphenol	0.042	0.98	mg/kg	70	0.49	310	n
SVOC	88-74-4	2-Nitroaniline	0.027	0.63	mg/kg	70	0.315	61	n
SVOC	88-75-5	2-Nitrophenol	0.054	1.2	mg/kg	70	0.6	NSC	
SVOC	91-94-1	3,3'-Dichlorobenzidine	0.041	0.96	mg/kg	70	0.48	1.1	c
SVOC	99-09-2	3-Nitroaniline	0.034	0.78	mg/kg	70	0.39	NSC	
SVOC	534-52-1	4,6-Dinitro-2-Methylphenol	0.038	2.4	mg/kg	70	1.2	0.49	n
SVOC	101-55-3	4-Bromophenyl-Phenyl Ether	0.022	0.51	mg/kg	70	0.255	NSC	
SVOC	59-50-7	4-Chloro-3-Methylphenol	0.055	1.3	mg/kg	70	0.65	610	n
SVOC	106-47-8	4-Chloroaniline	0.027	0.62	mg/kg	70	0.31	2.4	c
SVOC	7005-72-3	4-Chlorophenyl-Phenyl Ether	0.02	0.47	mg/kg	70	0.235	NSC	
SVOC	100-01-6	4-Nitroaniline	0.03	0.69	mg/kg	70	0.345	24	c
SVOC	100-02-7	4-Nitrophenol	0.059	2.4	mg/kg	70	1.2	NSC	
SVOC	98-86-2	Acetophenone	0.027	0.63	mg/kg	38	0.315	780	n
SVOC	1912-24-9	Atrazine	0.037	0.87	mg/kg	38	0.435	2.1	c
SVOC	111-91-1	Bis(2-Chloroethoxy) Methane	0.028	0.65	mg/kg	70	0.325	18	n
SVOC	111-44-4	Bis(2-Chloroethyl) Ether	0.022	0.5	mg/kg	70	0.25	0.21	c
SVOC	108-60-1	Bis(2-Chloroisopropyl) Ether	0.032	0.75	mg/kg	70	0.375	4.6	c
SVOC	105-60-2	Caprolactam	0.042	0.97	mg/kg	38	0.485	3100	n
SVOC	MEPH1314	Cresols, M & P	0.062	1.4	mg/kg	70	0.7	NSC	
SVOC	77-47-4	Hexachlorocyclopentadiene	0.031	2.4	mg/kg	62	1.2	37	n
SVOC	78-59-1	Isophorone	0.021	0.5	mg/kg	70	0.25	510	c
SVOC	98-95-3	Nitrobenzene	0.03	0.7	mg/kg	70	0.35	4.8	c
SVOC	621-64-7	N-Nitroso-Di-N-Propylamine	0.028	0.64	mg/kg	70	0.32	0.069	c
SVOC	86-30-6	N-Nitrosodiphenylamine	0.018	0.59	mg/kg	70	0.295	99	c
SVOC	87-86-5	Pentachlorophenol	0.049	2.4	mg/kg	70	1.2	0.89	c
SVOC	108-95-2	Phenol	0.054	1.2	mg/kg	70	0.6	1800	n
VOC	71-55-6	1,1,1-Trichloroethane	0.00079	0.47	mg/kg	70	0.235	870	n
VOC	79-34-5	1,1,2,2-Tetrachloroethane	0.00076	0.45	mg/kg	70	0.225	0.56	c
VOC	79-00-5	1,1,2-Trichloroethane	0.00071	0.42	mg/kg	70	0.21	1.1	c
VOC	75-34-3	1,1-Dichloroethane	0.00064	0.38	mg/kg	70	0.19	3.3	c
VOC	106-93-4	1,2-Dibromoethane	0.00075	0.44	mg/kg	38	0.22	0.034	c
VOC	78-87-5	1,2-Dichloropropane	0.00074	0.44	mg/kg	70	0.22	0.89	c
VOC	591-78-6	2-Hexanone	0.0018	1.1	mg/kg	70	0.55	21	n
VOC	108-10-1	4-Methyl-2-Pentanone (MIBK)	0.0026	1.6	mg/kg	70	0.8	530	n
VOC	75-27-4	Bromodichloromethane	0.00061	0.36	mg/kg	70	0.18	0.27	c
VOC	75-25-2	Bromoform	0.00058	0.34	mg/kg	70	0.17	61	c
VOC	74-83-9	Bromomethane	0.00049	0.29	mg/kg	70	0.145	0.73	n
VOC	56-23-5	Carbon Tetrachloride	0.0013	0.75	mg/kg	70	0.375	0.61	c
VOC	124-48-1	Chlorodibromomethane	0.00073	0.43	mg/kg	70	0.215	0.68	c
VOC	75-00-3	Chloroethane	0.0023	1.4	mg/kg	70	0.7	1500	n
VOC	74-87-3	Chloromethane	0.00061	0.36	mg/kg	70	0.18	12	n
VOC	156-59-2	Cis-1,2-Dichloroethene	0.00089	0.53	mg/kg	70	0.265	16	n
VOC	10061-01-5	Cis-1,3-Dichloropropene	0.00055	0.33	mg/kg	70	0.165	NSC	
VOC	110-82-7	Cyclohexane	0.0017	1	mg/kg	38	0.5	700	n
VOC	96-12-8	DBCP	0.0029	1.7	mg/kg	38	0.85	0.0054	c
VOC	75-71-8	Dichlorodifluoromethane	0.0011	0.63	mg/kg	38	0.315	18	n
VOC	98-82-8	Isopropylbenzene	0.00062	0.37	mg/kg	38	0.185	210	n
VOC	108-87-2	Methylcyclohexane	0.00086	0.51	mg/kg	38	0.255	700	n

ATTACHMENT A
Supplemental Data Tables

Table A-4.4
Summary Statistics for Non-Detect Constituents
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Chemical Class	CAS No.	Constituent	Minimum MDL[1]	Maximum MDL[1]	Units	Number of Samples	Screening Concentration [2]	Screening Value (Basis) [3]	
VOC	100-42-5	Styrene	0.00044	0.26	mg/kg	70	0.13	630	n
VOC	1634-04-4	Tert-Butyl Methyl Ether	0.00074	0.44	mg/kg	38	0.22	43	c
VOC	156-60-5	Trans-1,2-Dichloroethene	0.00091	0.54	mg/kg	70	0.27	15	n
VOC	10061-02-6	Trans-1,3-Dichloropropene	0.00052	0.31	mg/kg	70	0.155	NSC	
VOC	79-01-6	Trichloroethene (TCE)	0.00069	0.41	mg/kg	70	0.205	2.8	c
VOC	75-69-4	Trichlorofluoromethane	0.00097	0.57	mg/kg	38	0.285	79	n
VOC	75-01-4	Vinyl Chloride	0.00086	0.51	mg/kg	70	0.255	0.06	c

Notes:
(1) Minimum/maximum method detection limit for non-detect constituents.
(2) Screening concentration is 1/2 the maximum MDL.
(3) USEPA Regional Screening Levels (RSLs) for residential soil (updated November 2010) based on the following endpoints:
c = cancer endpoint and a target cancer risk of 1×10^{-6}
nc = non-cancer endpoint and a target hazard quotient of 0.1

Definitions:
MDL = Method detection limit
mg/kg = Milligrams per kilogram
PEST = Pesticide
SVOC = Semivolatile organic compound
VOC = Volatile organic compound
ft bgs = Feet below ground surface

ATTACHMENT A
Supplemental Data Tables

Table A-5.1
Total and Hexavalent Chromium Results - Soil and Sediment
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Exposure Media	Location	Depth (ft bgs)	Units	Total Chromium	Hexavalent Chromium	= Cr^{+6}/ Total Cr
Surface Soil (0 to 2 ft bgs)	H-B-105E	0 - 0	mg/kg	16.4	1.2 U	4%
	LB-102-0-1	0 - 3	mg/kg	15.6 J	1.4 J	9%
	LB-102-1-3	1 - 3	mg/kg	108 J	1.6 J	1%
	LHP-101-0-1	0 - 1	mg/kg	36.2	1.1 U	2%
	LHP-102-0-1	0 - 1	mg/kg	69.2 J	2.7 J	4%
	LHP-106-0-1	0 - 1	mg/kg	87.2	1.3	1%
	LHP-106-1-3	1 - 3	mg/kg	66.6	1 U	1%
	LHP-108-0-1	0 - 1	mg/kg	14.1 J	7.3 J	52%
	LHP-110-0-1	0 - 1	mg/kg	33.5	1.2 U	2%
	LHP-111-0-1	0 - 1	mg/kg	20.4	1.1 U	3%
	LHP-112-0-1	0 - 1	mg/kg	15.2	1.1 U	4%
	LHP-113-0-1	0 - 1	mg/kg	11	1.1 U	5%
	LHP-114-0-1	0 - 1	mg/kg	20.7	1.1 U	3%
	LHP-115-0-1	0 - 1	mg/kg	4.7	1.1 U	12%
	LHP-116-0-1	0 - 1	mg/kg	14.7	1.1 U	4%
	LHP-117-0-1	0 - 1	mg/kg	21.7	1.2 U	3%
	LHP-118-0-1	0 - 1	mg/kg	18.3	3.3	18%
	LHP-119-0-1	0 - 1	mg/kg	14.4	1.2 U	4%
	LHP-120-0-1	0 - 1	mg/kg	169	1.3 U	0%
	LHP-123-0-1	0 - 1	mg/kg	27.8	1.2 U	2%
	LHP-124-.5-2	0.5 - 2	mg/kg	21.5	0.26 U	1%
	LHP-125-.5-2	0.5 - 2	mg/kg	20.4	2.2	11%
	LHP-127-0-1	0 - 1	mg/kg	77.2 J	3.6 J	5%
	LHP-128-0-1	0 - 1	mg/kg	76.7 J	2.2 J	3%
	LHP-128-0-1 (DUP)	0 - 1	mg/kg	71.8 J	3.8 J	5%
Subsurface Soil (2 to 10 ft bgs)	LHP-124-2-4	2 - 4	mg/kg	19.8	0.26 U	1%
	LHP-126-2-4	2 - 4	mg/kg	81.5	1.6	2%
	LHP-125-4-6	4 - 6	mg/kg	22.7	1.1	5%
	LHP-101-5-8	5 - 8	mg/kg	29.3	1.4 U	2%
	LHP-126-8-10	8 - 10	mg/kg	79.6	1.2 U	1%
	MW-26S-8-10	8 - 10	mg/kg	50.6	1.3 U	1%
South Branch Creek Sediment /Bank Soil (0 to 0.5 ft bgs)	LM-A-2	0 - 0.5	mg/kg	144 J	3 J	2%
	LM-A-4	0 - 0.5	mg/kg	88.5	2.7 U	2%
	LM-B-1	0 - 0.5	mg/kg	130	2.2 U	1%
	LM-B-2	0 - 0.5	mg/kg	90.6	1.8 U	1%
	LM-B-3	0 - 0.5	mg/kg	17.6	1.3 U	4%
	LM-B-4	0 - 0.5	mg/kg	24.3	1.9	8%
	LM-C-1	0 - 0.5	mg/kg	48.7	2.9	6%
	LM-C-2	0 - 0.5	mg/kg	13.3	1.6 U	6%
	LM-C-2 (DUP)	0 - 0.5	mg/kg	28.3	1.9 U	3%
	LM-C-3	0 - 0.5	mg/kg	65.3	2.6	4%
	LM-C-4	0 - 0.5	mg/kg	17.8	2.1 U	6%
	LM-D-1	0 - 0.5	mg/kg	116	3.8 U	2%
	LM-D-2	0 - 0.5	mg/kg	180	6.1 U	2%
	LM-D-3	0 - 0.5	mg/kg	191	7	4%
	LM-D-4	0 - 0.5	mg/kg	234	6.4 U	1%
	LM-E-1	0 - 0.5	mg/kg	116	5.9	5%
	LM-E-2	0 - 0.5	mg/kg	70.7	5 U	4%
	LM-E-3	0 - 0.5	mg/kg	656 J	5.5 J	1%
	SED-7	0 - 0.5	mg/kg	110	4 U	2%
	SED-8	0 - 0.5	mg/kg	111	2.5 U	1%
	SED-9	0 - 0.5	mg/kg	53.8	1.8 U	2%
	SED-A-1-0-0.5	0 - 0.5	mg/kg	207	5.6	3%
	SED-A-2-0-0.5	0 - 0.5	mg/kg	2690	3.2	0%
	SED-A-3-0-0.5	0 - 0.5	mg/kg	156	7.5	5%
	SED-B-1-0-0.5	0 - 0.5	mg/kg	145	2.7 U	1%
	SED-B-2-0-0.5	0 - 0.5	mg/kg	22.1	1.3 U	3%
	SED-B-3-0-0.5	0 - 0.5	mg/kg	48	1.8 U	2%
	SED-C-1-0-0.5	0 - 0.5	mg/kg	94	3.7 U	2%
	SED-C-2-0-0.5	0 - 0.5	mg/kg	77.2	3 U	2%
	SED-C-3-0-0.5	0 - 0.5	mg/kg	75.1	2.9 U	2%
	SED-E-2-0-0.5	0 - 0.5	mg/kg	110 J	5 J	5%

Notes:
"J" indicates an estimated value
"U" indicates a non-detect value; the method detection limit is presented
"DUP" indicates a duplicate sample
ft bgs = feet below ground surface
mg/kg = milligram per kilogram

ATTACHMENT A
Supplemental Data Tables

Table A-5.2
Total and Hexavalent Chromium Results - Overburden Groundwater
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Overburden Monitoring Wells	Date	Units	Total Chromium (1,2)		Hexavalent Chromium (2)	
Dissolved (Filtered)						
MW-18S	12-Feb-07	µg/L	211	J	10	UJ
MW-8S	2-Feb-07	µg/L	100	U	10	UJ
MW-15S	9-Feb-07	µg/L	100	U	10	U
MW-12S	6-Feb-07	µg/L	52		--	
MW-16S	18-Jan-07	µg/L	22		10	UJ
MW-21S	19-Jan-07	µg/L	13		10	UJ
MW-19S	7-Feb-07	µg/L	12		10	UJ
MW-6S	22-Jan-07	µg/L	10	U	10	UJ
MW-7S	1-Feb-07	µg/L	10	U	10	UJ
MW-9S	7-Feb-07	µg/L	10	U	--	
MW-10S	2-Feb-07	µg/L	10	U	--	
MW-11S	30-Jan-07	µg/L	10	U	10	UJ
MW-13S	12-Feb-07	µg/L	10	U	10	UJ
MW-14S	18-Jan-07	µg/L	10	U	10	UJ
MW-17S	10-Jan-07	µg/L	10	U	10	U
MW-20S	16-Jan-07	µg/L	10	U	--	
MW-22S	9-Feb-07	µg/L	10	U	10	U
MW-23S	20-Jan-07	µg/L	10	U	10	U
MW-24S	8-Feb-07	µg/L	10	U	10	U
MW-26S	13-Feb-07	µg/L	10	U	--	
Total (Unfiltered)						
MW-18S	12-Feb-07	µg/L	233	J	10	UJ
MW-8S	2-Feb-07	µg/L	100	U	10	UJ
MW-15S	9-Feb-07	µg/L	100	U	10	U
MW-12S	6-Feb-07	µg/L	52		--	
MW-21S	19-Jan-07	µg/L	26		10	UJ
MW-16S	18-Jan-07	µg/L	23		10	UJ
MW-19S	7-Feb-07	µg/L	18		10	UJ
MW-23S	20-Jan-07	µg/L	11		10	U
MW-6S	22-Jan-07	µg/L	10	U	10	UJ
MW-7S	1-Feb-07	µg/L	10	U	10	UJ
MW-9S	7-Feb-07	µg/L	10	U	--	
MW-10S	2-Feb-07	µg/L	10	U	--	
MW-11S	30-Jan-07	µg/L	10	U	10	UJ
MW-13S	12-Feb-07	µg/L	10	U	10	UJ
MW-14S	18-Jan-07	µg/L	10	U	10	UJ
MW-17S	10-Jan-07	µg/L	10	U	10	U
MW-20S	16-Jan-07	µg/L	10	U	--	
MW-22S	9-Feb-07	µg/L	10	U	10	U
MW-24S	8-Feb-07	µg/L	10	U	10	U
MW-26S	12-Feb-07	µg/L	10	U	--	

Notes:
"J" indicates an estimated value
"U" indicates a non-detect value; the method detection limit is presented
µg/L = microgram per liter

ATTACHMENT A
Supplemental Data Tables

Table A-6.1
Mercury Speciation: Mercury Sequential Extraction Procedure Results
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Within the *Estimated* Extent of Visible Elemental Mercury (1)	Sequential Extraction Fractions *(Extractant)*							Total Mercury (HG_T)
		Fraction 1 *Reagent Water*		Fraction 2 *(HCl & CH_3OOH)*	Fraction 3 *1 N KOC*	Fraction 4 *(12 N HNO_3)*	Fraction 5 *(3:1 HCl + HNO3)*	Total by SEP Summation	
		mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(mg/kg)
Soil Samples (2)									
230-B-101-0-1	Yes	3.26	0.0118	0.376	100	179	1,250	1,533	1,415
DSP-101-0-1	No	0.0105	0.00005	0.005	0.062	0.26	0.005	0.34	0.721
LP-102-0-1	No	**15.3**	**0.098**	12.1	3.1	1,411	525	1,967	1,815
231-102-0-1	Yes	**23.2**	**0.135**	236	60.1	1,017	1,761	3,097	3,066
231-101-01	No	3.16	0.024	0.0208	293	226	35.2	557	495
BSL-101-0-1	No	**27**	**0.231**	0.125	2.09	651	437	1,117	1,484
Sediment Samples (3)									
SED-A-08-2-0.5	No	0.339	0.00064	0.0199	1.7	45.5	3.91	51	39.9
SED-A-08-2-1.0	No	0.062	0.00015	0.0855	0.926	38.3	11.9	51	51.3
SED-A-08-2-1.5	No	0.102	0.00020	0.212	0.618	117	61.1	179	110
SED-A-08-2-2.0	No	0.0822	0.00020	2.49	0.129	68.1	11.1	82	60.8
SED-A-08-2-2.5	No	0.0278	0.000059	0.536	0.101	4.99	0.281	5.9	8.1
SED-B-08-01-0.5	No	0.168	0.00023	0.00026	3.25	43.8	19.1	66	157
SED-C-08-01-0.5	No	3.06	0.0020	0.00086	26.6	376	151	557	216

Notes:

(1) Samples analyzed for elemental mercury did not contain visible elemental mercury; however, some samples were collected within the *estimated* footprint of elemental mercury based on observations of mercury spheres during previous investigations.

(2) Soil samples were collected in the vicinity of the main process area and submitted to Battelle Marine Science Laboratory for sequential extraction procedure (SEP) analysis in December 2006.

(3) Sediment samples were collected within South Branch Creek and submitted to Frontier Geosciences Inc. Laboratory for SEP analysis in May 2008.

Bold values indicate concentration above the 50 µg/L or 5 mg/kg equilibrium threshold. Note: the equilibrium threshold was verified by the analytical laboratories.

mg/kg = milligram per kilogram

mg/L = milligram per liter

ATTACHMENT A
Supplemental Data Tables

Table A-6.2
Mercury Speciation: Elemental Mercury Analysis on SEP F1 Fraction
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Within the Estimated Extent of Visible Elemental Mercury (1)	Elemental Mercury (2) (SEP - Fraction 1)	
		mg/kg	mg/L
Soil Samples			
230-B-101-0-1	Yes	0.0005 U	0.0000056 U
DSP-101-0-1	No	0.0005 U	0.0000085 U
LP-102-0-1	No	0.035	0.000696
231-102-0-1	Yes	0.656	0.012
231-101-01	No	0.0143	0.000219
BSL-101-0-1	No	0.0175	0.00037

Notes:

(1) Samples analyzed for elemental mercury did not contain visible elemental mercury; however, some samples were collected within the estimated footprint of visible mercury.

(2) Soil samples were collected in the vicinity of the main process area and submitted to Battelle Marine Science Laboratory for SEP analysis in December 2006. Elemental mercury analysis was subsequently performed by Battelle using an aliquot of the water sample from the F1 SEP extraction.

mg/kg = milligram per kilogram
mg/L = milligram per liter

ATTACHMENT A
Supplemental Data Tables

Table A-6.3
Mercury Speciation: Direct Elemental Mercury Analysis on Soil Samples
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample Location	Within the Estimated Extent of Visible Elemental Mercury (1)	Elemental Mercury (3) (Thermal Volatilization) (mg/kg)		Total Mercury (mg/kg)	Estimated Elemental Mercury %
Soil Samples (2)					
SS-08-01-0.5	No	0.04	J	0.546	7%
SS-08-02-0.5	No	0.0648	J	7.15	1%
SS-08-03-0.5	No	2.14		171	1%
SS-08-04-0.5	No	1.35		244	1%
SS-08-05-0.5	Yes	0.24	J	7.4	3%
SS-08-06-0.5	No	7.26		609	1%
SS-08-07-0.5	No	264		1750	15%
SS-08-08-0.5	No	57.9		887	7%

Notes:

(1) Samples analyzed for elemental mercury did not contain visible elemental mercury; however, some samples were collected within the estimated footprint of visible mercury.

(3) Soil samples were collected and submitted to Frontier Geosciences Inc. Laboratory for elemental mercury analysis in May 2008.

(2) Elemental mercury analysis entailed volatilizing the soil sample and collecting elemental Hg on two traps, acidifying the traps to remove captured Hg, and analyzing Hg in the acid.

mg/kg = milligrams per kilogram

ATTACHMENT A
Supplemental Data Tables

Table A-7.1
Calculation of PEF and VFs
Selection of Site-Specific Q/C Term
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Soil Dispersion Coefficient (Q/C) [1]								
Climate Zone	City	State	Source Area (Acres)					
			0.5	1	2	5	10	30
1	Seattle	WA	82.72	72.62	64.38	55.66	50.09	42.86
1	Salem	MA	73.44	64.42	57.09	52	44.37	37.94
2	Fresno	CA	62	54.37	48.16	41.57	37.36	31.9
2	Los Angeles	CA	68.81	60.24	53.3	45.93	41.24	35.15
2	San Francisco	CA	89.51	78.51	69.55	60.03	53.95	46.03
3	Las Vegas	NV	95.55	83.87	74.38	64.32	57.9	49.56
3	Phoenix	AZ	64.04	56.07	49.59	42.72	38.35	32.68
3	Albuquerque	NM	84.18	73.82	65.4	56.47	50.77	43.37
4	Boise	ID	69.41	60.88	53.94	46.57	41.87	35.75
4	Winnemucca	NV	69.23	60.67	53.72	46.35	41.65	35.55
4	Salt Lake City	UT	78.09	68.47	60.66	52.37	47.08	40.2
4	Casper	WY	100.13	87.87	77.91	67.34	60.59	51.8
4	Denver	CO	75.59	66.27	58.68	50.64	45.52	38.87
5	Bismark	ND	83.39	73.07	64.71	55.82	50.16	42.79
5	Minneapolis	MN	90.8	79.68	70.64	61.03	54.9	46.92
5	Lincoln	NB	81.64	71.47	63.22	54.47	48.89	41.65
6	Little Rock	AR	73.63	64.51	57.1	49.23	44.19	37.64
6	Houston	TX	79.25	69.47	61.53	53.11	47.74	40.76
6	Atlanta	GA	77.08	67.56	59.83	51.62	46.37	39.54
6	Charleston	SC	74.89	65.65	58.13	50.17	45.08	38.48
6	Raleigh-Durham	NC	77.26	67.75	60.01	51.78	46.51	39.64
7	Chicago	IL	97.78	85.81	76.08	65.75	59.16	50.6
7	Cleveland	OH	83.22	73.06	64.78	55.99	50.38	43.08
7	Huntington	WV	53.89	47.24	41.83	36.1	32.43	27.67
7	Harrisburg	PA	81.9	71.87	63.72	55.07	49.56	42.4
8	Portland	OR	74.23	65.01	57.52	49.57	44.49	37.88
8	Hartford	CT	71.35	62.55	55.4	47.83	43	36.73
8	Philadelphia [2]	PA	90.24	79.14	70.14	60.59	54.5	46.59
9	Miami	FL	85.61	74.97	66.33	57.17	51.33	43.74

Notes:

(1) Q/C values presented as (g/m^2-s per kg/m^3)

(2) Philadelphia, Pennsylvania is geographically the closest city to the Site and the Site is 26-acres in size; therefore, a Q/C term of 46.59 was selected.

ATTACHMENT A
Supplemental Data Tables

Table A-7.2
Calculation of PEF and VFs
Site-Specific PEF
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

$$PEF = Q/C \times \frac{3600\ (s/h)}{0.036 \times (1-V) \times (Um/Ut)^3 \times F(x)}$$

Parameters:

Symbol	Definition	Units	Value
PEF	Particulate Emission Factor	m^3/kg	**6.75E+08**
Q/C	Inverse of the mean conc. at the center of a 0.5-acre-square source	g/m^2-s per kg/m^3	46.59
V	Fraction of Vegetative Cover (default)	unitless	0.5
Um	Mean Annual Wind Speed (default)	m/s	4.69
Ut	Equivalent 10m Wind speed (default)	m/s	11.32
F(x)	Cowherd Function (default)	unitless	0.194

ATTACHMENT A
Supplemental Data Tables

Table A-7.3
Calculation of PEF and VFs
Site-Specific VF Equations and Inputs
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

$$VF = \frac{Q/C \times (\pi \times D_A \times T)^{1/2} \times 10^{-4} (m^2/cm^2)}{2 \times P_\beta \times D_A}$$

where:

$$D_A = \frac{[\Theta_a^{10/3} \times D_i \times H' \times \Theta_w^{10/3} \times D_w)/n^2]}{P_\beta \times K_d \times \Theta_w \times \Theta_a \times H'}$$

Parameters:

Symbol	Calculation Input	Definition	Units	Value
VF	VF	Volatilization Factor	m^3/kg	--
D_A	DA	Apparent Diffusivity	cm^2/s	--
Q/C	QC	Inverse of the mean conc. at the center of a 0.5-acre-square source	g/m^2-s per kg/m^3	46.59
T	T	Exposure interval	s	9.46E+08
P_β	rho_b	Dry soil bulk density	g/cm^3	1.5
Θ_a	theta_a	Air-filled soil porosity = n - Θw	L_{air}/L_{soil}	0.28
η	n	Total soil porosity = 1- (Pβ / PS)	L_{pore}/L_{soil}	0.43
Θ_w	theta_w	Water-filled soil porosity	L_{water}/L_{soil}	0.15
Notes:	rho_s	Soil particle density	g/cm^3	2.65
P_S	Di	Diffusivity in air	cm^2/s	chemical-specific
H	H	Henry's law constant	$atm\text{-}m^3/mol$	chemical-specific
H'	Hprime	Dimensionless Henry's law constant = H x 41	dimensionless	chemical-specific
D_w	Dw	Diffusivity in water	cm^2/s	chemical-specific
K_{OC}	Koc	Soil organic carbon-water partition coefficient	L/kg	chemical-specific
K_d	Kd	Soil-water partition coefficient = $K_{OC} \times f_{OC}$	L/kg	chemical-specific
f_{OC}	foc	Fraction organic carbon in soil	g/g	0.006

ATTACHMENT A
Supplemental Data Tables

Table A-7.4
Calculation of PEF and VFs
Chemical-Specific Inputs and Calculated VFs
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Volatile COPC Chemical-Specific Parameters (1)	CAS No	D_i cm^2/s	H' dimensionless	D_w cm^2/s	K_{OC} L/kg	Kd L/kg	D_A cm^2/s	VF m^3/kg
Mercury (elemental) (2)	7439-97-6	3.07E-02	4.67E-01	6.30E-06	--	5.20E+01	1.46E-05	2.21E+04
Cyanide	57-12-5	2.11E-01	5.44E-03	2.46E-05	2.84E+00	1.70E-02	5.19E-04	3.72E+03
Chlorophenol, 2-	95-57-8	6.61E-02	4.58E-04	9.48E-06	3.07E+02	1.84E+00	8.63E-07	9.11E+04
Dibenzofuran	132-64-9	4.10E-02	8.71E-03	7.38E-06	9.16E+03	5.50E+01	3.47E-07	1.44E+05
Dichlorobenzene, 1,2-	95-50-1	5.62E-02	7.85E-02	8.92E-06	3.83E+02	2.30E+00	9.74E-05	8.58E+03
Dichlorobenzene, 1,3- (3)	541-73-1	5.58E-02	1.08E-01	8.85E-06	3.75E+02	2.25E+00	1.35E-04	7.27E+03
Dichlorobenzene, 1,4-	106-46-7	5.50E-02	9.85E-02	8.68E-06	3.75E+02	2.25E+00	1.22E-04	7.67E+03
Methylnaphthalene, 2-	91-57-6	5.24E-02	2.12E-02	7.78E-06	2.48E+03	1.49E+01	3.95E-06	4.26E+04
Naphthalene	91-20-3	6.05E-02	1.80E-02	8.38E-06	1.54E+03	9.26E+00	6.20E-06	3.40E+04
Nitrobenzene	98-95-3	6.81E-02	9.81E-04	9.45E-06	2.26E+02	1.36E+00	2.48E-06	5.38E+04
Phenanthrene (3)	85-01-8	3.45E-02	1.73E-03	6.69E-06	1.67E+04	1.00E+02	3.21E-08	4.72E+05
Trichlorobenzene, 1,2,4-	120-82-1	3.96E-02	5.81E-02	8.40E-06	1.36E+03	8.14E+00	1.49E-05	2.20E+04
Benzene	71-43-2	8.95E-02	2.27E-01	1.03E-05	1.46E+02	8.75E-01	1.06E-03	2.60E+03
Chlorobenzene	108-90-7	7.21E-02	1.27E-01	9.48E-06	2.34E+02	1.40E+00	3.20E-04	4.73E+03
Chloroform	67-66-3	7.69E-02	1.50E-01	1.09E-05	3.18E+01	1.91E-01	1.93E-03	1.93E+03
Dichloroethane, 1,1-	75-34-3	8.36E-02	2.30E-01	1.06E-05	3.18E+01	1.91E-01	3.06E-03	1.53E+03
Dichloroethane, 1,2-	107-06-2	8.57E-02	4.82E-02	1.10E-05	3.96E+01	2.38E-01	6.36E-04	3.36E+03
Ethylbenzene	100-41-4	6.85E-02	3.22E-01	8.46E-06	4.46E+02	2.68E+00	4.14E-04	4.16E+03
Methylene Chloride	75-09-2	9.99E-02	1.33E-01	1.25E-05	2.17E+01	1.30E-01	2.77E-03	1.61E+03
Tetrachloroethylene	127-18-4	5.05E-02	7.24E-01	9.46E-06	9.49E+01	5.70E-01	2.41E-03	1.72E+03
Trichloroethylene	79-01-6	6.87E-02	4.03E-01	1.02E-05	6.07E+01	3.64E-01	2.73E-03	1.62E+03
Vinyl Chloride	75-01-4	1.07E-01	1.14E+00	1.20E-05	2.17E+01	1.30E-01	1.46E-02	7.02E+02
Xylenes, Mixed	1330-20-7	8.47E-02	2.12E-01	9.90E-06	3.83E+02	2.30E+00	3.92E-04	4.27E+03

Notes:

(1) Unless otherwise noted chemical-physical parameters were obtained from: *USEPA Regional Screening Levels for Chemical Contaminants at Superfund Sites* Chemical Specific Parameters Table. Available at: http://www.epa.gov/region9/superfund/prg/index.html. Updated: November 2010.

(2) A Koc value was not available for elemental mercury. The Kd value was obtained from the USEPA Superfund Chemical Database Matrix. Available online at: http://www.epa.gov/superfund/sites/npl/hrsres/tools/scdm.htm

(3) Chemical-specific parameters for 1,3-dichlorobenzene and phenanthrene were obtained from the following sources:

Di = USEPA, 2001

Dw = USEPA, 2001

H' = EPI HenryWin v3.2

Koc = EPI KOCWIN v2.0

ATTACHMENT B

ProUCL Statistics Software Outputs

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Aluminum

General Statistics

Number of Valid Observations	196	Number of Distinct Observations	149

Raw Statistics		Log-transformed Statistics	
Minimum	1120	Minimum of Log Data	7.021
Maximum	27700	Maximum of Log Data	10.23
Mean	11976	Mean of log Data	9.319
Median	11850	SD of log Data	0.412
SD	4187		
Coefficient of Variation	0.35		
Skewness	0.421		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.0432	Lilliefors Test Statistic	0.0828
Lilliefors Critical Value	0.0633	Lilliefors Critical Value	0.0633
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	12471	95% H-UCL	12787
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	13749
95% Adjusted-CLT UCL	12478	97.5% Chebyshev (MVUE) UCL	14449
95% Modified-t UCL	12472	99% Chebyshev (MVUE) UCL	15824

Gamma Distribution Test		Data Distribution
k star (bias corrected)	7.032	Data appear Normal at 5% Significance Level
Theta Star	1703	
MLE of Mean	11976	
MLE of Standard Deviation	4516	
nu star	2757	
Approximate Chi Square Value (.05)	2636	**Nonparametric Statistics**
Adjusted Level of Significance	0.0488	95% CLT UCL 12468
Adjusted Chi Square Value	2635	95% Jackknife UCL 12471
		95% Standard Bootstrap UCL 12467
Anderson-Darling Test Statistic	0.975	95% Bootstrap-t UCL 12482
Anderson-Darling 5% Critical Value	0.754	95% Hall's Bootstrap UCL 12487
Kolmogorov-Smirnov Test Statistic	0.0555	95% Percentile Bootstrap UCL 12459
Kolmogorov-Smirnov 5% Critical Value	0.0647	95% BCA Bootstrap UCL 12455
Data follow Appr. Gamma Distribution at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 13280
		97.5% Chebyshev(Mean, Sd) UCL 13844
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 14952
95% Approximate Gamma UCL	12526	
95% Adjusted Gamma UCL	12530	

Potential UCL to Use	Use 95% Student's-t UCL 12471

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Antimony

General Statistics

Number of Valid Data	199	Number of Detected Data	43
Number of Distinct Detected Data	39	Number of Non-Detect Data	156
		Percent Non-Detects	78.39%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.85	Minimum Detected	-0.163
Maximum Detected	197.5	Maximum Detected	5.286
Mean of Detected	23.54	Mean of Detected	1.914
SD of Detected	43.56	SD of Detected	1.526
Minimum Non-Detect	0.54	Minimum Non-Detect	-0.616
Maximum Non-Detect	5.7	Maximum Non-Detect	1.74

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	181
Number treated as Detected	18
Single DL Non-Detect Percentage	90.95%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.575	Shapiro Wilk Test Statistic	0.913
5% Shapiro Wilk Critical Value	0.943	5% Shapiro Wilk Critical Value	0.943
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	5.693	Mean	0.125
SD	22.16	SD	1.231
95% DL/2 (t) UCL	8.289	95% H-Stat (DL/2) UCL	2.98
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-1.133
		SD in Log Scale	2.229
		Mean in Original Scale	5.353
		SD in Original Scale	22.23
		95% Percentile Bootstrap UCL	8.164
		95% BCA Bootstrap UCL	8.917

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.489	Data do not follow a Discernable Distribution (0.05)	
Theta Star	48.17		
nu star	42.03		
A-D Test Statistic	3.031	**Nonparametric Statistics**	
5% A-D Critical Value	0.812	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.812	Mean	5.808
5% K-S Critical Value	0.143	SD	22.07
Data not Gamma Distributed at 5% Significance Level		SE of Mean	1.583
		95% KM (t) UCL	8.424
Assuming Gamma Distribution		95% KM (z) UCL	8.412
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	8.389
Minimum	0.85	95% KM (bootstrap t) UCL	9.647
Maximum	197.5	95% KM (BCA) UCL	8.619
Mean	22.82	95% KM (Percentile Bootstrap) UCL	8.788
Median	22.66	95% KM (Chebyshev) UCL	12.71
SD	20.13	97.5% KM (Chebyshev) UCL	15.7
k star	1.965	99% KM (Chebyshev) UCL	21.56
Theta star	11.61		
Nu star	782	Potential UCLs to Use	
AppChi2	718.1	95% KM (Chebyshev) UCL	12.71
95% Gamma Approximate UCL	24.85		
95% Adjusted Gamma UCL	24.87		

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Arsenic

General Statistics

Number of Valid Data	199	Number of Detected Data	196
Number of Distinct Detected Data	141	Number of Non-Detect Data	3
		Percent Non-Detects	1.51%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	1.05	Minimum Detected	0.0488
Maximum Detected	330.5	Maximum Detected	5.801
Mean of Detected	17.98	Mean of Detected	2.249
SD of Detected	36.12	SD of Detected	0.99
Minimum Non-Detect	1.2	Minimum Non-Detect	0.182
Maximum Non-Detect	2.4	Maximum Non-Detect	0.875

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	15
Number treated as Detected	184
Single DL Non-Detect Percentage	7.54%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.32	Lilliefors Test Statistic	0.0805
5% Lilliefors Critical Value	0.0633	5% Lilliefors Critical Value	0.0633
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	17.72	Mean	2.213
SD	35.91	SD	1.024
95% DL/2 (t) UCL	21.93	95% H-Stat (DL/2) UCL	18.13
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	15.85	Mean in Log Scale	2.217
SD	37.65	SD in Log Scale	1.015
95% MLE (t) UCL	20.26	Mean in Original Scale	17.72
95% MLE (Tiku) UCL	19.89	SD in Original Scale	35.91
		95% Percentile Bootstrap UCL	22.44
		95% BCA Bootstrap UCL	23.98

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.901	Data do not follow a Discernable Distribution (0.05)
Theta Star	19.96	
nu star	353.1	
A-D Test Statistic	9.709	
5% A-D Critical Value	0.788	
K-S Test Statistic	0.788	
5% K-S Critical Value	0.0668	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.000000001	Mean	17.73
Maximum	330.5	SD	35.81
Mean	17.71	SE of Mean	2.545
Median	8.5	95% KM (t) UCL	21.93
SD	35.91	95% KM (z) UCL	21.91
k star	0.625	95% KM (jackknife) UCL	21.93
Theta star	28.33	95% KM (bootstrap t) UCL	23.43
Nu star	248.8	95% KM (BCA) UCL	22.29
AppChi2	213.3	95% KM (Percentile Bootstrap) UCL	22.33
95% Gamma Approximate UCL	20.66	95% KM (Chebyshev) UCL	28.82
95% Adjusted Gamma UCL	20.68	97.5% KM (Chebyshev) UCL	33.62
		99% KM (Chebyshev) UCL	43.05
		Potential UCLs to Use	
		95% KM (BCA) UCL	22.29

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Barium

General Statistics

Number of Valid Data	193	Number of Detected Data	192
Number of Distinct Detected Data	185	Number of Non-Detect Data	1
		Percent Non-Detects	0.52%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	41.1	Minimum Detected	3.716
Maximum Detected	10500	Maximum Detected	9.259
Mean of Detected	1355	Mean of Detected	6.245
SD of Detected	2023	SD of Detected	1.409
Minimum Non-Detect	21	Minimum Non-Detect	3.045
Maximum Non-Detect	21	Maximum Non-Detect	3.045

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.261	Lilliefors Test Statistic	0.0837
5% Lilliefors Critical Value	0.0639	5% Lilliefors Critical Value	0.0639
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1348	Mean	6.225
SD	2020	SD	1.433
95% DL/2 (t) UCL	1589	95% H-Stat (DL/2) UCL	1844
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	1342	Mean in Log Scale	6.224
SD	2022	SD in Log Scale	1.435
95% MLE (t) UCL	1583	Mean in Original Scale	1348
95% MLE (Tiku) UCL	1560	SD in Original Scale	2020
		95% Percentile Bootstrap UCL	1587
		95% BCA Bootstrap UCL	1614

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.628	Data do not follow a Discernable Distribution (0.05)	
Theta Star	2159		
nu star	241		
A-D Test Statistic	7.118	**Nonparametric Statistics**	
5% A-D Critical Value	0.808	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.808	Mean	1348
5% K-S Critical Value	0.0689	SD	2015
Data not Gamma Distributed at 5% Significance Level		SE of Mean	145.4
		95% KM (t) UCL	1589
Assuming Gamma Distribution		95% KM (z) UCL	1588
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	1589
Minimum	0.000000001	95% KM (bootstrap t) UCL	1622
Maximum	10500	95% KM (BCA) UCL	1565
Mean	1348	95% KM (Percentile Bootstrap) UCL	1583
Median	408	95% KM (Chebyshev) UCL	1982
SD	2020	97.5% KM (Chebyshev) UCL	2257
k star	0.561	99% KM (Chebyshev) UCL	2795
Theta star	2404		
Nu star	216.4	Potential UCLs to Use	
AppChi2	183.4	95% KM (Chebyshev) UCL	1982
95% Gamma Approximate UCL	1591		
95% Adjusted Gamma UCL	1593		

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Beryllium

General Statistics

Number of Valid Data	199	Number of Detected Data	109
Number of Distinct Detected Data	75	Number of Non-Detect Data	90
		Percent Non-Detects	45.23%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.463	Minimum Detected	-0.771
Maximum Detected	27.3	Maximum Detected	3.307
Mean of Detected	3.689	Mean of Detected	0.436
SD of Detected	6.441	SD of Detected	1.146
Minimum Non-Detect	0.011	Minimum Non-Detect	-4.51
Maximum Non-Detect	2.3	Maximum Non-Detect	0.833

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	170
Number treated as Detected	29
Single DL Non-Detect Percentage	85.43%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.343	Lilliefors Test Statistic	0.186
5% Lilliefors Critical Value	0.0849	5% Lilliefors Critical Value	0.0849
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	2.156	Mean	-0.353
SD	5.049	SD	1.284
95% DL/2 (t) UCL	2.748	95% H-Stat (DL/2) UCL	2.004
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-0.57
		SD in Log Scale	1.471
		Mean in Original Scale	2.113
		SD in Original Scale	5.065
		95% Percentile Bootstrap UCL	2.707
		95% BCA Bootstrap UCL	2.831

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.683	Data do not follow a Discernable Distribution (0.05)
Theta Star	5.404	
nu star	148.8	
A-D Test Statistic	12.1	
5% A-D Critical Value	0.8	
K-S Test Statistic	0.8	
5% K-S Critical Value	0.0909	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.000000001	Mean	2.241
Maximum	27.3	SD	5.005
Mean	3.281	SE of Mean	0.356
Median	1.3	95% KM (t) UCL	2.83
SD	5.064	95% KM (z) UCL	2.828
k star	0.269	95% KM (jackknife) UCL	2.829
Theta star	12.21	95% KM (bootstrap t) UCL	2.983
Nu star	107	95% KM (BCA) UCL	2.834
AppChi2	84.11	95% KM (Percentile Bootstrap) UCL	2.819
95% Gamma Approximate UCL	4.173	95% KM (Chebyshev) UCL	3.795
95% Adjusted Gamma UCL	4.18	97.5% KM (Chebyshev) UCL	4.468
		99% KM (Chebyshev) UCL	5.788
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	3.795

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Cadmium

General Statistics

Number of Valid Data	199	Number of Detected Data	141
Number of Distinct Detected Data	86	Number of Non-Detect Data	58
		Percent Non-Detects	29.15%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.45	Minimum Detected	-0.799
Maximum Detected	87.5	Maximum Detected	4.472
Mean of Detected	3.836	Mean of Detected	0.645
SD of Detected	8.825	SD of Detected	0.989
Minimum Non-Detect	0.056	Minimum Non-Detect	-2.882
Maximum Non-Detect	13.25	Maximum Non-Detect	2.584

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	192
Number treated as Detected	7
Single DL Non-Detect Percentage	96.48%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.351	Lilliefors Test Statistic	0.116
5% Lilliefors Critical Value	0.0746	5% Lilliefors Critical Value	0.0746
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	2.834	Mean	0.0908
SD	7.598	SD	1.246
95% DL/2 (t) UCL	3.724	95% H-Stat (DL/2) UCL	2.945
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	0.0326
		SD in Log Scale	1.296
		Mean in Original Scale	2.795
		SD in Original Scale	7.598
		95% Percentile Bootstrap UCL	3.794
		95% BCA Bootstrap UCL	4.314

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.83	Data do not follow a Discernable Distribution (0.05)
Theta Star	4.623	
nu star	234	
A-D Test Statistic	9.402	
5% A-D Critical Value	0.791	
K-S Test Statistic	0.791	
5% K-S Critical Value	0.0817	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.000000001	Mean	2.864
Maximum	87.5	SD	7.558
Mean	2.845	SE of Mean	0.538
Median	1.1	95% KM (t) UCL	3.753
SD	7.598	95% KM (z) UCL	3.749
k star	0.173	95% KM (jackknife) UCL	3.747
Theta star	16.44	95% KM (bootstrap t) UCL	4.681
Nu star	68.9	95% KM (BCA) UCL	3.819
AppChi2	50.8	95% KM (Percentile Bootstrap) UCL	3.861
95% Gamma Approximate UCL	3.86	95% KM (Chebyshev) UCL	5.209
95% Adjusted Gamma UCL	3.868	97.5% KM (Chebyshev) UCL	6.223
		99% KM (Chebyshev) UCL	8.215
		Potential UCLs to Use	
		95% KM (BCA) UCL	3.819

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Chromium, Hexavalent

General Statistics

Number of Valid Data	22	Number of Detected Data	8
Number of Distinct Detected Data	8	Number of Non-Detect Data	14
		Percent Non-Detects	63.64%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.9	Minimum Detected	-0.105
Maximum Detected	7.3	Maximum Detected	1.988
Mean of Detected	3.163	Mean of Detected	0.985
SD of Detected	1.955	SD of Detected	0.635
Minimum Non-Detect	0.26	Minimum Non-Detect	-1.347
Maximum Non-Detect	1.3	Maximum Non-Detect	0.262

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	15
Number treated as Detected	7
Single DL Non-Detect Percentage	68.18%

Warning: There are only 8 Detected Values in this data
Note: It should be noted that even though bootstrap may be performed on this data set
the resulting calculations may not be reliable enough to draw conclusions

It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.889	Shapiro Wilk Test Statistic	0.974
5% Shapiro Wilk Critical Value	0.818	5% Shapiro Wilk Critical Value	0.818
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.497	Mean	-0.0605
SD	1.716	SD	0.943
95% DL/2 (t) UCL	2.126	95% H-Stat (DL/2) UCL	2.457
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-0.0916
		SD in Log Scale	1.023
		Mean in Original Scale	1.516
		SD in Original Scale	1.72
		95% Percentile Bootstrap UCL	2.123
		95% BCA Bootstrap UCL	2.315

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	2.059	Data appear Normal at 5% Significance Level	
Theta Star	1.536		
nu star	32.95		
A-D Test Statistic	0.213	**Nonparametric Statistics**	
5% A-D Critical Value	0.721	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.721	Mean	1.723
5% K-S Critical Value	0.296	SD	1.549
Data appear Gamma Distributed at 5% Significance Level		SE of Mean	0.353
		95% KM (t) UCL	2.33
Assuming Gamma Distribution		95% KM (z) UCL	2.304
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	2.268
Minimum	0.9	95% KM (bootstrap t) UCL	2.556
Maximum	7.3	95% KM (BCA) UCL	3.341
Mean	3.236	95% KM (Percentile Bootstrap) UCL	2.864
Median	3.38	95% KM (Chebyshev) UCL	3.262
SD	1.375	97.5% KM (Chebyshev) UCL	3.928
k star	4.887	99% KM (Chebyshev) UCL	5.237
Theta star	0.662		
Nu star	215	Potential UCLs to Use	
AppChi2	182.1	95% KM (t) UCL	2.33
95% Gamma Approximate UCL	3.822	95% KM (Percentile Bootstrap) UCL	2.864
95% Adjusted Gamma UCL	3.87		

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Cobalt

General Statistics

Number of Valid Data	199	Number of Detected Data	189
Number of Distinct Detected Data	150	Number of Non-Detect Data	10
		Percent Non-Detects	5.03%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	5.125	Minimum Detected	1.634
Maximum Detected	960.5	Maximum Detected	6.867
Mean of Detected	46.28	Mean of Detected	2.902
SD of Detected	130.6	SD of Detected	0.951
Minimum Non-Detect	5.4	Minimum Non-Detect	1.686
Maximum Non-Detect	6.1	Maximum Non-Detect	1.808

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	13
Number treated as Detected	186
Single DL Non-Detect Percentage	6.53%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.445	Lilliefors Test Statistic	0.199
5% Lilliefors Critical Value	0.0644	5% Lilliefors Critical Value	0.0644
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	44.1	Mean	2.809
SD	127.6	SD	1.012
95% DL/2 (t) UCL	59.05	95% H-Stat (DL/2) UCL	32.4
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	38.06	Mean in Log Scale	2.806
SD	132.6	SD in Log Scale	1.017
95% MLE (t) UCL	53.6	Mean in Original Scale	44.09
95% MLE (Tiku) UCL	52.1	SD in Original Scale	127.6
		95% Percentile Bootstrap UCL	60.63
		95% BCA Bootstrap UCL	62.19

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.648	Data do not follow a Discernable Distribution (0.05)
Theta Star	71.48	
nu star	244.8	
A-D Test Statistic	33.81	
5% A-D Critical Value	0.805	
K-S Test Statistic	0.805	
5% K-S Critical Value	0.0696	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.000000001	Mean	44.22
Maximum	960.5	SD	127.3
Mean	43.96	SE of Mean	9.047
Median	14.45	95% KM (t) UCL	59.17
SD	127.7	95% KM (z) UCL	59.1
k star	0.327	95% KM (jackknife) UCL	59.13
Theta star	134.5	95% KM (bootstrap t) UCL	64.94
Nu star	130.1	95% KM (BCA) UCL	60.95
AppChi2	104.8	95% KM (Percentile Bootstrap) UCL	60.59
95% Gamma Approximate UCL	54.59	95% KM (Chebyshev) UCL	83.65
95% Adjusted Gamma UCL	54.68	97.5% KM (Chebyshev) UCL	100.7
		99% KM (Chebyshev) UCL	134.2
		Potential UCLs to Use	
		95% KM (BCA) UCL	60.95

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Copper

General Statistics

Number of Valid Observations	191	Number of Distinct Observations	173

Raw Statistics		Log-transformed Statistics	
Minimum	6.6	Minimum of Log Data	1.887
Maximum	18000	Maximum of Log Data	9.798
Mean	766.7	Mean of log Data	5.201
Median	134	SD of log Data	1.43
SD	2165		
Coefficient of Variation	2.823		
Skewness	4.779		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.4	Lilliefors Test Statistic	0.133
Lilliefors Critical Value	0.0641	Lilliefors Critical Value	0.0641
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1026	95% H-UCL	659.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	811.7
95% Adjusted-CLT UCL	1082	97.5% Chebyshev (MVUE) UCL	946.9
95% Modified-t UCL	1035	99% Chebyshev (MVUE) UCL	1212

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.445	Data do not follow a Discernable Distribution (0.05)
Theta Star	1723	
MLE of Mean	766.7	
MLE of Standard Deviation	1149	
nu star	170	
Approximate Chi Square Value (.05)	140.8	**Nonparametric Statistics**
Adjusted Level of Significance	0.0487	95% CLT UCL 1024
Adjusted Chi Square Value	140.6	95% Jackknife UCL 1026
		95% Standard Bootstrap UCL 1027
Anderson-Darling Test Statistic	21.52	95% Bootstrap-t UCL 1110
Anderson-Darling 5% Critical Value	0.833	95% Hall's Bootstrap UCL 1116
Kolmogorov-Smirnov Test Statistic	0.261	95% Percentile Bootstrap UCL 1031
Kolmogorov-Smirnov 5% Critical Value	0.0703	95% BCA Bootstrap UCL 1083
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 1449
		97.5% Chebyshev(Mean, Sd) UCL 1745
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 2325
95% Approximate Gamma UCL	925.4	
95% Adjusted Gamma UCL	926.7	

Potential UCL to Use	Use 97.5% Chebyshev (Mean, Sd) UCL 1745

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Iron

General Statistics

Number of Valid Observations	199	Number of Distinct Observations	177

Raw Statistics		Log-transformed Statistics	
Minimum	2020	Minimum of Log Data	7.611
Maximum	374000	Maximum of Log Data	12.83
Mean	47633	Mean of log Data	10.46
Median	31700	SD of log Data	0.76
SD	49397		
Coefficient of Variation	1.037		
Skewness	3.47		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.241	Lilliefors Test Statistic	0.104
Lilliefors Critical Value	0.0628	Lilliefors Critical Value	0.0628
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	53420	95% H-UCL	51612
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	58546
95% Adjusted-CLT UCL	54314	97.5% Chebyshev (MVUE) UCL	63851
95% Modified-t UCL	53564	99% Chebyshev (MVUE) UCL	74272

Gamma Distribution Test		Data Distribution
k star (bias corrected)	1.71	Data do not follow a Discernable Distribution (0.05)
Theta Star	27856	
MLE of Mean	47633	
MLE of Standard Deviation	36426	
nu star	680.6	
Approximate Chi Square Value (.05)	621.1	**Nonparametric Statistics**
Adjusted Level of Significance	0.0488	95% CLT UCL 53393
Adjusted Chi Square Value	620.6	95% Jackknife UCL 53420
		95% Standard Bootstrap UCL 53303
Anderson-Darling Test Statistic	7.141	95% Bootstrap-t UCL 54672
Anderson-Darling 5% Critical Value	0.769	95% Hall's Bootstrap UCL 54841
Kolmogorov-Smirnov Test Statistic	0.159	95% Percentile Bootstrap UCL 53769
Kolmogorov-Smirnov 5% Critical Value	0.0649	95% BCA Bootstrap UCL 55050
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 62897
		97.5% Chebyshev(Mean, Sd) UCL 69501
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 82475
95% Approximate Gamma UCL	52199	
95% Adjusted Gamma UCL	52234	

Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL 62897

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Lead

General Statistics

Number of Valid Observations	199	Number of Distinct Observations	186

Raw Statistics		Log-transformed Statistics	
Minimum	3.2	Minimum of Log Data	1.163
Maximum	15450	Maximum of Log Data	9.645
Mean	596.2	Mean of log Data	4.682
Median	86.4	SD of log Data	1.467
SD	2045		
Coefficient of Variation	3.43		
Skewness	4.959		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.427	Lilliefors Test Statistic	0.125
Lilliefors Critical Value	0.0628	Lilliefors Critical Value	0.0628
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	835.7	95% H-UCL	416.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	512.8
95% Adjusted-CLT UCL	889	97.5% Chebyshev (MVUE) UCL	599.1
95% Modified-t UCL	844.2	99% Chebyshev (MVUE) UCL	768.8

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.385	Data do not follow a Discernable Distribution (0.05)
Theta Star	1550	
MLE of Mean	596.2	
MLE of Standard Deviation	961.3	
nu star	153.1	
Approximate Chi Square Value (.05)	125.5	**Nonparametric Statistics**
Adjusted Level of Significance	0.0488	95% CLT UCL 834.6
Adjusted Chi Square Value	125.3	95% Jackknife UCL 835.7
		95% Standard Bootstrap UCL 836.1
Anderson-Darling Test Statistic	26.77	95% Bootstrap-t UCL 930.5
Anderson-Darling 5% Critical Value	0.848	95% Hall's Bootstrap UCL 861.6
Kolmogorov-Smirnov Test Statistic	0.278	95% Percentile Bootstrap UCL 851.8
Kolmogorov-Smirnov 5% Critical Value	0.0686	95% BCA Bootstrap UCL 886.5
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 1228
		97.5% Chebyshev(Mean, Sd) UCL 1501
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 2038
95% Approximate Gamma UCL	727.3	
95% Adjusted Gamma UCL	728.4	

Potential UCL to Use	Use 97.5% Chebyshev (Mean, Sd) UCL 1501

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Manganese

General Statistics

Number of Valid Observations	199	Number of Distinct Observations	183

Raw Statistics		Log-transformed Statistics	
Minimum	7.1	Minimum of Log Data	1.96
Maximum	4810	Maximum of Log Data	8.478
Mean	578.7	Mean of log Data	5.991
Median	410	SD of log Data	0.891
SD	648.6		
Coefficient of Variation	1.121		
Skewness	3.929		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.255	Lilliefors Test Statistic	0.111
Lilliefors Critical Value	0.0628	Lilliefors Critical Value	0.0628
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	654.7	95% H-UCL	678.5
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	784.3
95% Adjusted-CLT UCL	668	97.5% Chebyshev (MVUE) UCL	867
95% Modified-t UCL	656.8	99% Chebyshev (MVUE) UCL	1030

Gamma Distribution Test		Data Distribution
k star (bias corrected)	1.479	Data do not follow a Discernable Distribution (0.05)
Theta Star	391.2	
MLE of Mean	578.7	
MLE of Standard Deviation	475.8	
nu star	588.8	
Approximate Chi Square Value (.05)	533.5	**Nonparametric Statistics**
Adjusted Level of Significance	0.0488	95% CLT UCL 654.3
Adjusted Chi Square Value	533.1	95% Jackknife UCL 654.7
		95% Standard Bootstrap UCL 653.2
Anderson-Darling Test Statistic	5.673	95% Bootstrap-t UCL 676.8
Anderson-Darling 5% Critical Value	0.771	95% Hall's Bootstrap UCL 672.3
Kolmogorov-Smirnov Test Statistic	0.147	95% Percentile Bootstrap UCL 659.6
Kolmogorov-Smirnov 5% Critical Value	0.0651	95% BCA Bootstrap UCL 670.3
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 779.1
		97.5% Chebyshev(Mean, Sd) UCL 865.8
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 1036
95% Approximate Gamma UCL	638.6	
95% Adjusted Gamma UCL	639.1	

Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL 779.1

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Mercury

General Statistics

Number of Valid Observations	202	Number of Distinct Observations	196

Raw Statistics		Log-transformed Statistics	
Minimum	0.0455	Minimum of Log Data	-3.09
Maximum	7870	Maximum of Log Data	8.971
Mean	460.2	Mean of log Data	4.156
Median	84.7	SD of log Data	2.426
SD	1094		
Coefficient of Variation	2.377		
Skewness	4.304		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.337	Lilliefors Test Statistic	0.089
Lilliefors Critical Value	0.0623	Lilliefors Critical Value	0.0623
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	587.4	95% H-UCL	2259
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2713
95% Adjusted-CLT UCL	611.7	97.5% Chebyshev (MVUE) UCL	3391
95% Modified-t UCL	591.3	99% Chebyshev (MVUE) UCL	4722

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.34	Data do not follow a Discernable Distribution (0.05)
Theta Star	1354	
MLE of Mean	460.2	
MLE of Standard Deviation	789.3	
nu star	137.3	
Approximate Chi Square Value (.05)	111.3	**Nonparametric Statistics**
Adjusted Level of Significance	0.0488	95% CLT UCL 586.8
Adjusted Chi Square Value	111.1	95% Jackknife UCL 587.4
		95% Standard Bootstrap UCL 585.8
Anderson-Darling Test Statistic	3.426	95% Bootstrap-t UCL 625.8
Anderson-Darling 5% Critical Value	0.859	95% Hall's Bootstrap UCL 621.3
Kolmogorov-Smirnov Test Statistic	0.117	95% Percentile Bootstrap UCL 594.3
Kolmogorov-Smirnov 5% Critical Value	0.0685	95% BCA Bootstrap UCL 617.6
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 795.7
		97.5% Chebyshev(Mean, Sd) UCL 940.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 1226
95% Approximate Gamma UCL	568	
95% Adjusted Gamma UCL	568.9	

Potential UCL to Use	Use 99% Chebyshev (Mean, Sd) UCL 1226

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Nickel

General Statistics

Number of Valid Data	199	Number of Detected Data	196
Number of Distinct Detected Data	176	Number of Non-Detect Data	3
		Percent Non-Detects	1.51%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	5.7	Minimum Detected	1.74
Maximum Detected	1310	Maximum Detected	7.178
Mean of Detected	92.89	Mean of Detected	3.792
SD of Detected	184.9	SD of Detected	1.015
Minimum Non-Detect	4.3	Minimum Non-Detect	1.459
Maximum Non-Detect	4.5	Maximum Non-Detect	1.504

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	3
Number treated as Detected	196
Single DL Non-Detect Percentage	1.51%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.33	Lilliefors Test Statistic	0.16
5% Lilliefors Critical Value	0.0633	5% Lilliefors Critical Value	0.0633
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	91.52	Mean	3.746
SD	183.9	SD	1.072
95% DL/2 (t) UCL	113.1	95% H-Stat (DL/2) UCL	89.27
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	89.73	Mean in Log Scale	3.753
SD	185.2	SD in Log Scale	1.054
95% MLE (t) UCL	111.4	Mean in Original Scale	91.54
95% MLE (Tiku) UCL	109.1	SD in Original Scale	183.8
		95% Percentile Bootstrap UCL	114.7
		95% BCA Bootstrap UCL	115

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.793	Data do not follow a Discernable Distribution (0.05)
Theta Star	117.1	
nu star	311	
A-D Test Statistic	17.74	
5% A-D Critical Value	0.794	
K-S Test Statistic	0.794	
5% K-S Critical Value	0.0671	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.000000001	Mean	91.57
Maximum	1310	SD	183.4
Mean	91.49	SE of Mean	13.03
Median	34.4	95% KM (t) UCL	113.1
SD	183.9	95% KM (z) UCL	113
k star	0.564	95% KM (jackknife) UCL	113.1
Theta star	162.2	95% KM (bootstrap t) UCL	119.6
Nu star	224.5	95% KM (BCA) UCL	115
AppChi2	190.8	95% KM (Percentile Bootstrap) UCL	113.8
95% Gamma Approximate UCL	107.6	95% KM (Chebyshev) UCL	148.4
95% Adjusted Gamma UCL	107.8	97.5% KM (Chebyshev) UCL	173
		99% KM (Chebyshev) UCL	221.2
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	148.4

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Silver

General Statistics

Number of Valid Data	199	Number of Detected Data	49
Number of Distinct Detected Data	36	Number of Non-Detect Data	150
		Percent Non-Detects	75.38%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	1.1	Minimum Detected	0.0953
Maximum Detected	53.2	Maximum Detected	3.974
Mean of Detected	3.825	Mean of Detected	0.809
SD of Detected	7.965	SD of Detected	0.775
Minimum Non-Detect	0.079	Minimum Non-Detect	-2.538
Maximum Non-Detect	4.6	Maximum Non-Detect	1.526

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	194
Number treated as Detected	5
Single DL Non-Detect Percentage	97.49%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.345	Shapiro Wilk Test Statistic	0.777
5% Shapiro Wilk Critical Value	0.947	5% Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.38	Mean	-0.242
SD	4.168	SD	0.774
95% DL/2 (t) UCL	1.868	95% H-Stat (DL/2) UCL	1.183
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-1.1
		SD in Log Scale	1.45
		Mean in Original Scale	1.143
		SD in Original Scale	4.216
		95% Percentile Bootstrap UCL	1.696
		95% BCA Bootstrap UCL	1.945

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	1.023	Data do not follow a Discernable Distribution (0.05)
Theta Star	3.737	
nu star	100.3	
A-D Test Statistic	6.341	
5% A-D Critical Value	0.778	
K-S Test Statistic	0.778	
5% K-S Critical Value	0.13	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1.1	Mean	1.773
Maximum	53.2	SD	4.084
Mean	4.225	SE of Mean	0.293
Median	4.077	95% KM (t) UCL	2.257
SD	3.978	95% KM (z) UCL	2.255
k star	3.6	95% KM (jackknife) UCL	2.253
Theta star	1.174	95% KM (bootstrap t) UCL	3.496
Nu star	1433	95% KM (BCA) UCL	2.338
AppChi2	1346	95% KM (Percentile Bootstrap) UCL	2.307
95% Gamma Approximate UCL	4.498	95% KM (Chebyshev) UCL	3.049
95% Adjusted Gamma UCL	4.5	97.5% KM (Chebyshev) UCL	3.6
		99% KM (Chebyshev) UCL	4.684
		Potential UCLs to Use	
		95% KM (t) UCL	2.257
		95% KM (% Bootstrap) UCL	2.307

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Vanadium

General Statistics

Number of Valid Data	199	Number of Detected Data	197
Number of Distinct Detected Data	170	Number of Non-Detect Data	2
		Percent Non-Detects	1.01%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	10	Minimum Detected	2.303
Maximum Detected	249	Maximum Detected	5.517
Mean of Detected	47.89	Mean of Detected	3.776
SD of Detected	23.02	SD of Detected	0.436
Minimum Non-Detect	27	Minimum Non-Detect	3.296
Maximum Non-Detect	132.5	Maximum Non-Detect	4.887

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	198
Number treated as Detected	1
Single DL Non-Detect Percentage	99.50%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.0936	Lilliefors Test Statistic	0.049
5% Lilliefors Critical Value	0.0631	5% Lilliefors Critical Value	0.0631
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	47.81	Mean	3.772
SD	23.07	SD	0.443
95% DL/2 (t) UCL	50.51	95% H-Stat (DL/2) UCL	50.73
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	3.773
		SD in Log Scale	0.436
		Mean in Original Scale	47.74
		SD in Original Scale	22.97
		95% Percentile Bootstrap UCL	50.49
		95% BCA Bootstrap UCL	51.28

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	5.48	Data appear Gamma Distributed at 5% Significance Level
Theta Star	8.739	
nu star	2159	
A-D Test Statistic	0.616	
5% A-D Critical Value	0.755	
K-S Test Statistic	0.755	
5% K-S Critical Value	0.0645	
Data appear Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	10	Mean	47.75
Maximum	249	SD	22.96
Mean	47.75	SE of Mean	1.635
Median	45.2	95% KM (t) UCL	50.45
SD	23.01	95% KM (z) UCL	50.44
k star	5.417	95% KM (jackknife) UCL	50.45
Theta star	8.814	95% KM (bootstrap t) UCL	50.98
Nu star	2156	95% KM (BCA) UCL	50.52
AppChi2	2049	95% KM (Percentile Bootstrap) UCL	50.6
95% Gamma Approximate UCL	50.24	95% KM (Chebyshev) UCL	54.87
95% Adjusted Gamma UCL	50.26	97.5% KM (Chebyshev) UCL	57.95
		99% KM (Chebyshev) UCL	64.01
		Potential UCLs to Use	
		95% KM (BCA) UCL	50.52

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_Metal_Zinc

General Statistics

Number of Valid Observations	180	Number of Distinct Observations	175

Raw Statistics		Log-transformed Statistics	
Minimum	6.5	Minimum of Log Data	1.872
Maximum	114000	Maximum of Log Data	11.64
Mean	4939	Mean of log Data	6.073
Median	317	SD of log Data	1.799
SD	18088		
Coefficient of Variation	3.662		
Skewness	4.601		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.463	Lilliefors Test Statistic	0.0941
Lilliefors Critical Value	0.066	Lilliefors Critical Value	0.066
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	7169	95% H-UCL	3270
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	4081
95% Adjusted-CLT UCL	7651	97.5% Chebyshev (MVUE) UCL	4920
95% Modified-t UCL	7246	99% Chebyshev (MVUE) UCL	6569

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.285	Data do not follow a Discernable Distribution (0.05)
Theta Star	17346	
MLE of Mean	4939	
MLE of Standard Deviation	9256	
nu star	102.5	
Approximate Chi Square Value (.05)	80.15	**Nonparametric Statistics**
Adjusted Level of Significance	0.0487	95% CLT UCL 7157
Adjusted Chi Square Value	79.99	95% Jackknife UCL 7169
		95% Standard Bootstrap UCL 7094
Anderson-Darling Test Statistic	25.67	95% Bootstrap-t UCL 8013
Anderson-Darling 5% Critical Value	0.875	95% Hall's Bootstrap UCL 7472
Kolmogorov-Smirnov Test Statistic	0.295	95% Percentile Bootstrap UCL 7227
Kolmogorov-Smirnov 5% Critical Value	0.0749	95% BCA Bootstrap UCL 7841
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 10816
		97.5% Chebyshev(Mean, Sd) UCL 13359
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 18354
95% Approximate Gamma UCL	6318	
95% Adjusted Gamma UCL	6330	
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL 13359

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_PCB_Total PCBs

General Statistics

Number of Valid Observations	199	Number of Distinct Observations	173

Raw Statistics		Log-transformed Statistics	
Minimum	0.0115	Minimum of Log Data	-4.47
Maximum	18.52	Maximum of Log Data	2.919
Mean	1.653	Mean of log Data	-1.174
Median	0.42	SD of log Data	2.077
SD	3.282		
Coefficient of Variation	1.986		
Skewness	3.102		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.308	Lilliefors Test Statistic	0.123
Lilliefors Critical Value	0.0628	Lilliefors Critical Value	0.0628
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	2.038	95% H-UCL	4.355
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	5.369
95% Adjusted-CLT UCL	2.09	97.5% Chebyshev (MVUE) UCL	6.575
95% Modified-t UCL	2.046	99% Chebyshev (MVUE) UCL	8.943

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.391	Data do not follow a Discernable Distribution (0.05)
Theta Star	4.229	
MLE of Mean	1.653	
MLE of Standard Deviation	2.644	
nu star	155.6	
Approximate Chi Square Value (.05)	127.7	**Nonparametric Statistics**
Adjusted Level of Significance	0.0488	95% CLT UCL 2.036
Adjusted Chi Square Value	127.5	95% Jackknife UCL 2.038
		95% Standard Bootstrap UCL 2.036
Anderson-Darling Test Statistic	4.716	95% Bootstrap-t UCL 2.104
Anderson-Darling 5% Critical Value	0.847	95% Hall's Bootstrap UCL 2.075
Kolmogorov-Smirnov Test Statistic	0.11	95% Percentile Bootstrap UCL 2.03
Kolmogorov-Smirnov 5% Critical Value	0.0686	95% BCA Bootstrap UCL 2.097
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 2.667
		97.5% Chebyshev(Mean, Sd) UCL 3.106
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 3.968
95% Approximate Gamma UCL	2.013	
95% Adjusted Gamma UCL	2.016	

Potential UCL to Use	Use 99% Chebyshev (Mean, Sd) UCL 3.968

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_2,3,7,8 TCDD TEQ-Dioxins

General Statistics

Number of Valid Observations 14
Number of Distinct Observations 14

Raw Statistics

Minimum	6.199E-07
Maximum	0.000021197
Mean	6.9796E-06
Median	3.6829E-06
SD	7.4716E-06
Coefficient of Variation	N/A
Skewness	1.136

Log-transformed Statistics

Minimum of Log Data	-14.29
Maximum of Log Data	-10.76
Mean of log Data	-12.43
SD of log Data	1.123

Relevant UCL Statistics

Normal Distribution Test

Shapiro Wilk Test Statistic	0.759
Shapiro Wilk Critical Value	0.874

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.936
Shapiro Wilk Critical Value	0.874

Data appear Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	0.000010516

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	0.000010912
95% Modified-t UCL	0.000010617

Assuming Lognormal Distribution

95% H-UCL	0.000019064
95% Chebyshev (MVUE) UCL	0.000017083
97.5% Chebyshev (MVUE) UCL	0.000021442
99% Chebyshev (MVUE) UCL	0.000030007

Gamma Distribution Test

k star (bias corrected)	0.854
Theta Star	8.1771E-06
MLE of Mean	6.9796E-06
MLE of Standard Deviation	7.5546E-06
nu star	23.9
Approximate Chi Square Value (.05)	13.77
Adjusted Level of Significance	0.0312
Adjusted Chi Square Value	12.76
Anderson-Darling Test Statistic	0.715
Anderson-Darling 5% Critical Value	0.759
Kolmogorov-Smirnov Test Statistic	0.225
Kolmogorov-Smirnov 5% Critical Value	0.235

Data appear Gamma Distributed at 5% Significance Level

Data Distribution

Data appear Gamma Distributed at 5% Significance Level

Nonparametric Statistics

95% CLT UCL	0.000010264
95% Jackknife UCL	0.000010516
95% Standard Bootstrap UCL	0.000010165
95% Bootstrap-t UCL	0.000011691
95% Hall's Bootstrap UCL	9.7247E-06
95% Percentile Bootstrap UCL	0.000010246
95% BCA Bootstrap UCL	0.000010575
95% Chebyshev(Mean, Sd) UCL	0.000015684
97.5% Chebyshev(Mean, Sd) UCL	0.00001945
99% Chebyshev(Mean, Sd) UCL	0.000026848

Assuming Gamma Distribution

95% Approximate Gamma UCL	0.000012112
95% Adjusted Gamma UCL	0.000013072

Potential UCL to Use

Use 95% Approximate Gamma UCL 0.000012112

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_2,3,7,8 TCDD TEQ-Furans

General Statistics

Number of Valid Observations	14	Number of Distinct Observations	14

Raw Statistics		Log-transformed Statistics	
Minimum	1.9774E-07	Minimum of Log Data	-15.44
Maximum	0.0008845	Maximum of Log Data	-7.03
Mean	0.00015817	Mean of log Data	-10.32
Median	0.000042691	SD of log Data	2.128
SD	0.00030056		
Coefficient of Variation	1.9		
Skewness	2.238		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.534	Shapiro Wilk Test Statistic	0.934
Shapiro Wilk Critical Value	0.874	Shapiro Wilk Critical Value	0.874
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.00030043	95% H-UCL	0.00585
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00081747
95% Adjusted-CLT UCL	0.00034163	97.5% Chebyshev (MVUE) UCL	0.00108
95% Modified-t UCL	0.00030844	99% Chebyshev (MVUE) UCL	0.00159

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.376	Data appear Gamma Distributed at 5% Significance Level
Theta Star	0.00042095	
MLE of Mean	0.00015817	
MLE of Standard Deviation	0.00025804	
nu star	10.52	
Approximate Chi Square Value (.05)	4.27	**Nonparametric Statistics**
Adjusted Level of Significance	0.0312	95% CLT UCL 0.0002903
Adjusted Chi Square Value	3.756	95% Jackknife UCL 0.00030043
		95% Standard Bootstrap UCL 0.00028479
Anderson-Darling Test Statistic	0.769	95% Bootstrap-t UCL 0.00115
Anderson-Darling 5% Critical Value	0.809	95% Hall's Bootstrap UCL 0.00115
Kolmogorov-Smirnov Test Statistic	0.23	95% Percentile Bootstrap UCL 0.0002835
Kolmogorov-Smirnov 5% Critical Value	0.244	95% BCA Bootstrap UCL 0.00033559
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 0.00050831
		97.5% Chebyshev(Mean, Sd) UCL 0.00065982
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 0.00095742
95% Approximate Gamma UCL	0.00038973	
95% Adjusted Gamma UCL	0.00044308	
Potential UCL to Use		Use 95% Adjusted Gamma UCL 0.00044308

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_SVOC_B(a)P

General Statistics

Number of Valid Observations	199	Number of Distinct Observations	190

Raw Statistics		Log-transformed Statistics	
Minimum	0.0179	Minimum of Log Data	-4.024
Maximum	101.5	Maximum of Log Data	4.62
Mean	0.943	Mean of log Data	-1.619
Median	0.155	SD of log Data	1.194
SD	7.259		
Coefficient of Variation	7.701		
Skewness	13.59		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.449	Lilliefors Test Statistic	0.109
Lilliefors Critical Value	0.0628	Lilliefors Critical Value	0.0628
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.793	95% H-UCL	0.493
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.592
95% Adjusted-CLT UCL	2.319	97.5% Chebyshev (MVUE) UCL	0.675
95% Modified-t UCL	1.876	99% Chebyshev (MVUE) UCL	0.837

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.416	Data do not follow a Discernable Distribution (0.05)
Theta Star	2.267	
MLE of Mean	0.943	
MLE of Standard Deviation	1.462	
nu star	165.5	
Approximate Chi Square Value (.05)	136.7	**Nonparametric Statistics**
Adjusted Level of Significance	0.0488	95% CLT UCL 1.789
Adjusted Chi Square Value	136.6	95% Jackknife UCL 1.793
		95% Standard Bootstrap UCL 1.794
Anderson-Darling Test Statistic	5.025E+28	95% Bootstrap-t UCL 8.233
Anderson-Darling 5% Critical Value	0.84	95% Hall's Bootstrap UCL 4.932
Kolmogorov-Smirnov Test Statistic	0.291	95% Percentile Bootstrap UCL 1.931
Kolmogorov-Smirnov 5% Critical Value	0.0683	95% BCA Bootstrap UCL 2.916
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 3.185
		97.5% Chebyshev(Mean, Sd) UCL 4.156
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 6.062
95% Approximate Gamma UCL	1.141	
95% Adjusted Gamma UCL	1.142	
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL 4.156

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_SVOC_Bis(2-Ethylhexyl) Phthalate

General Statistics

Number of Valid Data	199	Number of Detected Data	154
Number of Distinct Detected Data	146	Number of Non-Detect Data	45
		Percent Non-Detects	22.61%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0426	Minimum Detected	-3.156
Maximum Detected	129	Maximum Detected	4.86
Mean of Detected	1.572	Mean of Detected	-1.094
SD of Detected	10.42	SD of Detected	1.293
Minimum Non-Detect	0.044	Minimum Non-Detect	-3.124
Maximum Non-Detect	0.52	Maximum Non-Detect	-0.654

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	151
Number treated as Detected	48
Single DL Non-Detect Percentage	75.88%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.442	Lilliefors Test Statistic	0.106
5% Lilliefors Critical Value	0.0714	5% Lilliefors Critical Value	0.0714
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.237	Mean	-1.485
SD	9.179	SD	1.42
95% DL/2 (t) UCL	2.312	95% H-Stat (DL/2) UCL	0.775
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-1.554
		SD in Log Scale	1.472
		Mean in Original Scale	1.23
		SD in Original Scale	9.18
		95% Percentile Bootstrap UCL	2.52
		95% BCA Bootstrap UCL	3.288

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.418	Data do not follow a Discernable Distribution (0.05)
Theta Star	3.76	
nu star	128.7	
A-D Test Statistic	6.494E+28	
5% A-D Critical Value	0.839	
K-S Test Statistic	0.839	
5% K-S Critical Value	0.0807	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.000000001	Mean	1.235
Maximum	129	SD	9.156
Mean	1.261	SE of Mean	0.651
Median	0.221	95% KM (t) UCL	2.311
SD	9.179	95% KM (z) UCL	2.306
k star	0.164	95% KM (jackknife) UCL	2.31
Theta star	7.688	95% KM (bootstrap t) UCL	8.297
Nu star	65.3	95% KM (BCA) UCL	2.656
AppChi2	47.71	95% KM (Percentile Bootstrap) UCL	2.517
95% Gamma Approximate UCL	1.727	95% KM (Chebyshev) UCL	4.073
95% Adjusted Gamma UCL	1.731	97.5% KM (Chebyshev) UCL	5.302
		99% KM (Chebyshev) UCL	7.714
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	4.073

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_SVOC_Dibenzofuran

General Statistics

Number of Valid Data	199	Number of Detected Data	61
Number of Distinct Detected Data	61	Number of Non-Detect Data	138
		Percent Non-Detects	69.35%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.018	Minimum Detected	-4.017
Maximum Detected	14.2	Maximum Detected	2.653
Mean of Detected	0.711	Mean of Detected	-2.232
SD of Detected	2.438	SD of Detected	1.507
Minimum Non-Detect	0.016	Minimum Non-Detect	-4.135
Maximum Non-Detect	0.78	Maximum Non-Detect	-0.248

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	192
Number treated as Detected	7
Single DL Non-Detect Percentage	96.48%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.422	Lilliefors Test Statistic	0.183
5% Lilliefors Critical Value	0.113	5% Lilliefors Critical Value	0.113
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.267	Mean	-2.845
SD	1.376	SD	1.235
95% DL/2 (t) UCL	0.428	95% H-Stat (DL/2) UCL	0.146
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-3.761
		SD in Log Scale	1.569
		Mean in Original Scale	0.231
		SD in Original Scale	1.38
		95% Percentile Bootstrap UCL	0.391
		95% BCA Bootstrap UCL	0.486

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.348	Data do not follow a Discernable Distribution (0.05)
Theta Star	2.043	
nu star	42.48	
A-D Test Statistic	9.677	
5% A-D Critical Value	0.851	
K-S Test Statistic	0.851	
5% K-S Critical Value	0.123	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.018	Mean	0.241
Maximum	14.2	SD	1.375
Mean	0.702	SE of Mean	0.0983
Median	0.65	95% KM (t) UCL	0.403
SD	1.343	95% KM (z) UCL	0.402
k star	0.98	95% KM (jackknife) UCL	0.402
Theta star	0.717	95% KM (bootstrap t) UCL	0.844
Nu star	389.8	95% KM (BCA) UCL	0.453
AppChi2	345.1	95% KM (Percentile Bootstrap) UCL	0.43
95% Gamma Approximate UCL	0.793	95% KM (Chebyshev) UCL	0.669
95% Adjusted Gamma UCL	0.794	97.5% KM (Chebyshev) UCL	0.855
		99% KM (Chebyshev) UCL	1.219
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	0.669

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_SVOC_1,4-Dichlorobenzene

General Statistics

Number of Valid Data	199	Number of Detected Data	25
Number of Distinct Detected Data	25	Number of Non-Detect Data	174
		Percent Non-Detects	87.44%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0224	Minimum Detected	-3.799
Maximum Detected	4.17	Maximum Detected	1.428
Mean of Detected	0.456	Mean of Detected	-2.214
SD of Detected	1.081	SD of Detected	1.378
Minimum Non-Detect	0.015	Minimum Non-Detect	-4.2
Maximum Non-Detect	2.1	Maximum Non-Detect	0.742

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	197
Number treated as Detected	2
Single DL Non-Detect Percentage	98.99%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.433	Shapiro Wilk Test Statistic	0.773
5% Shapiro Wilk Critical Value	0.918	5% Shapiro Wilk Critical Value	0.918
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.119	Mean	-3.008
SD	0.409	SD	1.007
95% DL/2 (t) UCL	0.167	95% H-Stat (DL/2) UCL	0.0944
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-4.833
		SD in Log Scale	1.492
		Mean in Original Scale	0.0656
		SD in Original Scale	0.405
		95% Percentile Bootstrap UCL	0.116
		95% BCA Bootstrap UCL	0.137

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.424	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.076	
nu star	21.2	
A-D Test Statistic	4.388	
5% A-D Critical Value	0.818	
K-S Test Statistic	0.818	
5% K-S Critical Value	0.186	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.000000001	Mean	0.0829
Maximum	4.17	SD	0.402
Mean	0.366	SE of Mean	0.0291
Median	0.361	95% KM (t) UCL	0.131
SD	0.425	95% KM (z) UCL	0.131
k star	0.245	95% KM (jackknife) UCL	0.129
Theta star	1.494	95% KM (bootstrap t) UCL	0.515
Nu star	97.52	95% KM (BCA) UCL	0.144
AppChi2	75.74	95% KM (Percentile Bootstrap) UCL	0.134
95% Gamma Approximate UCL	0.471	95% KM (Chebyshev) UCL	0.21
95% Adjusted Gamma UCL	0.472	97.5% KM (Chebyshev) UCL	0.265
		99% KM (Chebyshev) UCL	0.373
		Potential UCLs to Use	
		95% KM (BCA) UCL	0.144

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_SVOC_Hexachlorobenzene

General Statistics

Number of Valid Data	199	Number of Detected Data	118
Number of Distinct Detected Data	115	Number of Non-Detect Data	81
		Percent Non-Detects	40.70%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0238	Minimum Detected	-3.738
Maximum Detected	1440	Maximum Detected	7.272
Mean of Detected	18.56	Mean of Detected	-0.736
SD of Detected	134.9	SD of Detected	2.054
Minimum Non-Detect	0.02	Minimum Non-Detect	-3.912
Maximum Non-Detect	2.1	Maximum Non-Detect	0.742

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	177
Number treated as Detected	22
Single DL Non-Detect Percentage	88.94%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.465	Lilliefors Test Statistic	0.0954
5% Lilliefors Critical Value	0.0816	5% Lilliefors Critical Value	0.0816
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	11.03	Mean	-1.781
SD	104.1	SD	2.142
95% DL/2 (t) UCL	23.22	95% H-Stat (DL/2) UCL	2.494
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-2.378
		SD in Log Scale	2.658
		Mean in Original Scale	11.01
		SD in Original Scale	104.1
		95% Percentile Bootstrap UCL	24.69
		95% BCA Bootstrap UCL	34.93

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.202	Data do not follow a Discernable Distribution (0.05)
Theta Star	92.05	
nu star	47.58	
A-D Test Statistic	20.16	
5% A-D Critical Value	0.912	
K-S Test Statistic	0.912	
5% K-S Critical Value	0.0939	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.000000001	Mean	11.02
Maximum	1440	SD	103.8
Mean	12.23	SE of Mean	7.39
Median	0.0848	95% KM (t) UCL	23.23
SD	104.2	95% KM (z) UCL	23.18
k star	0.0822	95% KM (jackknife) UCL	23.21
Theta star	148.8	95% KM (bootstrap t) UCL	79.68
Nu star	32.7	95% KM (BCA) UCL	26.13
AppChi2	20.63	95% KM (Percentile Bootstrap) UCL	25
95% Gamma Approximate UCL	19.38	95% KM (Chebyshev) UCL	43.23
95% Adjusted Gamma UCL	19.45	97.5% KM (Chebyshev) UCL	57.17
		99% KM (Chebyshev) UCL	84.55
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	57.17

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_SVOC_Hexachlorobutadiene

General Statistics

Number of Valid Data	199	Number of Detected Data	35
Number of Distinct Detected Data	35	Number of Non-Detect Data	164
		Percent Non-Detects	82.41%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0256	Minimum Detected	-3.665
Maximum Detected	60.65	Maximum Detected	4.105
Mean of Detected	2.921	Mean of Detected	-1.189
SD of Detected	10.69	SD of Detected	1.811
Minimum Non-Detect	0.023	Minimum Non-Detect	-3.772
Maximum Non-Detect	2.1	Maximum Non-Detect	0.742

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	195
Number treated as Detected	4
Single DL Non-Detect Percentage	97.99%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.297	Shapiro Wilk Test Statistic	0.916
5% Shapiro Wilk Critical Value	0.934	5% Shapiro Wilk Critical Value	0.934
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.575	Mean	-2.753
SD	4.56	SD	1.34
95% DL/2 (t) UCL	1.109	95% H-Stat (DL/2) UCL	0.177
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-5.758
		SD in Log Scale	2.732
		Mean in Original Scale	0.517
		SD in Original Scale	4.566
		95% Percentile Bootstrap UCL	1.131
		95% BCA Bootstrap UCL	1.55

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.297	Data do not follow a Discernable Distribution (0.05)
Theta Star	9.824	
nu star	20.81	
A-D Test Statistic	4.351	
5% A-D Critical Value	0.855	
K-S Test Statistic	0.855	
5% K-S Critical Value	0.161	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.000000001	Mean	0.539
Maximum	60.65	SD	4.552
Mean	3.608	SE of Mean	0.327
Median	0.973	95% KM (t) UCL	1.08
SD	6.752	95% KM (z) UCL	1.078
k star	0.114	95% KM (jackknife) UCL	1.073
Theta star	31.59	95% KM (bootstrap t) UCL	4.79
Nu star	45.45	95% KM (BCA) UCL	1.172
AppChi2	30.99	95% KM (Percentile Bootstrap) UCL	1.151
95% Gamma Approximate UCL	5.292	95% KM (Chebyshev) UCL	1.966
95% Adjusted Gamma UCL	5.307	97.5% KM (Chebyshev) UCL	2.584
		99% KM (Chebyshev) UCL	3.797
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	1.966

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_SVOC_Naphthalene

General Statistics

Number of Valid Data	199	Number of Detected Data	95
Number of Distinct Detected Data	95	Number of Non-Detect Data	104
		Percent Non-Detects	52.26%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0168	Minimum Detected	-4.086
Maximum Detected	51.2	Maximum Detected	3.936
Mean of Detected	0.856	Mean of Detected	-2.213
SD of Detected	5.335	SD of Detected	1.312
Minimum Non-Detect	0.0195	Minimum Non-Detect	-3.937
Maximum Non-Detect	2.1	Maximum Non-Detect	0.742

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	196
Number treated as Detected	3
Single DL Non-Detect Percentage	98.49%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.455	Lilliefors Test Statistic	0.144
5% Lilliefors Critical Value	0.0909	5% Lilliefors Critical Value	0.0909
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.451	Mean	-2.661
SD	3.697	SD	1.227
95% DL/2 (t) UCL	0.884	95% H-Stat (DL/2) UCL	0.181
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	23.86	Mean in Log Scale	-3.075
SD	20.55	SD in Log Scale	1.355
95% MLE (t) UCL	26.27	Mean in Original Scale	0.424
95% MLE (Tiku) UCL	42.31	SD in Original Scale	3.699
		95% Percentile Bootstrap UCL	0.928
		95% BCA Bootstrap UCL	1.424

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.327	Data do not follow a Discernable Distribution (0.05)
Theta Star	2.623	
nu star	62.04	
A-D Test Statistic	17.55	
5% A-D Critical Value	0.86	
K-S Test Statistic	0.86	
5% K-S Critical Value	0.0993	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.000000001	Mean	0.429
Maximum	51.2	SD	3.689
Mean	0.904	SE of Mean	0.263
Median	0.106	95% KM (t) UCL	0.864
SD	3.852	95% KM (z) UCL	0.862
k star	0.141	95% KM (jackknife) UCL	0.863
Theta star	6.418	95% KM (bootstrap t) UCL	2.62
Nu star	56.08	95% KM (BCA) UCL	0.954
AppChi2	39.87	95% KM (Percentile Bootstrap) UCL	0.937
95% Gamma Approximate UCL	1.272	95% KM (Chebyshev) UCL	1.575
95% Adjusted Gamma UCL	1.275	97.5% KM (Chebyshev) UCL	2.071
		99% KM (Chebyshev) UCL	3.045
		Potential UCLs to Use	
		95% KM (BCA) UCL	0.954

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_VOC_Benzene

General Statistics

Number of Valid Data	199	Number of Detected Data	52
Number of Distinct Detected Data	44	Number of Non-Detect Data	147
		Percent Non-Detects	73.87%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0006575	Minimum Detected	-7.327
Maximum Detected	18.9	Maximum Detected	2.939
Mean of Detected	0.389	Mean of Detected	-5.226
SD of Detected	2.619	SD of Detected	1.866
Minimum Non-Detect	0.00067	Minimum Non-Detect	-7.308
Maximum Non-Detect	0.24	Maximum Non-Detect	-1.427

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	197
Number treated as Detected	2
Single DL Non-Detect Percentage	98.99%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.493	Lilliefors Test Statistic	0.22
5% Lilliefors Critical Value	0.123	5% Lilliefors Critical Value	0.123
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.108	Mean	-5.927
SD	1.34	SD	1.68
95% DL/2 (t) UCL	0.265	95% H-Stat (DL/2) UCL	0.0159
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-7.793
		SD in Log Scale	2.084
		Mean in Original Scale	0.102
		SD in Original Scale	1.34
		95% Percentile Bootstrap UCL	0.291
		95% BCA Bootstrap UCL	0.482

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.178	Data do not follow a Discernable Distribution (0.05)
Theta Star	2.184	
nu star	18.52	
A-D Test Statistic	12.82	
5% A-D Critical Value	0.925	
K-S Test Statistic	0.925	
5% K-S Critical Value	0.137	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.0006575	Mean	0.103
Maximum	18.9	SD	1.337
Mean	0.416	SE of Mean	0.0957
Median	0.362	95% KM (t) UCL	0.261
SD	1.335	95% KM (z) UCL	0.26
k star	0.542	95% KM (jackknife) UCL	0.259
Theta star	0.767	95% KM (bootstrap t) UCL	8.455
Nu star	215.9	95% KM (BCA) UCL	0.293
AppChi2	182.9	95% KM (Percentile Bootstrap) UCL	0.292
95% Gamma Approximate UCL	0.491	95% KM (Chebyshev) UCL	0.52
95% Adjusted Gamma UCL	0.492	97.5% KM (Chebyshev) UCL	0.7
		99% KM (Chebyshev) UCL	1.055
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	0.52

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_VOC_Chloroform

General Statistics

Number of Valid Data	199	Number of Detected Data	57
Number of Distinct Detected Data	52	Number of Non-Detect Data	142
		Percent Non-Detects	71.36%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.00092	Minimum Detected	-6.991
Maximum Detected	7.22	Maximum Detected	1.977
Mean of Detected	0.267	Mean of Detected	-4.178
SD of Detected	1.035	SD of Detected	2.22
Minimum Non-Detect	0.0034	Minimum Non-Detect	-5.684
Maximum Non-Detect	0.52	Maximum Non-Detect	-0.654

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	192
Number treated as Detected	7
Single DL Non-Detect Percentage	96.48%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.403	Lilliefors Test Statistic	0.116
5% Lilliefors Critical Value	0.117	5% Lilliefors Critical Value	0.117
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0828	Mean	-4.974
SD	0.563	SD	1.478
95% DL/2 (t) UCL	0.149	95% H-Stat (DL/2) UCL	0.0264
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-5.506
		SD in Log Scale	1.607
		Mean in Original Scale	0.0788
		SD in Original Scale	0.563
		95% Percentile Bootstrap UCL	0.154
		95% BCA Bootstrap UCL	0.212

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.247	Data appear Lognormal at 5% Significance Level
Theta Star	1.08	
nu star	28.2	
A-D Test Statistic	6.051	
5% A-D Critical Value	0.887	
K-S Test Statistic	0.887	
5% K-S Critical Value	0.129	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.00092	Mean	0.0785
Maximum	7.22	SD	0.562
Mean	0.268	SE of Mean	0.0402
Median	0.269	95% KM (t) UCL	0.145
SD	0.55	95% KM (z) UCL	0.145
k star	0.726	95% KM (jackknife) UCL	0.144
Theta star	0.369	95% KM (bootstrap t) UCL	0.35
Nu star	288.8	95% KM (BCA) UCL	0.152
AppChi2	250.4	95% KM (Percentile Bootstrap) UCL	0.158
95% Gamma Approximate UCL	0.309	95% KM (Chebyshev) UCL	0.254
95% Adjusted Gamma UCL	0.309	97.5% KM (Chebyshev) UCL	0.329
		99% KM (Chebyshev) UCL	0.478
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	0.329

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_VOC_Tetrachloroethylene (PCE)

General Statistics

Number of Valid Data	199	Number of Detected Data	26
Number of Distinct Detected Data	26	Number of Non-Detect Data	173
		Percent Non-Detects	86.93%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.00079	Minimum Detected	-7.143
Maximum Detected	0.763	Maximum Detected	-0.27
Mean of Detected	0.084	Mean of Detected	-4.27
SD of Detected	0.175	SD of Detected	1.936
Minimum Non-Detect	0.0043	Minimum Non-Detect	-5.449
Maximum Non-Detect	0.52	Maximum Non-Detect	-0.654

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	198
Number treated as Detected	1
Single DL Non-Detect Percentage	99.50%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.545	Shapiro Wilk Test Statistic	0.936
5% Shapiro Wilk Critical Value	0.92	5% Shapiro Wilk Critical Value	0.92
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0231	Mean	-5.059
SD	0.0742	SD	1.262
95% DL/2 (t) UCL	0.0318	95% H-Stat (DL/2) UCL	0.0183
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-6.135
		SD in Log Scale	1.235
		Mean in Original Scale	0.0129
		SD in Original Scale	0.0679
		95% Percentile Bootstrap UCL	0.0214
		95% BCA Bootstrap UCL	0.0238

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.354	Data appear Lognormal at 5% Significance Level
Theta Star	0.237	
nu star	18.42	
A-D Test Statistic	1.902	
5% A-D Critical Value	0.836	
K-S Test Statistic	0.836	
5% K-S Critical Value	0.184	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.00079	Mean	0.0132
Maximum	0.763	SD	0.068
Mean	0.0806	SE of Mean	0.00495
Median	0.0848	95% KM (t) UCL	0.0214
SD	0.0673	95% KM (z) UCL	0.0213
k star	1.595	95% KM (jackknife) UCL	0.0212
Theta star	0.0505	95% KM (bootstrap t) UCL	0.0307
Nu star	634.9	95% KM (BCA) UCL	0.0224
AppChi2	577.5	95% KM (Percentile Bootstrap) UCL	0.0219
95% Gamma Approximate UCL	0.0886	95% KM (Chebyshev) UCL	0.0348
95% Adjusted Gamma UCL	0.0887	97.5% KM (Chebyshev) UCL	0.0441
		99% KM (Chebyshev) UCL	0.0624
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	0.0348

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_VOC_Trichloroethene (TCE)

General Statistics

Number of Valid Data	199	Number of Detected Data	22
Number of Distinct Detected Data	22	Number of Non-Detect Data	177
		Percent Non-Detects	88.94%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.00095	Minimum Detected	-6.959
Maximum Detected	62.26	Maximum Detected	4.131
Mean of Detected	5.037	Mean of Detected	-3.891
SD of Detected	14.63	SD of Detected	3.218
Minimum Non-Detect	0.0034	Minimum Non-Detect	-5.684
Maximum Non-Detect	0.61	Maximum Non-Detect	-0.494

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	196
Number treated as Detected	3
Single DL Non-Detect Percentage	98.49%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.403	Shapiro Wilk Test Statistic	0.743
5% Shapiro Wilk Critical Value	0.911	5% Shapiro Wilk Critical Value	0.911
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.571	Mean	-5.063
SD	5.018	SD	1.516
95% DL/2 (t) UCL	1.159	95% H-Stat (DL/2) UCL	0.0259
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-6.201
		SD in Log Scale	1.637
		Mean in Original Scale	0.559
		SD in Original Scale	5.019
		95% Percentile Bootstrap UCL	1.185
		95% BCA Bootstrap UCL	1.578

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.152	Data do not follow a Discernable Distribution (0.05)
Theta Star	33.16	
nu star	6.685	
A-D Test Statistic	4.458	
5% A-D Critical Value	0.916	
K-S Test Statistic	0.916	
5% K-S Critical Value	0.208	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.00095	Mean	0.559
Maximum	62.26	SD	5.007
Mean	5.037	SE of Mean	0.363
Median	5.036	95% KM (t) UCL	1.159
SD	4.763	95% KM (z) UCL	1.157
k star	0.942	95% KM (jackknife) UCL	1.147
Theta star	5.345	95% KM (bootstrap t) UCL	1.976
Nu star	375.1	95% KM (BCA) UCL	1.246
AppChi2	331.2	95% KM (Percentile Bootstrap) UCL	1.204
95% Gamma Approximate UCL	5.705	95% KM (Chebyshev) UCL	2.143
95% Adjusted Gamma UCL	5.71	97.5% KM (Chebyshev) UCL	2.828
		99% KM (Chebyshev) UCL	4.174
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	2.828

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Surface Soil (0 to 2 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SS_VOC_Vinyl Chloride

General Statistics

Number of Valid Data	199	Number of Detected Data	8
Number of Distinct Detected Data	8	Number of Non-Detect Data	191
		Percent Non-Detects	95.98%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0036	Minimum Detected	-5.627
Maximum Detected	0.0785	Maximum Detected	-2.545
Mean of Detected	0.0279	Mean of Detected	-4.019
SD of Detected	0.0261	SD of Detected	1.067
Minimum Non-Detect	0.0034	Minimum Non-Detect	-5.684
Maximum Non-Detect	0.61	Maximum Non-Detect	-0.494

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	199
Number treated as Detected	0
Single DL Non-Detect Percentage	100.00%

Warning: There are only 8 Detected Values in this data
Note: It should be noted that even though bootstrap may be performed on this data set
the resulting calculations may not be reliable enough to draw conclusions

It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.

UCL Statistics

Normal Distribution Test with Detected Values Only

Shapiro Wilk Test Statistic	0.874
5% Shapiro Wilk Critical Value	0.818

Data appear Normal at 5% Significance Level

Assuming Normal Distribution

DL/2 Substitution Method	
Mean	0.0166
SD	0.046
95% DL/2 (t) UCL	0.0219
Maximum Likelihood Estimate(MLE) Method	N/A

MLE method failed to converge properly

Lognormal Distribution Test with Detected Values Only

Shapiro Wilk Test Statistic	0.971
5% Shapiro Wilk Critical Value	0.818

Data appear Lognormal at 5% Significance Level

Assuming Lognormal Distribution

DL/2 Substitution Method	
Mean	-5.154
SD	1.12
95% H-Stat (DL/2) UCL	0.0128
Log ROS Method	
Mean in Log Scale	-6.887
SD in Log Scale	0.962
Mean in Original Scale	0.00226
SD in Original Scale	0.00725
95% Percentile Bootstrap UCL	0.00315
95% BCA Bootstrap UCL	0.00366

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.881
Theta Star	0.0317
nu star	14.1
A-D Test Statistic	0.192
5% A-D Critical Value	0.732
K-S Test Statistic	0.732
5% K-S Critical Value	0.3

Data appear Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.0036
Maximum	0.0785
Mean	0.0256
Median	0.0258
SD	0.00992
k star	5.791
Theta star	0.00442
Nu star	2305
AppChi2	2194
95% Gamma Approximate UCL	0.0269
95% Adjusted Gamma UCL	0.0269

Note: DL/2 is not a recommended method.

Data Distribution Test with Detected Values Only

Data appear Normal at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.00473
SD	0.00711
SE of Mean	0.00056393
95% KM (t) UCL	0.00566
95% KM (z) UCL	0.00566
95% KM (jackknife) UCL	0.00662
95% KM (bootstrap t) UCL	0.0059
95% KM (BCA) UCL	0.0179
95% KM (Percentile Bootstrap) UCL	0.0101
95% KM (Chebyshev) UCL	0.00719
97.5% KM (Chebyshev) UCL	0.00825
99% KM (Chebyshev) UCL	0.0103

Potential UCLs to Use

95% KM (t) UCL	0.00566
95% KM (Percentile Bootstrap) UCL	0.0101

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Aluminum

General Statistics

Number of Valid Observations	212	Number of Distinct Observations	170

Raw Statistics		Log-transformed Statistics	
Minimum	2040	Minimum of Log Data	7.621
Maximum	27700	Maximum of Log Data	10.23
Mean	11574	Mean of log Data	9.294
Median	11128	SD of log Data	0.368
SD	3969		
Coefficient of Variation	0.343		
Skewness	0.629		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.0565	Lilliefors Test Statistic	0.0638
Lilliefors Critical Value	0.0609	Lilliefors Critical Value	0.0609
Data appear Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	12025	95% H-UCL	12163
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	12957
95% Adjusted-CLT UCL	12035	97.5% Chebyshev (MVUE) UCL	13530
95% Modified-t UCL	12027	99% Chebyshev (MVUE) UCL	14655

Gamma Distribution Test		Data Distribution
k star (bias corrected)	8.067	Data appear Normal at 5% Significance Level
Theta Star	1435	
MLE of Mean	11574	
MLE of Standard Deviation	4075	
nu star	3420	
Approximate Chi Square Value (.05)	3285	**Nonparametric Statistics**
Adjusted Level of Significance	0.0489	95% CLT UCL 12023
Adjusted Chi Square Value	3285	95% Jackknife UCL 12025
		95% Standard Bootstrap UCL 12030
Anderson-Darling Test Statistic	0.612	95% Bootstrap-t UCL 12039
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL 12032
Kolmogorov-Smirnov Test Statistic	0.0483	95% Percentile Bootstrap UCL 12034
Kolmogorov-Smirnov 5% Critical Value	0.0623	95% BCA Bootstrap UCL 12007
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 12763
		97.5% Chebyshev(Mean, Sd) UCL 13277
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 14287
95% Approximate Gamma UCL	12050	
95% Adjusted Gamma UCL	12053	

Potential UCL to Use	Use 95% Student's-t UCL 12025

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Antimony

General Statistics

Number of Valid Data	215	Number of Detected Data	50
Number of Distinct Detected Data	49	Number of Non-Detect Data	165
		Percent Non-Detects	76.74%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.725	Minimum Detected	-0.322
Maximum Detected	197.5	Maximum Detected	5.286
Mean of Detected	32.51	Mean of Detected	1.974
SD of Detected	57.75	SD of Detected	1.717
Minimum Non-Detect	0.555	Minimum Non-Detect	-0.589
Maximum Non-Detect	5.7	Maximum Non-Detect	1.74

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	193
Number treated as Detected	22
Single DL Non-Detect Percentage	89.77%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.588	Shapiro Wilk Test Statistic	0.877
5% Shapiro Wilk Critical Value	0.947	5% Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	8.147	Mean	0.183
SD	30.73	SD	1.328
95% DL/2 (t) UCL	11.61	95% H-Stat (DL/2) UCL	3.62
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-1.03
		SD in Log Scale	2.287
		Mean in Original Scale	7.821
		SD in Original Scale	30.81
		95% Percentile Bootstrap UCL	11.41
		95% BCA Bootstrap UCL	12.09

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.419	Data do not follow a Discernable Distribution (0.05)
Theta Star	77.64	
nu star	41.87	
A-D Test Statistic	4.269	
5% A-D Critical Value	0.831	
K-S Test Statistic	0.831	
5% K-S Critical Value	0.134	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	8.211
Maximum	197.5	SD	30.64
Mean	38.32	SE of Mean	2.111
Median	20.82	95% KM (t) UCL	11.7
SD	46.12	95% KM (z) UCL	11.68
k star	0.16	95% KM (jackknife) UCL	11.65
Theta star	239	95% KM (bootstrap t) UCL	12.66
Nu star	68.94	95% KM (BCA) UCL	11.86
AppChi2	50.82	95% KM (Percentile Bootstrap) UCL	11.8
95% Gamma Approximate UCL	51.97	95% KM (Chebyshev) UCL	17.41
95% Adjusted Gamma UCL	52.08	97.5% KM (Chebyshev) UCL	21.4
		99% KM (Chebyshev) UCL	29.22
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	17.41

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Arsenic

General Statistics

Number of Valid Data	215	Number of Detected Data	213
Number of Distinct Detected Data	168	Number of Non-Detect Data	2
		Percent Non-Detects	0.93%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	1.05	Minimum Detected	0.0488
Maximum Detected	390.9	Maximum Detected	5.968
Mean of Detected	25.59	Mean of Detected	2.404
SD of Detected	53	SD of Detected	1.117
Minimum Non-Detect	2.1	Minimum Non-Detect	0.742
Maximum Non-Detect	2.4	Maximum Non-Detect	0.875

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	9
Number treated as Detected	206
Single DL Non-Detect Percentage	4.19%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.322	Lilliefors Test Statistic	0.106
5% Lilliefors Critical Value	0.0607	5% Lilliefors Critical Value	0.0607
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	25.36	Mean	2.382
SD	52.81	SD	1.133
95% DL/2 (t) UCL	31.31	95% H-Stat (DL/2) UCL	24.53
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	23.88	Mean in Log Scale	2.382
SD	54.14	SD in Log Scale	1.134
95% MLE (t) UCL	29.98	Mean in Original Scale	25.36
95% MLE (Tiku) UCL	29.38	SD in Original Scale	52.81
		95% Percentile Bootstrap UCL	31.24
		95% BCA Bootstrap UCL	32.4

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.711	Data do not follow a Discernable Distribution (0.05)
Theta Star	35.98	
nu star	302.9	
A-D Test Statistic	15.67	
5% A-D Critical Value	0.799	
K-S Test Statistic	0.799	
5% K-S Critical Value	0.0648	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	25.37
Maximum	390.9	SD	52.68
Mean	25.35	SE of Mean	3.601
Median	8.9	95% KM (t) UCL	31.32
SD	52.81	95% KM (z) UCL	31.29
k star	0.588	95% KM (jackknife) UCL	31.32
Theta star	43.15	95% KM (bootstrap t) UCL	32.83
Nu star	252.6	95% KM (BCA) UCL	31.43
AppChi2	216.8	95% KM (Percentile Bootstrap) UCL	31.5
95% Gamma Approximate UCL	29.54	95% KM (Chebyshev) UCL	41.06
95% Adjusted Gamma UCL	29.57	97.5% KM (Chebyshev) UCL	47.86
		99% KM (Chebyshev) UCL	61.2
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	41.06

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Barium

General Statistics

Number of Valid Data	209	Number of Detected Data	207
Number of Distinct Detected Data	204	Number of Non-Detect Data	2
		Percent Non-Detects	0.96%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	41.1	Minimum Detected	3.716
Maximum Detected	10500	Maximum Detected	9.259
Mean of Detected	1239	Mean of Detected	6.137
SD of Detected	1890	SD of Detected	1.413
Minimum Non-Detect	21	Minimum Non-Detect	3.045
Maximum Non-Detect	26	Maximum Non-Detect	3.258

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	2
Number treated as Detected	207
Single DL Non-Detect Percentage	0.96%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.263	Lilliefors Test Statistic	0.0927
5% Lilliefors Critical Value	0.0616	5% Lilliefors Critical Value	0.0616
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1227	Mean	6.101
SD	1884	SD	1.451
95% DL/2 (t) UCL	1443	95% H-Stat (DL/2) UCL	1657
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	1216	Mean in Log Scale	6.1
SD	1892	SD in Log Scale	1.454
95% MLE (t) UCL	1433	Mean in Original Scale	1227
95% MLE (Tiku) UCL	1412	SD in Original Scale	1884
		95% Percentile Bootstrap UCL	1450
		95% BCA Bootstrap UCL	1478

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.618	Data do not follow a Discernable Distribution (0.05)
Theta Star	2006	
nu star	255.7	
A-D Test Statistic	8.292	
5% A-D Critical Value	0.809	
K-S Test Statistic	0.809	
5% K-S Critical Value	0.0659	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	1228
Maximum	10500	SD	1880
Mean	1227	SE of Mean	130.3
Median	334.5	95% KM (t) UCL	1443
SD	1884	95% KM (z) UCL	1442
k star	0.509	95% KM (jackknife) UCL	1443
Theta star	2411	95% KM (bootstrap t) UCL	1456
Nu star	212.8	95% KM (BCA) UCL	1441
AppChi2	180	95% KM (Percentile Bootstrap) UCL	1454
95% Gamma Approximate UCL	1451	95% KM (Chebyshev) UCL	1796
95% Adjusted Gamma UCL	1452	97.5% KM (Chebyshev) UCL	2042
		99% KM (Chebyshev) UCL	2524
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	1796

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Beryllium

General Statistics

Number of Valid Data	215	Number of Detected Data	122
Number of Distinct Detected Data	92	Number of Non-Detect Data	93
		Percent Non-Detects	43.26%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.43	Minimum Detected	-0.844
Maximum Detected	27.2	Maximum Detected	3.303
Mean of Detected	3.116	Mean of Detected	0.303
SD of Detected	5.618	SD of Detected	1.103
Minimum Non-Detect	0.011	Minimum Non-Detect	-4.51
Maximum Non-Detect	2.3	Maximum Non-Detect	0.833

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	186
Number treated as Detected	29
Single DL Non-Detect Percentage	86.51%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.342	Lilliefors Test Statistic	0.2
5% Lilliefors Critical Value	0.0802	5% Lilliefors Critical Value	0.0802
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.905	Mean	-0.355
SD	4.448	SD	1.165
95% DL/2 (t) UCL	2.407	95% H-Stat (DL/2) UCL	1.659
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-0.365
		SD in Log Scale	1.179
		Mean in Original Scale	1.908
		SD in Original Scale	4.447
		95% Percentile Bootstrap UCL	2.4
		95% BCA Bootstrap UCL	2.51

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.71	Data do not follow a Discernable Distribution (0.05)
Theta Star	4.391	
nu star	173.1	
A-D Test Statistic	13.65	
5% A-D Critical Value	0.798	
K-S Test Statistic	0.798	
5% K-S Critical Value	0.0872	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.412	Mean	1.982
Maximum	27.2	SD	4.411
Mean	2.878	SE of Mean	0.302
Median	1.475	95% KM (t) UCL	2.481
SD	4.308	95% KM (z) UCL	2.479
k star	1.052	95% KM (jackknife) UCL	2.479
Theta star	2.735	95% KM (bootstrap t) UCL	2.585
Nu star	452.4	95% KM (BCA) UCL	2.52
AppChi2	404.1	95% KM (Percentile Bootstrap) UCL	2.512
95% Gamma Approximate UCL	3.222	95% KM (Chebyshev) UCL	3.298
95% Adjusted Gamma UCL	3.224	97.5% KM (Chebyshev) UCL	3.868
		99% KM (Chebyshev) UCL	4.987
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	3.298

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Cadmium

General Statistics

Number of Valid Data	215	Number of Detected Data	154
Number of Distinct Detected Data	115	Number of Non-Detect Data	61
		Percent Non-Detects	28.37%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.422	Minimum Detected	-0.864
Maximum Detected	87.5	Maximum Detected	4.472
Mean of Detected	3.43	Mean of Detected	0.542
SD of Detected	7.995	SD of Detected	1.006
Minimum Non-Detect	0.056	Minimum Non-Detect	-2.882
Maximum Non-Detect	13.25	Maximum Non-Detect	2.584

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	209
Number treated as Detected	6
Single DL Non-Detect Percentage	97.21%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.353	Lilliefors Test Statistic	0.107
5% Lilliefors Critical Value	0.0714	5% Lilliefors Critical Value	0.0714
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	2.61	Mean	0.0712
SD	6.909	SD	1.205
95% DL/2 (t) UCL	3.389	95% H-Stat (DL/2) UCL	2.688
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	0.078
		SD in Log Scale	1.156
		Mean in Original Scale	2.563
		SD in Original Scale	6.901
		95% Percentile Bootstrap UCL	3.432
		95% BCA Bootstrap UCL	3.736

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.84	Data do not follow a Discernable Distribution (0.05)	
Theta Star	4.083		
nu star	258.7		
A-D Test Statistic	8.474	**Nonparametric Statistics**	
5% A-D Critical Value	0.791	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.791	Mean	2.611
5% K-S Critical Value	0.0782	SD	6.874
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.471
		95% KM (t) UCL	3.388
Assuming Gamma Distribution		95% KM (z) UCL	3.385
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	3.387
Minimum	1E-09	95% KM (bootstrap t) UCL	4.174
Maximum	87.5	95% KM (BCA) UCL	3.518
Mean	2.653	95% KM (Percentile Bootstrap) UCL	3.427
Median	1.077	95% KM (Chebyshev) UCL	4.662
SD	6.904	97.5% KM (Chebyshev) UCL	5.549
k star	0.218	99% KM (Chebyshev) UCL	7.293
Theta star	12.17		
Nu star	93.75	Potential UCLs to Use	
AppChi2	72.42	95% KM (Chebyshev) UCL	4.662
95% Gamma Approximate UCL	3.435		
95% Adjusted Gamma UCL	3.441		

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Chromium, Hexavalent

General Statistics

Number of Valid Data	24	Number of Detected Data	9
Number of Distinct Detected Data	9	Number of Non-Detect Data	15
		Percent Non-Detects	62.50%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.9	Minimum Detected	-0.105
Maximum Detected	7.3	Maximum Detected	1.988
Mean of Detected	2.872	Mean of Detected	0.854
SD of Detected	1.988	SD of Detected	0.676
Minimum Non-Detect	0.26	Minimum Non-Detect	-1.347
Maximum Non-Detect	1.3	Maximum Non-Detect	0.262

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	17
Number treated as Detected	7
Single DL Non-Detect Percentage	70.83%

Warning: There are only 9 Detected Values in this data
Note: It should be noted that even though bootstrap may be performed on this data set
the resulting calculations may not be reliable enough to draw conclusions

It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.86	Shapiro Wilk Test Statistic	0.96
5% Shapiro Wilk Critical Value	0.829	5% Shapiro Wilk Critical Value	0.829
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.425	Mean	-0.0761
SD	1.642	SD	0.892
95% DL/2 (t) UCL	2	95% H-Stat (DL/2) UCL	2.156
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-0.192
		SD in Log Scale	1.018
		Mean in Original Scale	1.393
		SD in Original Scale	1.669
		95% Percentile Bootstrap UCL	1.984
		95% BCA Bootstrap UCL	2.12

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	1.836	Data appear Normal at 5% Significance Level	
Theta Star	1.564		
nu star	33.05		
A-D Test Statistic	0.279	**Nonparametric Statistics**	
5% A-D Critical Value	0.728	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.728	Mean	1.647
5% K-S Critical Value	0.282	SD	1.49
Data appear Gamma Distributed at 5% Significance Level		SE of Mean	0.323
		95% KM (t) UCL	2.2
Assuming Gamma Distribution		95% KM (z) UCL	2.178
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	2.119
Minimum	0.604	95% KM (bootstrap t) UCL	2.501
Maximum	7.3	95% KM (BCA) UCL	2.485
Mean	2.762	95% KM (Percentile Bootstrap) UCL	2.417
Median	2.865	95% KM (Chebyshev) UCL	3.054
SD	1.518	97.5% KM (Chebyshev) UCL	3.662
k star	2.915	99% KM (Chebyshev) UCL	4.858
Theta star	0.948		
Nu star	139.9	Potential UCLs to Use	
AppChi2	113.6	95% KM (t) UCL	2.2
95% Gamma Approximate UCL	3.402	95% KM (Percentile Bootstrap) UCL	2.417
95% Adjusted Gamma UCL	3.453		

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Cobalt

General Statistics

Number of Valid Data	215	Number of Detected Data	204
Number of Distinct Detected Data	163	Number of Non-Detect Data	11
		Percent Non-Detects	5.12%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	5.125	Minimum Detected	1.634
Maximum Detected	960.5	Maximum Detected	6.867
Mean of Detected	42.99	Mean of Detected	2.825
SD of Detected	119.3	SD of Detected	0.962
Minimum Non-Detect	5.4	Minimum Non-Detect	1.686
Maximum Non-Detect	9	Maximum Non-Detect	2.197

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	47
Number treated as Detected	168
Single DL Non-Detect Percentage	21.86%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.439	Lilliefors Test Statistic	0.212
5% Lilliefors Critical Value	0.062	5% Lilliefors Critical Value	0.062
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	40.95	Mean	2.738
SD	116.6	SD	1.01
95% DL/2 (t) UCL	54.09	95% H-Stat (DL/2) UCL	29.88
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	18.76	Mean in Log Scale	2.736
SD	134.9	SD in Log Scale	1.015
95% MLE (t) UCL	33.96	Mean in Original Scale	40.95
95% MLE (Tiku) UCL	33.72	SD in Original Scale	116.6
		95% Percentile Bootstrap UCL	54.4
		95% BCA Bootstrap UCL	58.32

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.646	Data do not follow a Discernable Distribution (0.05)
Theta Star	66.57	
nu star	263.5	
A-D Test Statistic	36.87	
5% A-D Critical Value	0.806	
K-S Test Statistic	0.806	
5% K-S Critical Value	0.0662	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	41.08
Maximum	960.5	SD	116.2
Mean	40.79	SE of Mean	7.947
Median	13.05	95% KM (t) UCL	54.21
SD	116.6	95% KM (z) UCL	54.15
k star	0.324	95% KM (jackknife) UCL	54.21
Theta star	125.8	95% KM (bootstrap t) UCL	58.85
Nu star	139.5	95% KM (BCA) UCL	55.52
AppChi2	113.2	95% KM (Percentile Bootstrap) UCL	55.86
95% Gamma Approximate UCL	50.27	95% KM (Chebyshev) UCL	75.72
95% Adjusted Gamma UCL	50.34	97.5% KM (Chebyshev) UCL	90.71
		99% KM (Chebyshev) UCL	120.2
		Potential UCLs to Use	
		95% KM (BCA) UCL	55.52

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Copper

General Statistics

Number of Valid Observations	208	Number of Distinct Observations	196

Raw Statistics		Log-transformed Statistics	
Minimum	5.6	Minimum of Log Data	1.723
Maximum	18000	Maximum of Log Data	9.798
Mean	706.4	Mean of log Data	5.085
Median	125	SD of log Data	1.464
SD	2031		
Coefficient of Variation	2.875		
Skewness	5.103		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.392	Lilliefors Test Statistic	0.119
Lilliefors Critical Value	0.0614	Lilliefors Critical Value	0.0614
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	939.1	95% H-UCL	612.9
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	756.8
95% Adjusted-CLT UCL	991.3	97.5% Chebyshev (MVUE) UCL	882.4
95% Modified-t UCL	947.4	99% Chebyshev (MVUE) UCL	1129

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.436	Data do not follow a Discernable Distribution (0.05)
Theta Star	1619	
MLE of Mean	706.4	
MLE of Standard Deviation	1069	
nu star	181.5	
Approximate Chi Square Value (.05)	151.3	**Nonparametric Statistics**
Adjusted Level of Significance	0.0488	95% CLT UCL 938.1
Adjusted Chi Square Value	151.1	95% Jackknife UCL 939.1
		95% Standard Bootstrap UCL 938.7
Anderson-Darling Test Statistic	21.81	95% Bootstrap-t UCL 1032
Anderson-Darling 5% Critical Value	0.836	95% Hall's Bootstrap UCL 1020
Kolmogorov-Smirnov Test Statistic	0.255	95% Percentile Bootstrap UCL 958.3
Kolmogorov-Smirnov 5% Critical Value	0.0669	95% BCA Bootstrap UCL 1028
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 1320
		97.5% Chebyshev(Mean, Sd) UCL 1586
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 2108
95% Approximate Gamma UCL	847.2	
95% Adjusted Gamma UCL	848.3	
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL 1586

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Iron

General Statistics

Number of Valid Observations	215	Number of Distinct Observations	191

Raw Statistics		Log-transformed Statistics	
Minimum	4460	Minimum of Log Data	8.403
Maximum	374000	Maximum of Log Data	12.83
Mean	45182	Mean of log Data	10.42
Median	29400	SD of log Data	0.701
SD	48523		
Coefficient of Variation	1.074		
Skewness	3.631		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.26	Lilliefors Test Statistic	0.117
Lilliefors Critical Value	0.0604	Lilliefors Critical Value	0.0604
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	50649	95% H-UCL	46886
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	52585
95% Adjusted-CLT UCL	51501	97.5% Chebyshev (MVUE) UCL	56864
95% Modified-t UCL	50785	99% Chebyshev (MVUE) UCL	65268

Gamma Distribution Test		Data Distribution
k star (bias corrected)	1.788	Data do not follow a Discernable Distribution (0.05)
Theta Star	25274	
MLE of Mean	45182	
MLE of Standard Deviation	33792	
nu star	768.7	
Approximate Chi Square Value (.05)	705.4	**Nonparametric Statistics**
Adjusted Level of Significance	0.0489	95% CLT UCL 50625
Adjusted Chi Square Value	705	95% Jackknife UCL 50649
		95% Standard Bootstrap UCL 50553
Anderson-Darling Test Statistic	10.84	95% Bootstrap-t UCL 52032
Anderson-Darling 5% Critical Value	0.768	95% Hall's Bootstrap UCL 51819
Kolmogorov-Smirnov Test Statistic	0.176	95% Percentile Bootstrap UCL 50857
Kolmogorov-Smirnov 5% Critical Value	0.0629	95% BCA Bootstrap UCL 51628
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 59607
		97.5% Chebyshev(Mean, Sd) UCL 65848
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 78109
95% Approximate Gamma UCL	49239	
95% Adjusted Gamma UCL	49267	
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL 59607

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Lead

General Statistics

Number of Valid Observations	215	Number of Distinct Observations	203

Raw Statistics		Log-transformed Statistics	
Minimum	3.2	Minimum of Log Data	1.163
Maximum	15450	Maximum of Log Data	9.645
Mean	580.9	Mean of log Data	4.602
Median	76.9	SD of log Data	1.499
SD	1943		
Coefficient of Variation	3.345		
Skewness	4.954		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.433	Lilliefors Test Statistic	0.136
Lilliefors Critical Value	0.0604	Lilliefors Critical Value	0.0604
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	799.8	95% H-UCL	400.9
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	495.6
95% Adjusted-CLT UCL	846.7	97.5% Chebyshev (MVUE) UCL	578.8
95% Modified-t UCL	807.3	99% Chebyshev (MVUE) UCL	742.2

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.375	Data do not follow a Discernable Distribution (0.05)
Theta Star	1550	
MLE of Mean	580.9	
MLE of Standard Deviation	948.8	
nu star	161.2	
Approximate Chi Square Value (.05)	132.8	**Nonparametric Statistics**
Adjusted Level of Significance	0.0489	95% CLT UCL 798.9
Adjusted Chi Square Value	132.7	95% Jackknife UCL 799.8
		95% Standard Bootstrap UCL 796.7
Anderson-Darling Test Statistic	29.44	95% Bootstrap-t UCL 869.3
Anderson-Darling 5% Critical Value	0.851	95% Hall's Bootstrap UCL 862.8
Kolmogorov-Smirnov Test Statistic	0.294	95% Percentile Bootstrap UCL 811.8
Kolmogorov-Smirnov 5% Critical Value	0.0666	95% BCA Bootstrap UCL 860.6
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 1159
		97.5% Chebyshev(Mean, Sd) UCL 1408
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 1899
95% Approximate Gamma UCL	704.9	
95% Adjusted Gamma UCL	705.8	

Potential UCL to Use	Use 97.5% Chebyshev (Mean, Sd) UCL 1408

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Manganese

General Statistics

Number of Valid Observations	215	Number of Distinct Observations	200

Raw Statistics		Log-transformed Statistics	
Minimum	17.4	Minimum of Log Data	2.856
Maximum	4810	Maximum of Log Data	8.478
Mean	538.5	Mean of log Data	5.96
Median	379.3	SD of log Data	0.794
SD	595.3		
Coefficient of Variation	1.106		
Skewness	4.232		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.264	Lilliefors Test Statistic	0.106
Lilliefors Critical Value	0.0604	Lilliefors Critical Value	0.0604
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	605.5	95% H-UCL	591.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	673
95% Adjusted-CLT UCL	617.8	97.5% Chebyshev (MVUE) UCL	734.7
95% Modified-t UCL	607.5	99% Chebyshev (MVUE) UCL	856

Gamma Distribution Test		Data Distribution
k star (bias corrected)	1.647	Data do not follow a Discernable Distribution (0.05)
Theta Star	327	
MLE of Mean	538.5	
MLE of Standard Deviation	419.6	
nu star	708.1	
Approximate Chi Square Value (.05)	647.4	**Nonparametric Statistics**
Adjusted Level of Significance	0.0489	95% CLT UCL 605.2
Adjusted Chi Square Value	647	95% Jackknife UCL 605.5
		95% Standard Bootstrap UCL 605
Anderson-Darling Test Statistic	7.227	95% Bootstrap-t UCL 624.6
Anderson-Darling 5% Critical Value	0.77	95% Hall's Bootstrap UCL 631.6
Kolmogorov-Smirnov Test Statistic	0.164	95% Percentile Bootstrap UCL 606.6
Kolmogorov-Smirnov 5% Critical Value	0.063	95% BCA Bootstrap UCL 623.9
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 715.4
		97.5% Chebyshev(Mean, Sd) UCL 792
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 942.4
95% Approximate Gamma UCL	589	
95% Adjusted Gamma UCL	589.3	

Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL 715.4

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Mercury

General Statistics

Number of Valid Observations	219	Number of Distinct Observations	214

Raw Statistics		Log-transformed Statistics	
Minimum	0.0455	Minimum of Log Data	-3.09
Maximum	7870	Maximum of Log Data	8.971
Mean	425.1	Mean of log Data	4.106
Median	76.9	SD of log Data	2.298
SD	1056		
Coefficient of Variation	2.485		
Skewness	4.498		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.344	Lilliefors Test Statistic	0.0665
Lilliefors Critical Value	0.0599	Lilliefors Critical Value	0.0599
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	543	95% H-UCL	1470
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1806
95% Adjusted-CLT UCL	565.7	97.5% Chebyshev (MVUE) UCL	2235
95% Modified-t UCL	546.6	99% Chebyshev (MVUE) UCL	3076

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.344	Data do not follow a Discernable Distribution (0.05)
Theta Star	1234	
MLE of Mean	425.1	
MLE of Standard Deviation	724.3	
nu star	150.9	
Approximate Chi Square Value (.05)	123.5	**Nonparametric Statistics**
Adjusted Level of Significance	0.0489	95% CLT UCL 542.5
Adjusted Chi Square Value	123.3	95% Jackknife UCL 543
		95% Standard Bootstrap UCL 540.3
Anderson-Darling Test Statistic	5.128	95% Bootstrap-t UCL 586.4
Anderson-Darling 5% Critical Value	0.858	95% Hall's Bootstrap UCL 564
Kolmogorov-Smirnov Test Statistic	0.13	95% Percentile Bootstrap UCL 552.3
Kolmogorov-Smirnov 5% Critical Value	0.0663	95% BCA Bootstrap UCL 561
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 736.3
		97.5% Chebyshev(Mean, Sd) UCL 870.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 1135
95% Approximate Gamma UCL	519.4	
95% Adjusted Gamma UCL	520.1	
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL 1135

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Nickel

General Statistics

Number of Valid Data	215	Number of Detected Data	213
Number of Distinct Detected Data	194	Number of Non-Detect Data	2
		Percent Non-Detects	0.93%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	4.125	Minimum Detected	1.417
Maximum Detected	1310	Maximum Detected	7.178
Mean of Detected	82.81	Mean of Detected	3.687
SD of Detected	167	SD of Detected	0.998
Minimum Non-Detect	4.3	Minimum Non-Detect	1.459
Maximum Non-Detect	5.2	Maximum Non-Detect	1.649

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	3
Number treated as Detected	212
Single DL Non-Detect Percentage	1.40%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.338	Lilliefors Test Statistic	0.146
5% Lilliefors Critical Value	0.0607	5% Lilliefors Critical Value	0.0607
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	82.07	Mean	3.661
SD	166.4	SD	1.03
95% DL/2 (t) UCL	100.8	95% H-Stat (DL/2) UCL	77.04
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	80.57	Mean in Log Scale	3.665
SD	167.6	SD in Log Scale	1.021
95% MLE (t) UCL	99.44	Mean in Original Scale	82.08
95% MLE (Tiku) UCL	97.42	SD in Original Scale	166.4
		95% Percentile Bootstrap UCL	102.1
		95% BCA Bootstrap UCL	104.5

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.804	Data do not follow a Discernable Distribution (0.05)
Theta Star	103	
nu star	342.5	
A-D Test Statistic	20.58	
5% A-D Critical Value	0.793	
K-S Test Statistic	0.793	
5% K-S Critical Value	0.0645	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	82.08
Maximum	1310	SD	166
Mean	82.04	SE of Mean	11.35
Median	30.15	95% KM (t) UCL	100.8
SD	166.4	95% KM (z) UCL	100.8
k star	0.64	95% KM (jackknife) UCL	100.8
Theta star	128.3	95% KM (bootstrap t) UCL	105.9
Nu star	275.1	95% KM (BCA) UCL	101.6
AppChi2	237.7	95% KM (Percentile Bootstrap) UCL	101.7
95% Gamma Approximate UCL	94.96	95% KM (Chebyshev) UCL	131.6
95% Adjusted Gamma UCL	95.05	97.5% KM (Chebyshev) UCL	153
		99% KM (Chebyshev) UCL	195
		Potential UCLs to Use	
		95% KM (BCA) UCL	101.6

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Silver

General Statistics

Number of Valid Data	215	Number of Detected Data	53
Number of Distinct Detected Data	43	Number of Non-Detect Data	162
		Percent Non-Detects	75.35%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.875	Minimum Detected	-0.134
Maximum Detected	53.2	Maximum Detected	3.974
Mean of Detected	3.409	Mean of Detected	0.752
SD of Detected	7.388	SD of Detected	0.708
Minimum Non-Detect	0.0785	Minimum Non-Detect	-2.545
Maximum Non-Detect	4.6	Maximum Non-Detect	1.526

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	211
Number treated as Detected	4
Single DL Non-Detect Percentage	98.14%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.393	Lilliefors Test Statistic	0.161
5% Lilliefors Critical Value	0.122	5% Lilliefors Critical Value	0.122
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.291	Mean	-0.231
SD	3.842	SD	0.725
95% DL/2 (t) UCL	1.724	95% H-Stat (DL/2) UCL	1.136
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-0.839
		SD in Log Scale	1.215
		Mean in Original Scale	1.099
		SD in Original Scale	3.881
		95% Percentile Bootstrap UCL	1.593
		95% BCA Bootstrap UCL	1.927

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	1.139	Data do not follow a Discernable Distribution (0.05)	
Theta Star	2.994		
nu star	120.7		
A-D Test Statistic	6.847	**Nonparametric Statistics**	
5% A-D Critical Value	0.775	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.775	Mean	1.519
5% K-S Critical Value	0.125	SD	3.792
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.261
		95% KM (t) UCL	1.951
Assuming Gamma Distribution		95% KM (z) UCL	1.949
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	1.882
Minimum	1E-09	95% KM (bootstrap t) UCL	2.997
Maximum	53.2	95% KM (BCA) UCL	2.251
Mean	4.346	95% KM (Percentile Bootstrap) UCL	2.098
Median	3.688	95% KM (Chebyshev) UCL	2.658
SD	4.301	97.5% KM (Chebyshev) UCL	3.151
k star	0.937	99% KM (Chebyshev) UCL	4.119
Theta star	4.637		
Nu star	403	Potential UCLs to Use	
AppChi2	357.5	95% KM (t) UCL	1.951
95% Gamma Approximate UCL	4.899	95% KM (% Bootstrap) UCL	2.098
95% Adjusted Gamma UCL	4.903		

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Vanadium

General Statistics

Number of Valid Data	215	Number of Detected Data	213
Number of Distinct Detected Data	182	Number of Non-Detect Data	2
		Percent Non-Detects	0.93%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	11	Minimum Detected	2.398
Maximum Detected	126	Maximum Detected	4.836
Mean of Detected	42.95	Mean of Detected	3.682
SD of Detected	17.46	SD of Detected	0.4
Minimum Non-Detect	27	Minimum Non-Detect	3.296
Maximum Non-Detect	132.5	Maximum Non-Detect	4.887

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	215
Number treated as Detected	0
Single DL Non-Detect Percentage	100.00%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.0905	Lilliefors Test Statistic	0.0398
5% Lilliefors Critical Value	0.0607	5% Lilliefors Critical Value	0.0607
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	42.92	Mean	3.679
SD	17.57	SD	0.407
95% DL/2 (t) UCL	44.9	95% H-Stat (DL/2) UCL	45.2
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	3.679
		SD in Log Scale	0.4
		Mean in Original Scale	42.84
		SD in Original Scale	17.44
		95% Percentile Bootstrap UCL	44.75
		95% BCA Bootstrap UCL	45.07

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	6.492	Data appear Gamma Distributed at 5% Significance Level
Theta Star	6.616	
nu star	2765	
A-D Test Statistic	0.29	
5% A-D Critical Value	0.755	
K-S Test Statistic	0.755	
5% K-S Critical Value	0.0622	
Data appear Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	11	Mean	42.85
Maximum	126	SD	17.44
Mean	42.85	SE of Mean	1.195
Median	40.45	95% KM (t) UCL	44.82
SD	17.45	95% KM (z) UCL	44.81
k star	6.46	95% KM (jackknife) UCL	44.82
Theta star	6.634	95% KM (bootstrap t) UCL	44.91
Nu star	2778	95% KM (BCA) UCL	44.84
AppChi2	2656	95% KM (Percentile Bootstrap) UCL	44.92
95% Gamma Approximate UCL	44.81	95% KM (Chebyshev) UCL	48.06
95% Adjusted Gamma UCL	44.83	97.5% KM (Chebyshev) UCL	50.31
		99% KM (Chebyshev) UCL	54.74
		Potential UCLs to Use	
		95% KM (BCA) UCL	44.84

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_Metal_Zinc

General Statistics

Number of Valid Observations	198	Number of Distinct Observations	197

Raw Statistics		Log-transformed Statistics	
Minimum	9.1	Minimum of Log Data	2.208
Maximum	113000	Maximum of Log Data	11.64
Mean	4256	Mean of log Data	5.941
Median	282.7	SD of log Data	1.777
SD	15514		
Coefficient of Variation	3.646		
Skewness	4.828		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.467	Lilliefors Test Statistic	0.112
Lilliefors Critical Value	0.063	Lilliefors Critical Value	0.063
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	6078	95% H-UCL	2684
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3343
95% Adjusted-CLT UCL	6473	97.5% Chebyshev (MVUE) UCL	4008
95% Modified-t UCL	6141	99% Chebyshev (MVUE) UCL	5314

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.287	Data do not follow a Discernable Distribution (0.05)
Theta Star	14849	
MLE of Mean	4256	
MLE of Standard Deviation	7949	
nu star	113.5	
Approximate Chi Square Value (.05)	89.89	**Nonparametric Statistics**
Adjusted Level of Significance	0.0488	95% CLT UCL 6069
Adjusted Chi Square Value	89.74	95% Jackknife UCL 6078
		95% Standard Bootstrap UCL 6078
Anderson-Darling Test Statistic	28.88	95% Bootstrap-t UCL 6705
Anderson-Darling 5% Critical Value	0.875	95% Hall's Bootstrap UCL 6474
Kolmogorov-Smirnov Test Statistic	0.291	95% Percentile Bootstrap UCL 6184
Kolmogorov-Smirnov 5% Critical Value	0.0699	95% BCA Bootstrap UCL 6651
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 9061
		97.5% Chebyshev(Mean, Sd) UCL 11141
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 15226
95% Approximate Gamma UCL	5372	
95% Adjusted Gamma UCL	5382	

Potential UCL to Use	Use 97.5% Chebyshev (Mean, Sd) UCL 11141

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_PCB_Total PCBs

General Statistics

Number of Valid Observations	215	Number of Distinct Observations	187

Raw Statistics		Log-transformed Statistics	
Minimum	0.0115	Minimum of Log Data	-4.47
Maximum	21.62	Maximum of Log Data	3.073
Mean	1.395	Mean of log Data	-1.375
Median	0.281	SD of log Data	2.03
SD	3.028		
Coefficient of Variation	2.17		
Skewness	3.911		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.324	Lilliefors Test Statistic	0.114
Lilliefors Critical Value	0.0604	Lilliefors Critical Value	0.0604
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.736	95% H-UCL	3.087
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3.865
95% Adjusted-CLT UCL	1.794	97.5% Chebyshev (MVUE) UCL	4.703
95% Modified-t UCL	1.746	99% Chebyshev (MVUE) UCL	6.35

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.385	Data do not follow a Discernable Distribution (0.05)
Theta Star	3.625	
MLE of Mean	1.395	
MLE of Standard Deviation	2.249	
nu star	165.5	
Approximate Chi Square Value (.05)	136.8	**Nonparametric Statistics**
Adjusted Level of Significance	0.0489	95% CLT UCL 1.735
Adjusted Chi Square Value	136.6	95% Jackknife UCL 1.736
		95% Standard Bootstrap UCL 1.74
Anderson-Darling Test Statistic	6.312	95% Bootstrap-t UCL 1.818
Anderson-Darling 5% Critical Value	0.848	95% Hall's Bootstrap UCL 1.806
Kolmogorov-Smirnov Test Statistic	0.121	95% Percentile Bootstrap UCL 1.758
Kolmogorov-Smirnov 5% Critical Value	0.0665	95% BCA Bootstrap UCL 1.783
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 2.295
		97.5% Chebyshev(Mean, Sd) UCL 2.685
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 3.45
95% Approximate Gamma UCL	1.689	
95% Adjusted Gamma UCL	1.691	
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL 3.45

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_2,3,7,8-TCDD-Dioxins

General Statistics

Number of Valid Observations	19	Number of Distinct Observations	19

Raw Statistics		Log-transformed Statistics	
Minimum	6.2E-07	Minimum of Log Data	-14.29
Maximum	2.12E-05	Maximum of Log Data	-10.76
Mean	7.67E-06	Mean of log Data	-12.22
Median	4.74E-06	SD of log Data	1.043
SD	6.75E-06		
Coefficient of Variation	N/A		
Skewness	0.869		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.86	Shapiro Wilk Test Statistic	0.957
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.901
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.04E-05	95% H-UCL	1.63E-05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.76E-05
95% Adjusted-CLT UCL	1.05E-05	97.5% Chebyshev (MVUE) UCL	2.18E-05
95% Modified-t UCL	1.04E-05	99% Chebyshev (MVUE) UCL	2.98E-05

Gamma Distribution Test		Data Distribution
k star (bias corrected)	1.102	Data appear Gamma Distributed at 5% Significance Level
Theta Star	6.96E-06	
MLE of Mean	7.67E-06	
MLE of Standard Deviation	7.31E-06	
nu star	41.87	
Approximate Chi Square Value (.05)	28.04	**Nonparametric Statistics**
Adjusted Level of Significance	0.0369	95% CLT UCL 1.02E-05
Adjusted Chi Square Value	27.05	95% Jackknife UCL 1.04E-05
		95% Standard Bootstrap UCL 1.01E-05
Anderson-Darling Test Statistic	0.366	95% Bootstrap-t UCL 1.09E-05
Anderson-Darling 5% Critical Value	0.763	95% Hall's Bootstrap UCL 1.03E-05
Kolmogorov-Smirnov Test Statistic	0.141	95% Percentile Bootstrap UCL 1.01E-05
Kolmogorov-Smirnov 5% Critical Value	0.203	95% BCA Bootstrap UCL 1.04E-05
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 1.44E-05
		97.5% Chebyshev(Mean, Sd) UCL 1.73E-05
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 2.31E-05
95% Approximate Gamma UCL	1.15E-05	
95% Adjusted Gamma UCL	1.19E-05	
Potential UCL to Use		Use 95% Approximate Gamma UCL 1.15E-05

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_2,3,7,8-TCDD-Furans

General Statistics

Number of Valid Observations	19	Number of Distinct Observations	19

Raw Statistics		Log-transformed Statistics	
Minimum	1.98E-07	Minimum of Log Data	-15.44
Maximum	0.000885	Maximum of Log Data	-7.03
Mean	0.000122	Mean of log Data	-10.65
Median	2.46E-05	SD of log Data	2.046
SD	0.000263		
Coefficient of Variation	2.158		
Skewness	2.725		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.47	Shapiro Wilk Test Statistic	0.96
Shapiro Wilk Critical Value	0.901	Shapiro Wilk Critical Value	0.901
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.000227	95% H-UCL	0.00156
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.000514
95% Adjusted-CLT UCL	0.000262	97.5% Chebyshev (MVUE) UCL	0.000673
95% Modified-t UCL	0.000233	99% Chebyshev (MVUE) UCL	0.000985

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.374	Data appear Lognormal at 5% Significance Level
Theta Star	0.000326	
MLE of Mean	0.000122	
MLE of Standard Deviation	0.000199	
nu star	14.2	
Approximate Chi Square Value (.05)	6.705	**Nonparametric Statistics**
Adjusted Level of Significance	0.0369	95% CLT UCL 0.000221
Adjusted Chi Square Value	6.259	95% Jackknife UCL 0.000227
		95% Standard Bootstrap UCL 0.000218
Anderson-Darling Test Statistic	1.035	95% Bootstrap-t UCL 0.00088
Anderson-Darling 5% Critical Value	0.822	95% Hall's Bootstrap UCL 0.000803
Kolmogorov-Smirnov Test Statistic	0.214	95% Percentile Bootstrap UCL 0.000243
Kolmogorov-Smirnov 5% Critical Value	0.213	95% BCA Bootstrap UCL 0.000261
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 0.000385
		97.5% Chebyshev(Mean, Sd) UCL 0.000499
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 0.000723
95% Approximate Gamma UCL	0.000258	
95% Adjusted Gamma UCL	0.000277	

Potential UCL to Use	Use 99% Chebyshev (Mean, Sd) UCL 0.000723

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_B(a)P

General Statistics

Number of Valid Observations	215	Number of Distinct Observations	211

Raw Statistics		Log-transformed Statistics	
Minimum	0.0179	Minimum of Log Data	-4.024
Maximum	50.79	Maximum of Log Data	3.928
Mean	0.728	Mean of log Data	-1.613
Median	0.161	SD of log Data	1.171
SD	3.808		
Coefficient of Variation	5.234		
Skewness	11.52		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.426	Lilliefors Test Statistic	0.121
Lilliefors Critical Value	0.0604	Lilliefors Critical Value	0.0604
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.157	95% H-UCL	0.476
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.569
95% Adjusted-CLT UCL	1.373	97.5% Chebyshev (MVUE) UCL	0.645
95% Modified-t UCL	1.191	99% Chebyshev (MVUE) UCL	0.795

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.488	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.491	
MLE of Mean	0.728	
MLE of Standard Deviation	1.041	
nu star	209.9	
Approximate Chi Square Value (.05)	177.4	**Nonparametric Statistics**
Adjusted Level of Significance	0.0489	95% CLT UCL 1.155
Adjusted Chi Square Value	177.2	95% Jackknife UCL 1.157
		95% Standard Bootstrap UCL 1.154
Anderson-Darling Test Statistic	25.54	95% Bootstrap-t UCL 2.523
Anderson-Darling 5% Critical Value	0.823	95% Hall's Bootstrap UCL 2.766
Kolmogorov-Smirnov Test Statistic	0.265	95% Percentile Bootstrap UCL 1.208
Kolmogorov-Smirnov 5% Critical Value	0.0656	95% BCA Bootstrap UCL 1.601
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 1.86
		97.5% Chebyshev(Mean, Sd) UCL 2.349
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 3.311
95% Approximate Gamma UCL	0.861	
95% Adjusted Gamma UCL	0.862	
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL 2.349

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_Bis(2-Ethylhexyl) Phthalate

General Statistics

Number of Valid Data	215	Number of Detected Data	169
Number of Distinct Detected Data	163	Number of Non-Detect Data	46
		Percent Non-Detects	21.40%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0393	Minimum Detected	-3.238
Maximum Detected	129	Maximum Detected	4.86
Mean of Detected	1.443	Mean of Detected	-1.179
SD of Detected	9.95	SD of Detected	1.278
Minimum Non-Detect	0.0388	Minimum Non-Detect	-3.251
Maximum Non-Detect	0.52	Maximum Non-Detect	-0.654

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	169
Number treated as Detected	46
Single DL Non-Detect Percentage	78.60%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.444	Lilliefors Test Statistic	0.105
5% Lilliefors Critical Value	0.0682	5% Lilliefors Critical Value	0.0682
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.15	Mean	-1.571
SD	8.834	SD	1.41
95% DL/2 (t) UCL	2.145	95% H-Stat (DL/2) UCL	0.659
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-1.627
		SD in Log Scale	1.46
		Mean in Original Scale	1.145
		SD in Original Scale	8.835
		95% Percentile Bootstrap UCL	2.333
		95% BCA Bootstrap UCL	2.967

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.418	Data do not follow a Discernable Distribution (0.05)
Theta Star	3.449	
nu star	141.4	
A-D Test Statistic	5.92E+28	
5% A-D Critical Value	0.839	
K-S Test Statistic	0.839	
5% K-S Critical Value	0.0766	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.0393	Mean	1.149
Maximum	129	SD	8.814
Mean	1.346	SE of Mean	0.603
Median	0.361	95% KM (t) UCL	2.145
SD	8.818	95% KM (z) UCL	2.141
k star	0.511	95% KM (jackknife) UCL	2.144
Theta star	2.635	95% KM (bootstrap t) UCL	7.49
Nu star	219.7	95% KM (BCA) UCL	2.348
AppChi2	186.4	95% KM (Percentile Bootstrap) UCL	2.341
95% Gamma Approximate UCL	1.587	95% KM (Chebyshev) UCL	3.777
95% Adjusted Gamma UCL	1.589	97.5% KM (Chebyshev) UCL	4.914
		99% KM (Chebyshev) UCL	7.148
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	3.777

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_4-Chloroaniline

General Statistics

Number of Valid Data	215	Number of Detected Data	11
Number of Distinct Detected Data	11	Number of Non-Detect Data	204
		Percent Non-Detects	94.88%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0385	Minimum Detected	-3.257
Maximum Detected	1.747	Maximum Detected	0.558
Mean of Detected	0.547	Mean of Detected	-1.218
SD of Detected	0.546	SD of Detected	1.291
Minimum Non-Detect	0.021	Minimum Non-Detect	-3.863
Maximum Non-Detect	11.11	Maximum Non-Detect	2.408

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	215
Number treated as Detected	0
Single DL Non-Detect Percentage	100.00%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.868	Shapiro Wilk Test Statistic	0.929
5% Shapiro Wilk Critical Value	0.85	5% Shapiro Wilk Critical Value	0.85
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.215	Mean	-2.294
SD	0.505	SD	1.181
95% DL/2 (t) UCL	0.272	95% H-Stat (DL/2) UCL	0.238
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-5.668
		SD in Log Scale	1.846
		Mean in Original Scale	0.0357
		SD in Original Scale	0.168
		95% Percentile Bootstrap UCL	0.0574
		95% BCA Bootstrap UCL	0.0634

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.747	Data appear Normal at 5% Significance Level
Theta Star	0.733	
nu star	16.44	
A-D Test Statistic	0.358	
5% A-D Critical Value	0.754	
K-S Test Statistic	0.754	
5% K-S Critical Value	0.263	
Data appear Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	0.0709
Maximum	1.747	SD	0.167
Mean	0.399	SE of Mean	0.0126
Median	0.384	95% KM (t) UCL	0.0917
SD	0.266	95% KM (z) UCL	0.0916
k star	0.31	95% KM (jackknife) UCL	0.0962
Theta star	1.288	95% KM (bootstrap t) UCL	0.0962
Nu star	133.3	95% KM (BCA) UCL	0.14
AppChi2	107.6	95% KM (Percentile Bootstrap) UCL	0.129
95% Gamma Approximate UCL	0.495	95% KM (Chebyshev) UCL	0.126
95% Adjusted Gamma UCL	0.495	97.5% KM (Chebyshev) UCL	0.15
		99% KM (Chebyshev) UCL	0.196
		Potential UCLs to Use	
		95% KM (t) UCL	0.0917
		95% KM (Percentile Bootstrap) UCL	0.129

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_Dibenzofuran

General Statistics

Number of Valid Data	215	Number of Detected Data	86
Number of Distinct Detected Data	86	Number of Non-Detect Data	129
		Percent Non-Detects	60.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0139	Minimum Detected	-4.279
Maximum Detected	78.02	Maximum Detected	4.357
Mean of Detected	1.549	Mean of Detected	-1.949
SD of Detected	8.515	SD of Detected	1.715
Minimum Non-Detect	0.016	Minimum Non-Detect	-4.135
Maximum Non-Detect	0.78	Maximum Non-Detect	-0.248

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	199
Number treated as Detected	16
Single DL Non-Detect Percentage	92.56%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.428	Lilliefors Test Statistic	0.17
5% Lilliefors Critical Value	0.0955	5% Lilliefors Critical Value	0.0955
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.659	Mean	-2.663
SD	5.416	SD	1.424
95% DL/2 (t) UCL	1.269	95% H-Stat (DL/2) UCL	0.258
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-3.331
		SD in Log Scale	1.741
		Mean in Original Scale	0.632
		SD in Original Scale	5.418
		95% Percentile Bootstrap UCL	1.355
		95% BCA Bootstrap UCL	1.997

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.288	Data do not follow a Discernable Distribution (0.05)
Theta Star	5.378	
nu star	49.55	
A-D Test Statistic	12.17	**Nonparametric Statistics**
5% A-D Critical Value	0.871	Kaplan-Meier (KM) Method
K-S Test Statistic	0.871	Mean 0.64
5% K-S Critical Value	0.105	SD 5.405
Data not Gamma Distributed at 5% Significance Level		SE of Mean 0.371
		95% KM (t) UCL 1.252
Assuming Gamma Distribution		95% KM (z) UCL 1.249
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL 1.25
Minimum	0.0139	95% KM (bootstrap t) UCL 4.348
Maximum	78.02	95% KM (BCA) UCL 1.384
Mean	1.518	95% KM (Percentile Bootstrap) UCL 1.339
Median	1.346	95% KM (Chebyshev) UCL 2.256
SD	5.369	97.5% KM (Chebyshev) UCL 2.955
k star	0.632	99% KM (Chebyshev) UCL 4.329
Theta star	2.402	
Nu star	271.8	Potential UCLs to Use
AppChi2	234.6	95% KM (Chebyshev) UCL 2.256
95% Gamma Approximate UCL	1.759	
95% Adjusted Gamma UCL	1.761	

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_1,2-Dichlorobenzene

General Statistics

Number of Valid Data	215	Number of Detected Data	73
Number of Distinct Detected Data	73	Number of Non-Detect Data	142
		Percent Non-Detects	66.05%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0233	Minimum Detected	-3.759
Maximum Detected	387.6	Maximum Detected	5.96
Mean of Detected	5.978	Mean of Detected	-1.728
SD of Detected	45.33	SD of Detected	1.678
Minimum Non-Detect	0.016	Minimum Non-Detect	-4.135
Maximum Non-Detect	0.78	Maximum Non-Detect	-0.248

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	207
Number treated as Detected	8
Single DL Non-Detect Percentage	96.28%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.468	Lilliefors Test Statistic	0.124
5% Lilliefors Critical Value	0.104	5% Lilliefors Critical Value	0.104
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	2.07	Mean	-2.68
SD	26.44	SD	1.364
95% DL/2 (t) UCL	5.049	95% H-Stat (DL/2) UCL	0.2
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-3.72
		SD in Log Scale	1.914
		Mean in Original Scale	2.039
		SD in Original Scale	26.44
		95% Percentile Bootstrap UCL	5.602
		95% BCA Bootstrap UCL	9.164

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.209	Data do not follow a Discernable Distribution (0.05)
Theta Star	28.66	
nu star	30.46	
A-D Test Statistic	15.94	**Nonparametric Statistics**
5% A-D Critical Value	0.906	Kaplan-Meier (KM) Method
K-S Test Statistic	0.906	Mean 2.054
5% K-S Critical Value	0.116	SD 26.38
Data not Gamma Distributed at 5% Significance Level		SE of Mean 1.812
		95% KM (t) UCL 5.046
Assuming Gamma Distribution		95% KM (z) UCL 5.033
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL 5.033
Minimum	1E-09	95% KM (bootstrap t) UCL 71.66
Maximum	387.6	95% KM (BCA) UCL 5.649
Mean	6.515	95% KM (Percentile Bootstrap) UCL 5.659
Median	6.7	95% KM (Chebyshev) UCL 9.95
SD	26.34	97.5% KM (Chebyshev) UCL 13.37
k star	0.443	99% KM (Chebyshev) UCL 20.08
Theta star	14.7	
Nu star	190.6	Potential UCLs to Use
AppChi2	159.7	95% KM (Chebyshev) UCL 9.95
95% Gamma Approximate UCL	7.778	
95% Adjusted Gamma UCL	7.787	

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_1,4-Dichlorobenzene

General Statistics

Number of Valid Data	215	Number of Detected Data	42
Number of Distinct Detected Data	41	Number of Non-Detect Data	173
		Percent Non-Detects	80.47%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0224	Minimum Detected	-3.799
Maximum Detected	79.02	Maximum Detected	4.37
Mean of Detected	2.442	Mean of Detected	-1.769
SD of Detected	12.19	SD of Detected	1.733
Minimum Non-Detect	0.015	Minimum Non-Detect	-4.2
Maximum Non-Detect	4.495	Maximum Non-Detect	1.503

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	213
Number treated as Detected	2
Single DL Non-Detect Percentage	99.07%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.207	Shapiro Wilk Test Statistic	0.835
5% Shapiro Wilk Critical Value	0.942	5% Shapiro Wilk Critical Value	0.942
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.535	Mean	-2.876
SD	5.42	SD	1.201
95% DL/2 (t) UCL	1.146	95% H-Stat (DL/2) UCL	0.131
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-4.768
		SD in Log Scale	1.972
		Mean in Original Scale	0.483
		SD in Original Scale	5.423
		95% Percentile Bootstrap UCL	1.207
		95% BCA Bootstrap UCL	1.676

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.261	Data do not follow a Discernable Distribution (0.05)
Theta Star	9.34	
nu star	21.96	
A-D Test Statistic	6.953	
5% A-D Critical Value	0.875	
K-S Test Statistic	0.875	
5% K-S Critical Value	0.149	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	0.502
Maximum	79.02	SD	5.408
Mean	3.652	SE of Mean	0.373
Median	0.56	95% KM (t) UCL	1.118
SD	7.75	95% KM (z) UCL	1.116
k star	0.105	95% KM (jackknife) UCL	1.111
Theta star	34.82	95% KM (bootstrap t) UCL	7.378
Nu star	45.1	95% KM (BCA) UCL	1.198
AppChi2	30.69	95% KM (Percentile Bootstrap) UCL	1.237
95% Gamma Approximate UCL	5.366	95% KM (Chebyshev) UCL	2.129
95% Adjusted Gamma UCL	5.38	97.5% KM (Chebyshev) UCL	2.833
		99% KM (Chebyshev) UCL	4.216
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	2.129

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_Hexachlorobenzene

General Statistics

Number of Valid Data	215	Number of Detected Data	122
Number of Distinct Detected Data	122	Number of Non-Detect Data	93
		Percent Non-Detects	43.26%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0264	Minimum Detected	-3.636
Maximum Detected	720.3	Maximum Detected	6.58
Mean of Detected	12	Mean of Detected	-0.795
SD of Detected	70.18	SD of Detected	1.984
Minimum Non-Detect	0.0173	Minimum Non-Detect	-4.06
Maximum Non-Detect	1.093	Maximum Non-Detect	0.0889

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	187
Number treated as Detected	28
Single DL Non-Detect Percentage	86.98%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.461	Lilliefors Test Statistic	0.107
5% Lilliefors Critical Value	0.0802	5% Lilliefors Critical Value	0.0802
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	6.837	Mean	-1.886
SD	53.1	SD	2.048
95% DL/2 (t) UCL	12.82	95% H-Stat (DL/2) UCL	1.401
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-2.497
		SD in Log Scale	2.557
		Mean in Original Scale	6.818
		SD in Original Scale	53.1
		95% Percentile Bootstrap UCL	13.23
		95% BCA Bootstrap UCL	17.67

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.221	Data do not follow a Discernable Distribution (0.05)
Theta Star	54.34	
nu star	53.9	
A-D Test Statistic	19.86	**Nonparametric Statistics**
5% A-D Critical Value	0.903	Kaplan-Meier (KM) Method
K-S Test Statistic	0.903	Mean 6.83
5% K-S Critical Value	0.0924	SD 52.98
Data not Gamma Distributed at 5% Significance Level		SE of Mean 3.628
		95% KM (t) UCL 12.82
Assuming Gamma Distribution		95% KM (z) UCL 12.8
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL 12.81
Minimum	1E-09	95% KM (bootstrap t) UCL 27.5
Maximum	720.3	95% KM (BCA) UCL 14.11
Mean	7.406	95% KM (Percentile Bootstrap) UCL 13.24
Median	0.115	95% KM (Chebyshev) UCL 22.64
SD	53.17	97.5% KM (Chebyshev) UCL 29.49
k star	0.0867	99% KM (Chebyshev) UCL 42.93
Theta star	85.38	
Nu star	37.3	Potential UCLs to Use
AppChi2	24.32	97.5% KM (Chebyshev) UCL 29.49
95% Gamma Approximate UCL	11.36	
95% Adjusted Gamma UCL	11.39	

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_Hexachlorobutadiene

General Statistics

Number of Valid Data	215	Number of Detected Data	36
Number of Distinct Detected Data	36	Number of Non-Detect Data	179
		Percent Non-Detects	83.26%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0256	Minimum Detected	-3.665
Maximum Detected	116.8	Maximum Detected	4.761
Mean of Detected	5.998	Mean of Detected	-1.034
SD of Detected	21.72	SD of Detected	2.013
Minimum Non-Detect	0.0203	Minimum Non-Detect	-3.9
Maximum Non-Detect	4.495	Maximum Non-Detect	1.503

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	212
Number treated as Detected	3
Single DL Non-Detect Percentage	98.60%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.312	Shapiro Wilk Test Statistic	0.894
5% Shapiro Wilk Critical Value	0.935	5% Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.069	Mean	-2.748
SD	9.059	SD	1.39
95% DL/2 (t) UCL	2.09	95% H-Stat (DL/2) UCL	0.177
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-6.103
		SD in Log Scale	2.845
		Mean in Original Scale	1.006
		SD in Original Scale	9.065
		95% Percentile Bootstrap UCL	2.148
		95% BCA Bootstrap UCL	2.636

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.249	Data do not follow a Discernable Distribution (0.05)
Theta Star	24.1	
nu star	17.91	
A-D Test Statistic	5.291	
5% A-D Critical Value	0.878	
K-S Test Statistic	0.878	
5% K-S Critical Value	0.161	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	1.031
Maximum	116.8	SD	9.041
Mean	7.035	SE of Mean	0.625
Median	3.805	95% KM (t) UCL	2.064
SD	12.51	95% KM (z) UCL	2.059
k star	0.179	95% KM (jackknife) UCL	2.051
Theta star	39.35	95% KM (bootstrap t) UCL	14.02
Nu star	76.88	95% KM (BCA) UCL	2.315
AppChi2	57.68	95% KM (Percentile Bootstrap) UCL	2.277
95% Gamma Approximate UCL	9.376	95% KM (Chebyshev) UCL	3.756
95% Adjusted Gamma UCL	9.394	97.5% KM (Chebyshev) UCL	4.936
		99% KM (Chebyshev) UCL	7.253
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	4.936

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_2-Methylnaphthalene

General Statistics

Number of Valid Data	215	Number of Detected Data	93
Number of Distinct Detected Data	91	Number of Non-Detect Data	122
		Percent Non-Detects	56.74%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0192	Minimum Detected	-3.953
Maximum Detected	86.02	Maximum Detected	4.455
Mean of Detected	1.49	Mean of Detected	-2.143
SD of Detected	9.076	SD of Detected	1.569
Minimum Non-Detect	0.022	Minimum Non-Detect	-3.817
Maximum Non-Detect	1.093	Maximum Non-Detect	0.0889

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	208
Number treated as Detected	7
Single DL Non-Detect Percentage	96.74%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.45	Lilliefors Test Statistic	0.139
5% Lilliefors Critical Value	0.0919	5% Lilliefors Critical Value	0.0919
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.685	Mean	-2.658
SD	5.993	SD	1.305
95% DL/2 (t) UCL	1.36	95% H-Stat (DL/2) UCL	0.21
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-3.05
		SD in Log Scale	1.429
		Mean in Original Scale	0.662
		SD in Original Scale	5.995
		95% Percentile Bootstrap UCL	1.401
		95% BCA Bootstrap UCL	2.117

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.273	Data do not follow a Discernable Distribution (0.05)
Theta Star	5.447	
nu star	50.87	
A-D Test Statistic	16.87	
5% A-D Critical Value	0.879	
K-S Test Statistic	0.879	
5% K-S Critical Value	0.101	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	0.667
Maximum	86.02	SD	5.98
Mean	1.579	SE of Mean	0.41
Median	1.296	95% KM (t) UCL	1.344
SD	5.962	95% KM (z) UCL	1.341
k star	0.482	95% KM (jackknife) UCL	1.342
Theta star	3.28	95% KM (bootstrap t) UCL	4.443
Nu star	207.1	95% KM (BCA) UCL	1.535
AppChi2	174.8	95% KM (Percentile Bootstrap) UCL	1.473
95% Gamma Approximate UCL	1.871	95% KM (Chebyshev) UCL	2.454
95% Adjusted Gamma UCL	1.873	97.5% KM (Chebyshev) UCL	3.228
		99% KM (Chebyshev) UCL	4.747
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	2.454

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_Naphthalene

General Statistics

Number of Valid Data	215	Number of Detected Data	124
Number of Distinct Detected Data	124	Number of Non-Detect Data	91
		Percent Non-Detects	42.33%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0168	Minimum Detected	-4.086
Maximum Detected	79.02	Maximum Detected	4.37
Mean of Detected	2.405	Mean of Detected	-1.736
SD of Detected	9.924	SD of Detected	1.769
Minimum Non-Detect	0.0195	Minimum Non-Detect	-3.937
Maximum Non-Detect	1.093	Maximum Non-Detect	0.0889

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	198
Number treated as Detected	17
Single DL Non-Detect Percentage	92.09%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.423	Lilliefors Test Statistic	0.182
5% Lilliefors Critical Value	0.0796	5% Lilliefors Critical Value	0.0796
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.418	Mean	-2.305
SD	7.612	SD	1.619
95% DL/2 (t) UCL	2.276	95% H-Stat (DL/2) UCL	0.467
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-2.692
		SD in Log Scale	1.868
		Mean in Original Scale	1.399
		SD in Original Scale	7.615
		95% Percentile Bootstrap UCL	2.272
		95% BCA Bootstrap UCL	2.624

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.268	Data do not follow a Discernable Distribution (0.05)
Theta Star	8.991	
nu star	66.34	
A-D Test Statistic	21.07	
5% A-D Critical Value	0.882	
K-S Test Statistic	0.882	
5% K-S Critical Value	0.091	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	1.406
Maximum	79.02	SD	7.596
Mean	1.942	SE of Mean	0.52
Median	0.0986	95% KM (t) UCL	2.265
SD	7.785	95% KM (z) UCL	2.261
k star	0.122	95% KM (jackknife) UCL	2.263
Theta star	15.89	95% KM (bootstrap t) UCL	3.083
Nu star	52.56	95% KM (BCA) UCL	2.322
AppChi2	36.9	95% KM (Percentile Bootstrap) UCL	2.357
95% Gamma Approximate UCL	2.765	95% KM (Chebyshev) UCL	3.673
95% Adjusted Gamma UCL	2.772	97.5% KM (Chebyshev) UCL	4.654
		99% KM (Chebyshev) UCL	6.581
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	4.654

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_Phenanthrene

General Statistics

Number of Valid Data	215	Number of Detected Data	182
Number of Distinct Detected Data	180	Number of Non-Detect Data	33
		Percent Non-Detects	15.35%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0184	Minimum Detected	-3.995
Maximum Detected	171.5	Maximum Detected	5.145
Mean of Detected	2.282	Mean of Detected	-1.51
SD of Detected	13.71	SD of Detected	1.606
Minimum Non-Detect	0.015	Minimum Non-Detect	-4.2
Maximum Non-Detect	0.4	Maximum Non-Detect	-0.916

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	166
Number treated as Detected	49
Single DL Non-Detect Percentage	77.21%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.434	Lilliefors Test Statistic	0.12
5% Lilliefors Critical Value	0.0657	5% Lilliefors Critical Value	0.0657
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.943	Mean	-1.743
SD	12.64	SD	1.624
95% DL/2 (t) UCL	3.367	95% H-Stat (DL/2) UCL	0.887
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-1.806
		SD in Log Scale	1.685
		Mean in Original Scale	1.939
		SD in Original Scale	12.64
		95% Percentile Bootstrap UCL	3.522
		95% BCA Bootstrap UCL	4.763

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.295	Data do not follow a Discernable Distribution (0.05)
Theta Star	7.741	
nu star	107.3	
A-D Test Statistic	27.29	**Nonparametric Statistics**
5% A-D Critical Value	0.871	Kaplan-Meier (KM) Method
K-S Test Statistic	0.871	Mean 1.941
5% K-S Critical Value	0.0742	SD 12.61
Data not Gamma Distributed at 5% Significance Level		SE of Mean 0.862
		95% KM (t) UCL 3.365
Assuming Gamma Distribution		95% KM (z) UCL 3.359
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL 3.365
Minimum	1E-09	95% KM (bootstrap t) UCL 7.098
Maximum	171.5	95% KM (BCA) UCL 3.642
Mean	1.953	95% KM (Percentile Bootstrap) UCL 3.472
Median	0.12	95% KM (Chebyshev) UCL 5.7
SD	12.64	97.5% KM (Chebyshev) UCL 7.326
k star	0.158	99% KM (Chebyshev) UCL 10.52
Theta star	12.33	
Nu star	68.08	Potential UCLs to Use
AppChi2	50.09	97.5% KM (Chebyshev) UCL 7.326
95% Gamma Approximate UCL	2.654	
95% Adjusted Gamma UCL	2.659	

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_SVOC_1,2,4-Trichlorobenzene

General Statistics

Number of Valid Data	215	Number of Detected Data	98
Number of Distinct Detected Data	97	Number of Non-Detect Data	117
		Percent Non-Detects	54.42%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0284	Minimum Detected	-3.561
Maximum Detected	2321	Maximum Detected	7.75
Mean of Detected	24.03	Mean of Detected	-1.908
SD of Detected	234.4	SD of Detected	1.562
Minimum Non-Detect	0.016	Minimum Non-Detect	-4.135
Maximum Non-Detect	4.495	Maximum Non-Detect	1.503

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	214
Number treated as Detected	1
Single DL Non-Detect Percentage	99.53%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.524	Lilliefors Test Statistic	0.157
5% Lilliefors Critical Value	0.0895	5% Lilliefors Critical Value	0.0895
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	11	Mean	-2.654
SD	158.2	SD	1.472
95% DL/2 (t) UCL	28.83	95% H-Stat (DL/2) UCL	0.245
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-3.266
		SD in Log Scale	1.769
		Mean in Original Scale	10.96
		SD in Original Scale	158.3
		95% Percentile Bootstrap UCL	32.54
		95% BCA Bootstrap UCL	54.11

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.153	Data do not follow a Discernable Distribution (0.05)
Theta Star	156.9	
nu star	30.01	
A-D Test Statistic	28.96	**Nonparametric Statistics**
5% A-D Critical Value	0.964	Kaplan-Meier (KM) Method
K-S Test Statistic	0.964	Mean 10.98
5% K-S Critical Value	0.102	SD 157.9
Data not Gamma Distributed at 5% Significance Level		SE of Mean 10.82
		95% KM (t) UCL 28.86
Assuming Gamma Distribution		95% KM (z) UCL 28.78
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL 28.81
Minimum	0.0284	95% KM (bootstrap t) UCL 4355
Maximum	2321	95% KM (BCA) UCL 32.61
Mean	23.41	95% KM (Percentile Bootstrap) UCL 32.56
Median	21.44	95% KM (Chebyshev) UCL 58.15
SD	157.8	97.5% KM (Chebyshev) UCL 78.57
k star	0.296	99% KM (Chebyshev) UCL 118.7
Theta star	79.04	
Nu star	127.4	Potential UCLs to Use
AppChi2	102.3	95% KM (Chebyshev) UCL 58.15
95% Gamma Approximate UCL	29.15	
95% Adjusted Gamma UCL	29.19	

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_VOC_Benzene

General Statistics

Number of Valid Data	215	Number of Detected Data	91
Number of Distinct Detected Data	77	Number of Non-Detect Data	124
		Percent Non-Detects	57.67%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.000658	Minimum Detected	-7.327
Maximum Detected	71.5	Maximum Detected	4.27
Mean of Detected	1.244	Mean of Detected	-4.394
SD of Detected	7.654	SD of Detected	2.595
Minimum Non-Detect	0.00067	Minimum Non-Detect	-7.308
Maximum Non-Detect	0.325	Maximum Non-Detect	-1.124

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	203
Number treated as Detected	12
Single DL Non-Detect Percentage	94.42%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.436	Lilliefors Test Statistic	0.201
5% Lilliefors Critical Value	0.0929	5% Lilliefors Critical Value	0.0929
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.532	Mean	-5.347
SD	5.001	SD	2.22
95% DL/2 (t) UCL	1.096	95% H-Stat (DL/2) UCL	0.0768
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-6.884
		SD in Log Scale	2.948
		Mean in Original Scale	0.527
		SD in Original Scale	5.002
		95% Percentile Bootstrap UCL	1.201
		95% BCA Bootstrap UCL	1.525

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.166	Data do not follow a Discernable Distribution (0.05)
Theta Star	7.477	
nu star	30.27	
A-D Test Statistic	15.64	
5% A-D Critical Value	0.947	
K-S Test Statistic	0.947	
5% K-S Critical Value	0.105	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.000658	Mean	0.527
Maximum	71.5	SD	4.99
Mean	1.234	SE of Mean	0.342
Median	1.187	95% KM (t) UCL	1.093
SD	4.964	95% KM (z) UCL	1.09
k star	0.343	95% KM (jackknife) UCL	1.091
Theta star	3.596	95% KM (bootstrap t) UCL	3.62
Nu star	147.6	95% KM (BCA) UCL	1.164
AppChi2	120.5	95% KM (Percentile Bootstrap) UCL	1.2
95% Gamma Approximate UCL	1.512	95% KM (Chebyshev) UCL	2.019
95% Adjusted Gamma UCL	1.514	97.5% KM (Chebyshev) UCL	2.664
		99% KM (Chebyshev) UCL	3.932
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	2.664

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_VOC_Chlorobenzene

General Statistics

Number of Valid Data	215	Number of Detected Data	43
Number of Distinct Detected Data	43	Number of Non-Detect Data	172
		Percent Non-Detects	80.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.00075	Minimum Detected	-7.195
Maximum Detected	37.21	Maximum Detected	3.616
Mean of Detected	1.245	Mean of Detected	-3.249
SD of Detected	5.692	SD of Detected	2.591
Minimum Non-Detect	0.0034	Minimum Non-Detect	-5.684
Maximum Non-Detect	6.007	Maximum Non-Detect	1.793

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	214
Number treated as Detected	1
Single DL Non-Detect Percentage	99.53%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.234	Shapiro Wilk Test Statistic	0.945
5% Shapiro Wilk Critical Value	0.943	5% Shapiro Wilk Critical Value	0.943
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.285	Mean	-4.759
SD	2.577	SD	1.817
95% DL/2 (t) UCL	0.575	95% H-Stat (DL/2) UCL	0.0571
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-5.641
		SD in Log Scale	1.872
		Mean in Original Scale	0.251
		SD in Original Scale	2.571
		95% Percentile Bootstrap UCL	0.598
		95% BCA Bootstrap UCL	0.793

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.211	Data appear Lognormal at 5% Significance Level
Theta Star	5.892	
nu star	18.17	
A-D Test Statistic	4.21	
5% A-D Critical Value	0.9	
K-S Test Statistic	0.9	
5% K-S Critical Value	0.149	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.00075	Mean	0.252
Maximum	37.21	SD	2.565
Mean	1.043	SE of Mean	0.177
Median	0.715	95% KM (t) UCL	0.545
SD	2.597	95% KM (z) UCL	0.544
k star	0.72	95% KM (jackknife) UCL	0.542
Theta star	1.448	95% KM (bootstrap t) UCL	2.135
Nu star	309.5	95% KM (BCA) UCL	0.61
AppChi2	269.8	95% KM (Percentile Bootstrap) UCL	0.591
95% Gamma Approximate UCL	1.196	95% KM (Chebyshev) UCL	1.024
95% Adjusted Gamma UCL	1.197	97.5% KM (Chebyshev) UCL	1.358
		99% KM (Chebyshev) UCL	2.014
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	1.358

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_VOC_Chloroform

General Statistics

Number of Valid Data	215	Number of Detected Data	67
Number of Distinct Detected Data	64	Number of Non-Detect Data	148
		Percent Non-Detects	68.84%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.00092	Minimum Detected	-6.991
Maximum Detected	22.31	Maximum Detected	3.105
Mean of Detected	0.64	Mean of Detected	-3.682
SD of Detected	2.863	SD of Detected	2.414
Minimum Non-Detect	0.0034	Minimum Non-Detect	-5.684
Maximum Non-Detect	6.007	Maximum Non-Detect	1.793

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	213
Number treated as Detected	2
Single DL Non-Detect Percentage	99.07%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.412	Lilliefors Test Statistic	0.118
5% Lilliefors Critical Value	0.108	5% Lilliefors Critical Value	0.108
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.222	Mean	-4.734
SD	1.629	SD	1.757
95% DL/2 (t) UCL	0.406	95% H-Stat (DL/2) UCL	0.0504
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-5.282
		SD in Log Scale	1.845
		Mean in Original Scale	0.202
		SD in Original Scale	1.617
		95% Percentile Bootstrap UCL	0.41
		95% BCA Bootstrap UCL	0.572

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.223	Data do not follow a Discernable Distribution (0.05)
Theta Star	2.863	
nu star	29.94	
A-D Test Statistic	7.005	
5% A-D Critical Value	0.899	
K-S Test Statistic	0.899	
5% K-S Critical Value	0.12	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	0.202
Maximum	22.31	SD	1.614
Mean	0.551	SE of Mean	0.111
Median	0.115	95% KM (t) UCL	0.385
SD	1.708	95% KM (z) UCL	0.384
k star	0.155	95% KM (jackknife) UCL	0.384
Theta star	3.558	95% KM (bootstrap t) UCL	1.056
Nu star	66.62	95% KM (BCA) UCL	0.421
AppChi2	48.84	95% KM (Percentile Bootstrap) UCL	0.409
95% Gamma Approximate UCL	0.752	95% KM (Chebyshev) UCL	0.685
95% Adjusted Gamma UCL	0.754	97.5% KM (Chebyshev) UCL	0.895
		99% KM (Chebyshev) UCL	1.305
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	0.895

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_VOC_Ethylbenzene

General Statistics

Number of Valid Data	215	Number of Detected Data	38
Number of Distinct Detected Data	35	Number of Non-Detect Data	177
		Percent Non-Detects	82.33%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.00069	Minimum Detected	-7.279
Maximum Detected	6.651	Maximum Detected	1.895
Mean of Detected	0.291	Mean of Detected	-4.625
SD of Detected	1.205	SD of Detected	2.202
Minimum Non-Detect	0.00067	Minimum Non-Detect	-7.308
Maximum Non-Detect	1.151	Maximum Non-Detect	0.141

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	213
Number treated as Detected	2
Single DL Non-Detect Percentage	99.07%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.266	Shapiro Wilk Test Statistic	0.888
5% Shapiro Wilk Critical Value	0.938	5% Shapiro Wilk Critical Value	0.938
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.068	Mean	-5.66
SD	0.515	SD	1.841
95% DL/2 (t) UCL	0.126	95% H-Stat (DL/2) UCL	0.0262
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-8.335
		SD in Log Scale	2.256
		Mean in Original Scale	0.0516
		SD in Original Scale	0.513
		95% Percentile Bootstrap UCL	0.115
		95% BCA Bootstrap UCL	0.158

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.215	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.351	
nu star	16.36	
A-D Test Statistic	5.802	
5% A-D Critical Value	0.895	
K-S Test Statistic	0.895	
5% K-S Critical Value	0.158	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	0.0525
Maximum	6.651	SD	0.512
Mean	0.353	SE of Mean	0.0354
Median	0.0517	95% KM (t) UCL	0.111
SD	0.775	95% KM (z) UCL	0.111
k star	0.109	95% KM (jackknife) UCL	0.11
Theta star	3.24	95% KM (bootstrap t) UCL	1.609
Nu star	46.8	95% KM (BCA) UCL	0.13
AppChi2	32.1	95% KM (Percentile Bootstrap) UCL	0.117
95% Gamma Approximate UCL	0.514	95% KM (Chebyshev) UCL	0.207
95% Adjusted Gamma UCL	0.515	97.5% KM (Chebyshev) UCL	0.274
		99% KM (Chebyshev) UCL	0.405
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	0.274

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_VOC_Methylene Chloride

General Statistics

Number of Valid Data	215	Number of Detected Data	26
Number of Distinct Detected Data	26	Number of Non-Detect Data	189
		Percent Non-Detects	87.91%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0046	Minimum Detected	-5.382
Maximum Detected	345.1	Maximum Detected	5.844
Mean of Detected	13.57	Mean of Detected	-3.097
SD of Detected	67.62	SD of Detected	2.519
Minimum Non-Detect	0.0034	Minimum Non-Detect	-5.684
Maximum Non-Detect	1.6	Maximum Non-Detect	0.47

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	213
Number treated as Detected	2
Single DL Non-Detect Percentage	99.07%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.208	Shapiro Wilk Test Statistic	0.748
5% Shapiro Wilk Critical Value	0.92	5% Shapiro Wilk Critical Value	0.92
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.661	Mean	-4.756
SD	23.53	SD	1.531
95% DL/2 (t) UCL	4.313	95% H-Stat (DL/2) UCL	0.0328
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-10.33
		SD in Log Scale	3.203
		Mean in Original Scale	1.642
		SD in Original Scale	23.53
		95% Percentile Bootstrap UCL	4.849
		95% BCA Bootstrap UCL	8.031

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.146	Data do not follow a Discernable Distribution (0.05)
Theta Star	92.7	
nu star	7.615	
A-D Test Statistic	6.401	
5% A-D Critical Value	0.923	
K-S Test Statistic	0.923	
5% K-S Critical Value	0.192	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.0046	Mean	1.646
Maximum	345.1	SD	23.48
Mean	13.86	SE of Mean	1.633
Median	14.37	95% KM (t) UCL	4.344
SD	23.16	95% KM (z) UCL	4.332
k star	0.837	95% KM (jackknife) UCL	4.296
Theta star	16.55	95% KM (bootstrap t) UCL	516.6
Nu star	360	95% KM (BCA) UCL	4.862
AppChi2	317	95% KM (Percentile Bootstrap) UCL	4.85
95% Gamma Approximate UCL	15.73	95% KM (Chebyshev) UCL	8.764
95% Adjusted Gamma UCL	15.75	97.5% KM (Chebyshev) UCL	11.84
		99% KM (Chebyshev) UCL	17.89
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	11.84

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_VOC_Tetrachloroethylene (PCE)

General Statistics

Number of Valid Data	215	Number of Detected Data	29
Number of Distinct Detected Data	28	Number of Non-Detect Data	186
		Percent Non-Detects	86.51%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.00079	Minimum Detected	-7.143
Maximum Detected	3.247	Maximum Detected	1.178
Mean of Detected	0.289	Mean of Detected	-4.032
SD of Detected	0.804	SD of Detected	2.317
Minimum Non-Detect	0.0043	Minimum Non-Detect	-5.449
Maximum Non-Detect	1.6	Maximum Non-Detect	0.47

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	213
Number treated as Detected	2
Single DL Non-Detect Percentage	99.07%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.402	Shapiro Wilk Test Statistic	0.886
5% Shapiro Wilk Critical Value	0.926	5% Shapiro Wilk Critical Value	0.926
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0614	Mean	-4.887
SD	0.316	SD	1.494
95% DL/2 (t) UCL	0.0969	95% H-Stat (DL/2) UCL	0.0305
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-6.095
		SD in Log Scale	1.369
		Mean in Original Scale	0.0409
		SD in Original Scale	0.307
		95% Percentile Bootstrap UCL	0.0774
		95% BCA Bootstrap UCL	0.0947

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.251	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.155	
nu star	14.53	
A-D Test Statistic	3.295	
5% A-D Critical Value	0.875	
K-S Test Statistic	0.875	
5% K-S Critical Value	0.178	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	1E-09	Mean	0.0415
Maximum	3.247	SD	0.306
Mean	0.292	SE of Mean	0.0213
Median	0.311	95% KM (t) UCL	0.0767
SD	0.302	95% KM (z) UCL	0.0765
k star	0.93	95% KM (jackknife) UCL	0.0761
Theta star	0.314	95% KM (bootstrap t) UCL	0.207
Nu star	399.8	95% KM (BCA) UCL	0.0826
AppChi2	354.5	95% KM (Percentile Bootstrap) UCL	0.0788
95% Gamma Approximate UCL	0.329	95% KM (Chebyshev) UCL	0.134
95% Adjusted Gamma UCL	0.33	97.5% KM (Chebyshev) UCL	0.174
		99% KM (Chebyshev) UCL	0.253
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	0.174

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_VOC_Trichloroethene (TCE)

General Statistics

Number of Valid Data	215	Number of Detected Data	28
Number of Distinct Detected Data	28	Number of Non-Detect Data	187
		Percent Non-Detects	86.98%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.00095	Minimum Detected	-6.959
Maximum Detected	69.5	Maximum Detected	4.241
Mean of Detected	6.548	Mean of Detected	-3.598
SD of Detected	17.94	SD of Detected	3.378
Minimum Non-Detect	0.0034	Minimum Non-Detect	-5.684
Maximum Non-Detect	2.414	Maximum Non-Detect	0.881

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	210
Number treated as Detected	5
Single DL Non-Detect Percentage	97.67%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.423	Shapiro Wilk Test Statistic	0.73
5% Shapiro Wilk Critical Value	0.924	5% Shapiro Wilk Critical Value	0.924
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.879	Mean	-4.857
SD	6.742	SD	1.763
95% DL/2 (t) UCL	1.639	95% H-Stat (DL/2) UCL	0.0498
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-5.992
		SD in Log Scale	1.756
		Mean in Original Scale	0.855
		SD in Original Scale	6.744
		95% Percentile Bootstrap UCL	1.706
		95% BCA Bootstrap UCL	2.045

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.15	Data do not follow a Discernable Distribution (0.05)
Theta Star	43.61	
nu star	8.409	
A-D Test Statistic	5.323	
5% A-D Critical Value	0.924	
K-S Test Statistic	0.924	
5% K-S Critical Value	0.185	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.00095	Mean	0.855
Maximum	69.5	SD	6.728
Mean	6.821	SE of Mean	0.467
Median	7.24	95% KM (t) UCL	1.627
SD	6.459	95% KM (z) UCL	1.624
k star	0.796	95% KM (jackknife) UCL	1.615
Theta star	8.567	95% KM (bootstrap t) UCL	3.597
Nu star	342.4	95% KM (BCA) UCL	1.712
AppChi2	300.5	95% KM (Percentile Bootstrap) UCL	1.698
95% Gamma Approximate UCL	7.772	95% KM (Chebyshev) UCL	2.892
95% Adjusted Gamma UCL	7.779	97.5% KM (Chebyshev) UCL	3.774
		99% KM (Chebyshev) UCL	5.505
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	3.774

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
Mixed Soil (0 to 10 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

MS_VOC_Vinyl Chloride

General Statistics

Number of Valid Data	215	Number of Detected Data	10
Number of Distinct Detected Data	9	Number of Non-Detect Data	205
		Percent Non-Detects	95.35%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0031	Minimum Detected	-5.776
Maximum Detected	0.0785	Maximum Detected	-2.545
Mean of Detected	0.0258	Mean of Detected	-4.14
SD of Detected	0.0243	SD of Detected	1.116
Minimum Non-Detect	0.0034	Minimum Non-Detect	-5.684
Maximum Non-Detect	6.007	Maximum Non-Detect	1.793

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	215
Number treated as Detected	0
Single DL Non-Detect Percentage	100.00%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.865	Shapiro Wilk Test Statistic	0.943
5% Shapiro Wilk Critical Value	0.842	5% Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0461	Mean	-4.96
SD	0.235	SD	1.387
95% DL/2 (t) UCL	0.0726	95% H-Stat (DL/2) UCL	0.0231
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-5.916
		SD in Log Scale	0.636
		Mean in Original Scale	0.0038
		SD in Original Scale	0.00708
		95% Percentile Bootstrap UCL	0.00467
		95% BCA Bootstrap UCL	0.00498

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.892	Data appear Normal at 5% Significance Level
Theta Star	0.0289	
nu star	17.84	
A-D Test Statistic	0.252	
5% A-D Critical Value	0.745	
K-S Test Statistic	0.745	
5% K-S Critical Value	0.273	
Data appear Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0.0031	Mean	0.00455
Maximum	0.0785	SD	0.00736
Mean	0.0238	SE of Mean	0.000586
Median	0.0238	95% KM (t) UCL	0.00552
SD	0.00926	95% KM (z) UCL	0.00552
k star	5.715	95% KM (jackknife) UCL	0.0054
Theta star	0.00417	95% KM (bootstrap t) UCL	0.0059
Nu star	2457	95% KM (BCA) UCL	0.00999
AppChi2	2343	95% KM (Percentile Bootstrap) UCL	0.00892
95% Gamma Approximate UCL	0.025	95% KM (Chebyshev) UCL	0.00711
95% Adjusted Gamma UCL	0.025	97.5% KM (Chebyshev) UCL	0.00821
		99% KM (Chebyshev) UCL	0.0104
		Potential UCLs to Use	
		95% KM (t) UCL	0.00552
		95% KM (Percentile Bootstrap) UCL	0.00892

Note: DL/2 is not a recommended method.

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Aluminum

General Statistics

Number of Valid Samples	70	Number of Unique Samples	63

Raw Statistics		Log-transformed Statistics	
Minimum	3490	Minimum of Log Data	8.158
Maximum	29300	Maximum of Log Data	10.29
Mean	12171	Mean of log Data	9.292
Median	11450	SD of log Data	0.501
SD	5661		
Coefficient of Variation	0.465		
Skewness	0.615		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.102	Lilliefors Test Statistic	0.0855
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	13299	95% H-UCL	13752
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	15648
95% Adjusted-CLT UCL	13337	97.5% Chebyshev (MVUE) UCL	17108
95% Modified-t UCL	13307	99% Chebyshev (MVUE) UCL	19977

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	4.319	Data appear Normal at 5% Significance Level
Theta Star	2818	
nu star	604.7	
Approximate Chi Square Value (.05)	548.6	
Adjusted Level of Significance	0.0466	
Adjusted Chi Square Value	547.5	
Anderson-Darling Test Statistic	0.347	
Anderson-Darling 5% Critical Value	0.755	
Kolmogorov-Smirnov Test Statistic	0.0709	
Kolmogorov-Smirnov 5% Critical Value	0.107	
Data appear Gamma Distributed at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	13284
95% Jackknife UCL	13299
95% Standard Bootstrap UCL	13293
95% Bootstrap-t UCL	13322
95% Hall's Bootstrap UCL	13323
95% Percentile Bootstrap UCL	13285
95% BCA Bootstrap UCL	13355
95% Chebyshev(Mean, Sd) UCL	15120
97.5% Chebyshev(Mean, Sd) UCL	16396
99% Chebyshev(Mean, Sd) UCL	18903

Assuming Gamma Distribution	
95% Approximate Gamma UCL	13414
95% Adjusted Gamma UCL	13441

Potential UCL to Use	Use 95% Student's-t UCL 13299

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Antimony

General Statistics

Number of Valid Samples	70	Number of Detected Data	4
Number of Unique Samples	4	Number of Non-Detect Data	66
		Percent Non-Detects	94.29%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	1.2	Minimum Detected	0.182
Maximum Detected	6	Maximum Detected	1.792
Mean of Detected	4.1	Mean of Detected	1.252
SD of Detected	2.101	SD of Detected	0.733
Minimum Non-Detect	1.1	Minimum Non-Detect	0.0953
Maximum Non-Detect	13	Maximum Non-Detect	2.565

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	70
Number treated as Detected	0
Single DL Non-Detect Percentage	100.00%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.925	Lilliefors Test Statistic	0.821
5% Lilliefors Critical Value	0.748	5% Lilliefors Critical Value	0.748
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	2.094	Mean	0.381
SD	1.801	SD	0.849
95% DL/2 (t) UCL	2.453	95% H-Stat (DL/2) UCL	2.607
Maximum Likelihood Estimate(MLE) Method	N/A	Robust ROS Method	
		Mean in Log Scale	-1.428
		SD in Log Scale	0.937
		Mean in Original Scale	0.468
		SD in Original Scale	1.013
		95% Percentile Bootstrap UCL	0.684
		95% BCA Bootstrap UCL	0.741

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	0.994	Data appear Normal at 5% Significance Level
Theta Star	4.127	
nu star	7.948	
A-D Test Statistic	0.456	
5% A-D Critical Value	0.659	
K-S Test Statistic	0.659	
5% K-S Critical Value	0.396	
Data appear Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	N/A	Mean	1.426
Maximum	N/A	SD	0.921
Mean	N/A	SE of Mean	0.148
Median	N/A	95% KM (t) UCL	1.672
SD	N/A	95% KM (z) UCL	1.668
k star	N/A	95% KM (jackknife) UCL	3.169
Theta star	N/A	95% KM (bootstrap t) UCL	1.545
Nu star	N/A	95% KM (BCA) UCL	6
AppChi2	N/A	95% KM (percentile) UCL	5.24
95% Gamma Approximate UCL	N/A	95% KM (Chebyshev) UCL	2.069
95% Adjusted Gamma UCL	N/A	97.5% KM (Chebyshev) UCL	2.347
		99% KM (Chebyshev) UCL	2.894
		Potential UCLs to Use	
		95% KM (t) UCL	1.672
		95% KM (Percentile Bootstrap) UCL	5.24

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Arsenic

General Statistics

Number of Valid Samples	70	Number of Unique Samples	69

Raw Statistics		Log-transformed Statistics	
Minimum	1.5	Minimum of Log Data	0.405
Maximum	5460	Maximum of Log Data	8.605
Mean	256.7	Mean of log Data	3.581
Median	40.05	SD of log Data	1.838
SD	868.8		
Coefficient of Variation	3.384		
Skewness	4.954		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.4	Lilliefors Test Statistic	0.0551
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	429.8	95% H-UCL	394.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	440.7
95% Adjusted-CLT UCL	493.2	97.5% Chebyshev (MVUE) UCL	552.3
95% Modified-t UCL	440.1	99% Chebyshev (MVUE) UCL	771.5

Gamma Distribution Test		Nonparametric Test	
k star (bias corrected)	0.338	Data appear Lognormal at 5% Significance Level	
Theta Star	759.8		
nu star	47.3		
Approximate Chi Square Value (.05)	32.52	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0466	95% CLT UCL	427.5
Adjusted Chi Square Value	32.26	95% Jackknife UCL	429.8
		95% Standard Bootstrap UCL	425.4
Anderson-Darling Test Statistic	5.456	95% Bootstrap-t UCL	694.8
Anderson-Darling 5% Critical Value	0.855	95% Hall's Bootstrap UCL	496
Kolmogorov-Smirnov Test Statistic	0.222	95% Percentile Bootstrap UCL	444.3
Kolmogorov-Smirnov 5% Critical Value	0.115	95% BCA Bootstrap UCL	493.4
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	709.3
		97.5% Chebyshev(Mean, Sd) UCL	905.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1290
95% Approximate Gamma UCL	373.4		
95% Adjusted Gamma UCL	376.4		
Potential UCL to Use		Use 95% H-UCL	394.8

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Barium

General Statistics

Number of Valid Samples	70	Number of Unique Samples	69

Raw Statistics		Log-transformed Statistics	
Minimum	72.2	Minimum of Log Data	4.279
Maximum	18700	Maximum of Log Data	9.836
Mean	5749	Mean of log Data	8.094
Median	4545	SD of log Data	1.31
SD	4850		
Coefficient of Variation	0.844		
Skewness	0.855		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.121	Lilliefors Test Statistic	0.148
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	6715	95% H-UCL	11590
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	14222
95% Adjusted-CLT UCL	6765	97.5% Chebyshev (MVUE) UCL	17108
95% Modified-t UCL	6725	99% Chebyshev (MVUE) UCL	22776

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	0.989	Data appear Gamma Distributed at 5% Significance Level
Theta Star	5814	
nu star	138.4	
Approximate Chi Square Value (.05)	112.2	**Nonparametric Statistics**
Adjusted Level of Significance	0.0466	95% CLT UCL 6702
Adjusted Chi Square Value	111.7	95% Jackknife UCL 6715
		95% Standard Bootstrap UCL 6714
Anderson-Darling Test Statistic	0.618	95% Bootstrap-t UCL 6791
Anderson-Darling 5% Critical Value	0.78	95% Hall's Bootstrap UCL 6768
Kolmogorov-Smirnov Test Statistic	0.0788	95% Percentile Bootstrap UCL 6711
Kolmogorov-Smirnov 5% Critical Value	0.109	95% BCA Bootstrap UCL 6759
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 8275
		97.5% Chebyshev(Mean, Sd) UCL 9369
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 11516
95% Approximate Gamma UCL	7090	
95% Adjusted Gamma UCL	7121	
Potential UCL to Use		Use 95% Approximate Gamma UCL 7090

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Cadmium

General Statistics

Number of Valid Samples	70	Number of Detected Data	56
Number of Unique Samples	51	Number of Non-Detect Data	14
		Percent Non-Detects	20.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.62	Minimum Detected	-0.478
Maximum Detected	240	Maximum Detected	5.481
Mean of Detected	28.55	Mean of Detected	2.443
SD of Detected	41.4	SD of Detected	1.514
Minimum Non-Detect	0.53	Minimum Non-Detect	-0.635
Maximum Non-Detect	1.9	Maximum Non-Detect	0.642

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	23
Number treated as Detected	47
Single DL Non-Detect Percentage	32.86%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.25	Lilliefors Test Statistic	0.11
5% Lilliefors Critical Value	0.118	5% Lilliefors Critical Value	0.118
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	22.93	Mean	1.767
SD	38.66	SD	1.929
95% DL/2 (t) UCL	30.63	95% H-Stat (DL/2) UCL	81.22
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	11.12	Mean in Log Scale	1.814
SD	50.58	SD in Log Scale	1.86
95% MLE (t) UCL	21.2	Mean in Original Scale	22.95
95% MLE (Tiku) UCL	21.84	SD in Original Scale	38.65
		95% Percentile Bootstrap UCL	31.18
		95% BCA Bootstrap UCL	32.96

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	0.645	Data appear Gamma Distributed at 5% Significance Level
Theta Star	44.25	
nu star	72.26	
A-D Test Statistic	0.626	
5% A-D Critical Value	0.8	
K-S Test Statistic	0.8	
5% K-S Critical Value	0.124	
Data appear Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0	Mean	22.97
Maximum	240	SD	38.36
Mean	22.71	SE of Mean	4.626
Median	7.05	95% KM (t) UCL	30.69
SD	38.79	95% KM (z) UCL	30.58
k star	0.107	95% KM (jackknife) UCL	30.66
Theta star	212.6	95% KM (bootstrap t) UCL	34.67
Nu star	14.96	95% KM (BCA) UCL	31.66
AppChi2	7.233	95% KM (percentile) UCL	30.92
95% Gamma Approximate UCL	46.97	95% KM (Chebyshev) UCL	43.14
95% Adjusted Gamma UCL	47.72	97.5% KM (Chebyshev) UCL	51.86
		99% KM (Chebyshev) UCL	69
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	43.14

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Chromium, Hexavalent

General Statistics

Number of Valid Samples	30	Number of Detected Data	11
Number of Unique Samples	11	Number of Non-Detect Data	19
		Percent Non-Detects	63.33%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	1.9	Minimum Detected	0.642
Maximum Detected	7.5	Maximum Detected	2.015
Mean of Detected	4.555	Mean of Detected	1.427
SD of Detected	1.911	SD of Detected	0.456
Minimum Non-Detect	1.3	Minimum Non-Detect	0.262
Maximum Non-Detect	6.4	Maximum Non-Detect	1.856

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	28
Number treated as Detected	2
Single DL Non-Detect Percentage	93.33%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.923	Shapiro Wilk Test Statistic	0.921
5% Shapiro Wilk Critical Value	0.85	5% Shapiro Wilk Critical Value	0.85
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	2.618	Mean	0.709
SD	1.964	SD	0.721
95% DL/2 (t) UCL	3.227	95% H-Stat (DL/2) UCL	3.505
Maximum Likelihood Estimate(MLE) Method	N/A	Robust ROS Method	
		Mean in Log Scale	0.763
		SD in Log Scale	0.603
		Mean in Original Scale	2.613
		SD in Original Scale	1.889
		95% Percentile Bootstrap UCL	3.214
		95% BCA Bootstrap UCL	3.316

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	4.256	Data appear Normal at 5% Significance Level
Theta Star	1.07	
nu star	93.64	
A-D Test Statistic	0.463	
5% A-D Critical Value	0.731	
K-S Test Statistic	0.731	
5% K-S Critical Value	0.256	
Data appear Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	N/A	Mean	2.967
Maximum	N/A	SD	1.689
Mean	N/A	SE of Mean	0.333
Median	N/A	95% KM (t) UCL	3.533
SD	N/A	95% KM (z) UCL	3.515
k star	N/A	95% KM (jackknife) UCL	3.493
Theta star	N/A	95% KM (bootstrap t) UCL	3.607
Nu star	N/A	95% KM (BCA) UCL	4.134
AppChi2	N/A	95% KM (percentile) UCL	3.884
95% Gamma Approximate UCL	N/A	95% KM (Chebyshev) UCL	4.419
95% Adjusted Gamma UCL	N/A	97.5% KM (Chebyshev) UCL	5.047
		99% KM (Chebyshev) UCL	6.28
		Potential UCLs to Use	
		95% KM (t) UCL	3.533
		95% KM (Percentile Bootstrap) UCL	3.884

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Cobalt

General Statistics

Number of Valid Samples	70	Number of Detected Data	32
Number of Unique Samples	24	Number of Non-Detect Data	38
		Percent Non-Detects	54.29%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	6.1	Minimum Detected	1.808
Maximum Detected	26.1	Maximum Detected	3.262
Mean of Detected	10.82	Mean of Detected	2.298
SD of Detected	4.909	SD of Detected	0.399
Minimum Non-Detect	5.4	Minimum Non-Detect	1.686
Maximum Non-Detect	32	Maximum Non-Detect	3.466

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	70
Number treated as Detected	0
Single DL Non-Detect Percentage	100.00%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.836	Lilliefors Test Statistic	0.909
5% Lilliefors Critical Value	0.93	5% Lilliefors Critical Value	0.93
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	8.813	Mean	2.027
SD	4.865	SD	0.561
95% DL/2 (t) UCL	9.783	95% H-Stat (DL/2) UCL	10.09
Maximum Likelihood Estimate(MLE) Method	N/A	Robust ROS Method	
		Mean in Log Scale	2.017
		SD in Log Scale	0.423
		Mean in Original Scale	8.284
		SD in Original Scale	4.228
		95% Percentile Bootstrap UCL	9.146
		95% BCA Bootstrap UCL	9.289

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	5.601	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.932	
nu star	358.4	
A-D Test Statistic	1.209	
5% A-D Critical Value	0.748	
K-S Test Statistic	0.748	
5% K-S Critical Value	0.156	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution	
Gamma ROS Statistics using Extrapolated Data	
Minimum	N/A
Maximum	N/A
Mean	N/A
Median	N/A
SD	N/A
k star	N/A
Theta star	N/A
Nu star	N/A
AppChi2	N/A
95% Gamma Approximate UCL	N/A
95% Adjusted Gamma UCL	N/A

Nonparametric Statistics	
Kaplan-Meier (KM) Method	
Mean	8.948
SD	4.132
SE of Mean	0.553
95% KM (t) UCL	9.87
95% KM (z) UCL	9.857
95% KM (jackknife) UCL	9.826
95% KM (bootstrap t) UCL	10.08
95% KM (BCA) UCL	9.984
95% KM (percentile) UCL	9.895
95% KM (Chebyshev) UCL	11.36
97.5% KM (Chebyshev) UCL	12.4
99% KM (Chebyshev) UCL	14.45
Potential UCLs to Use	
95% KM (t) UCL	9.87
95% KM (% Bootstrap) UCL	9.895

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Copper

General Statistics

Number of Valid Samples	70	Number of Unique Samples	68

Raw Statistics		Log-transformed Statistics	
Minimum	10.3	Minimum of Log Data	2.332
Maximum	1100	Maximum of Log Data	7.003
Mean	212.8	Mean of log Data	4.767
Median	122.5	SD of log Data	1.144
SD	242.4		
Coefficient of Variation	1.139		
Skewness	1.986		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.202	Lilliefors Test Statistic	0.0773
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	261.1	95% H-UCL	315
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	387.5
95% Adjusted-CLT UCL	267.8	97.5% Chebyshev (MVUE) UCL	458.6
95% Modified-t UCL	262.2	99% Chebyshev (MVUE) UCL	598.4

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	0.944	Data appear Lognormal at 5% Significance Level
Theta Star	225.5	
nu star	132.1	
Approximate Chi Square Value (.05)	106.6	
Adjusted Level of Significance	0.0466	
Adjusted Chi Square Value	106.1	
Anderson-Darling Test Statistic	1.003	
Anderson-Darling 5% Critical Value	0.782	
Kolmogorov-Smirnov Test Statistic	0.127	
Kolmogorov-Smirnov 5% Critical Value	0.11	
Data not Gamma Distributed at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	260.4
95% Jackknife UCL	261.1
95% Standard Bootstrap UCL	258.8
95% Bootstrap-t UCL	269.7
95% Hall's Bootstrap UCL	268.9
95% Percentile Bootstrap UCL	260.5
95% BCA Bootstrap UCL	270
95% Chebyshev(Mean, Sd) UCL	339.1
97.5% Chebyshev(Mean, Sd) UCL	393.7
99% Chebyshev(Mean, Sd) UCL	501.1

Assuming Gamma Distribution	
95% Approximate Gamma UCL	263.8
95% Adjusted Gamma UCL	265

Potential UCL to Use		Use 95% H-UCL	315

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Iron

General Statistics

Number of Valid Samples	70	Number of Unique Samples	64

Raw Statistics

Minimum	5650
Maximum	247000
Mean	33327
Median	23350
SD	42291
Coefficient of Variation	1.269
Skewness	4.006

Log-transformed Statistics

Minimum of Log Data	8.639
Maximum of Log Data	12.42
Mean of log Data	10.05
SD of log Data	0.777

Relevant UCL Statistics

Normal Distribution Test

Lilliefors Test Statistic	0.283
Lilliefors Critical Value	0.106

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Lilliefors Test Statistic	0.0874
Lilliefors Critical Value	0.106

Data appear Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	41755
95% UCLs (Adjusted for Skewness)	
95% Adjusted-CLT UCL	44227
95% Modified-t UCL	42158

Assuming Lognormal Distribution

95% H-UCL	37926
95% Chebyshev (MVUE) UCL	45257
97.5% Chebyshev (MVUE) UCL	51370
99% Chebyshev (MVUE) UCL	63378

Gamma Distribution Test

k star (bias corrected)	1.461
Theta Star	22811
nu star	204.5
Approximate Chi Square Value (.05)	172.5
Adjusted Level of Significance	0.0466
Adjusted Chi Square Value	171.8
Anderson-Darling Test Statistic	2.37
Anderson-Darling 5% Critical Value	0.769
Kolmogorov-Smirnov Test Statistic	0.148
Kolmogorov-Smirnov 5% Critical Value	0.108

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	39530
95% Adjusted Gamma UCL	39671

Nonparametric Test

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

95% CLT UCL	41642
95% Jackknife UCL	41755
95% Standard Bootstrap UCL	41426
95% Bootstrap-t UCL	49531
95% Hall's Bootstrap UCL	52091
95% Percentile Bootstrap UCL	42108
95% BCA Bootstrap UCL	45502
95% Chebyshev(Mean, Sd) UCL	55360
97.5% Chebyshev(Mean, Sd) UCL	64894
99% Chebyshev(Mean, Sd) UCL	83621

Potential UCL to Use

Use 95% H-UCL 37926

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Lead

General Statistics

Number of Valid Samples	70	Number of Unique Samples	66

Raw Statistics		Log-transformed Statistics	
Minimum	9.2	Minimum of Log Data	2.219
Maximum	3950	Maximum of Log Data	8.281
Mean	417.9	Mean of log Data	5.289
Median	218.5	SD of log Data	1.29
SD	614.2		
Coefficient of Variation	1.47		
Skewness	3.602		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.253	Lilliefors Test Statistic	0.0629
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	540.3	95% H-UCL	677.2
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	831.7
95% Adjusted-CLT UCL	572.4	97.5% Chebyshev (MVUE) UCL	998.6
95% Modified-t UCL	545.6	99% Chebyshev (MVUE) UCL	1326

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	0.771	Data Follow Appr. Gamma Distribution at 5% Significance Level
Theta Star	541.7	
nu star	108	
Approximate Chi Square Value (.05)	85.02	
Adjusted Level of Significance	0.0466	
Adjusted Chi Square Value	84.59	
Anderson-Darling Test Statistic	0.797	
Anderson-Darling 5% Critical Value	0.79	
Kolmogorov-Smirnov Test Statistic	0.0873	
Kolmogorov-Smirnov 5% Critical Value	0.11	
Data follow Appr. Gamma Distribution at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	538.7
95% Jackknife UCL	540.3
95% Standard Bootstrap UCL	536.9
95% Bootstrap-t UCL	610.8
95% Hall's Bootstrap UCL	662
95% Percentile Bootstrap UCL	550.5
95% BCA Bootstrap UCL	582.6
95% Chebyshev(Mean, Sd) UCL	737.9
97.5% Chebyshev(Mean, Sd) UCL	876.3
99% Chebyshev(Mean, Sd) UCL	1148

Assuming Gamma Distribution	
95% Approximate Gamma UCL	530.9
95% Adjusted Gamma UCL	533.6

Potential UCL to Use	Use 95% Approximate Gamma UCL 530.9

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Manganese

General Statistics

Number of Valid Samples	70	Number of Unique Samples	66

Raw Statistics		Log-transformed Statistics	
Minimum	38.7	Minimum of Log Data	3.656
Maximum	1300	Maximum of Log Data	7.17
Mean	245.3	Mean of log Data	5.214
Median	195.5	SD of log Data	0.741
SD	233.6		
Coefficient of Variation	0.953		
Skewness	3.031		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.235	Lilliefors Test Statistic	0.0803
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	291.9	95% H-UCL	289.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	343.7
95% Adjusted-CLT UCL	302	97.5% Chebyshev (MVUE) UCL	388.4
95% Modified-t UCL	293.5	99% Chebyshev (MVUE) UCL	476

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	1.811	Data appear Lognormal at 5% Significance Level
Theta Star	135.4	
nu star	253.6	
Approximate Chi Square Value (.05)	217.7	
Adjusted Level of Significance	0.0466	
Adjusted Chi Square Value	217	
Anderson-Darling Test Statistic	1.284	
Anderson-Darling 5% Critical Value	0.765	
Kolmogorov-Smirnov Test Statistic	0.127	
Kolmogorov-Smirnov 5% Critical Value	0.108	
Data not Gamma Distributed at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	291.2
95% Jackknife UCL	291.9
95% Standard Bootstrap UCL	290.7
95% Bootstrap-t UCL	313.6
95% Hall's Bootstrap UCL	318.6
95% Percentile Bootstrap UCL	290.7
95% BCA Bootstrap UCL	306
95% Chebyshev(Mean, Sd) UCL	367
97.5% Chebyshev(Mean, Sd) UCL	419.7
99% Chebyshev(Mean, Sd) UCL	523.2

Assuming Gamma Distribution	
95% Approximate Gamma UCL	285.7
95% Adjusted Gamma UCL	286.6

Potential UCL to Use	Use 95% H-UCL 289.6

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-Metal_Mercury

General Statistics

Number of Valid Observations	74	Number of Distinct Observations	69

Raw Statistics		Log-transformed Statistics	
Minimum	0.38	Minimum of Log Data	-0.968
Maximum	3050	Maximum of Log Data	8.023
Mean	322	Mean of log Data	4.393
Median	151.5	SD of log Data	2.125
SD	598.1		
Coefficient of Variation	1.857		
Skewness	3.194		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.324	Lilliefors Test Statistic	0.164
Lilliefors Critical Value	0.103	Lilliefors Critical Value	0.103
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	437.9	95% H-UCL	1882
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1896
95% Adjusted-CLT UCL	464	97.5% Chebyshev (MVUE) UCL	2412
95% Modified-t UCL	442.2	99% Chebyshev (MVUE) UCL	3424

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.455	Data do not follow a Discernable Distribution (0.05)
Theta Star	707.7	
MLE of Mean	322	
MLE of Standard Deviation	477.4	
nu star	67.34	
Approximate Chi Square Value (.05)	49.46	
Adjusted Level of Significance	0.0468	
Adjusted Chi Square Value	49.15	
Anderson-Darling Test Statistic	1.734	
Anderson-Darling 5% Critical Value	0.826	
Kolmogorov-Smirnov Test Statistic	0.147	
Kolmogorov-Smirnov 5% Critical Value	0.11	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
95% Approximate Gamma UCL	438.5	95% CLT UCL	436.4
95% Adjusted Gamma UCL	441.2	95% Jackknife UCL	437.9
		95% Standard Bootstrap UCL	434.9
		95% Bootstrap-t UCL	484.2
		95% Hall's Bootstrap UCL	446.9
		95% Percentile Bootstrap UCL	436.2
		95% BCA Bootstrap UCL	469.5
		95% Chebyshev(Mean, Sd) UCL	625.1
		97.5% Chebyshev(Mean, Sd) UCL	756.2
		99% Chebyshev(Mean, Sd) UCL	1014
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1014

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Vanadium

General Statistics

Number of Valid Samples	70	Number of Unique Samples	65

Raw Statistics		Log-transformed Statistics	
Minimum	10.6	Minimum of Log Data	2.361
Maximum	129	Maximum of Log Data	4.86
Mean	42.44	Mean of log Data	3.528
Median	35.65	SD of log Data	0.674
SD	28.91		
Coefficient of Variation	0.681		
Skewness	1.108		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.139	Lilliefors Test Statistic	0.0744
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	48.2	95% H-UCL	50.14
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	58.9
95% Adjusted-CLT UCL	48.62	97.5% Chebyshev (MVUE) UCL	65.97
95% Modified-t UCL	48.28	99% Chebyshev (MVUE) UCL	79.87

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	2.326	Data Follow Appr. Gamma Distribution at 5% Significance Level
Theta Star	18.25	
nu star	325.6	
Approximate Chi Square Value (.05)	284.8	
Adjusted Level of Significance	0.0466	
Adjusted Chi Square Value	284	
Anderson-Darling Test Statistic	0.849	
Anderson-Darling 5% Critical Value	0.761	
Kolmogorov-Smirnov Test Statistic	0.101	
Kolmogorov-Smirnov 5% Critical Value	0.107	
Data follow Appr. Gamma Distribution at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	48.13
95% Jackknife UCL	48.2
95% Standard Bootstrap UCL	48.2
95% Bootstrap-t UCL	48.83
95% Hall's Bootstrap UCL	48.77
95% Percentile Bootstrap UCL	48.51
95% BCA Bootstrap UCL	48.34
95% Chebyshev(Mean, Sd) UCL	57.5
97.5% Chebyshev(Mean, Sd) UCL	64.02
99% Chebyshev(Mean, Sd) UCL	76.82

Assuming Gamma Distribution	
95% Approximate Gamma UCL	48.53
95% Adjusted Gamma UCL	48.66

Potential UCL to Use	Use 95% Approximate Gamma UCL 48.53

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-METAL_Zinc

General Statistics

Number of Valid Samples	70	Number of Unique Samples	67

Raw Statistics		Log-transformed Statistics	
Minimum	27.3	Minimum of Log Data	3.307
Maximum	8020	Maximum of Log Data	8.99
Mean	1219	Mean of log Data	6.274
Median	658.5	SD of log Data	1.41
SD	1655		
Coefficient of Variation	1.358		
Skewness	2.402		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.241	Lilliefors Test Statistic	0.0846
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1549	95% H-UCL	2263
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2757
95% Adjusted-CLT UCL	1605	97.5% Chebyshev (MVUE) UCL	3346
95% Modified-t UCL	1558	99% Chebyshev (MVUE) UCL	4503

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	0.702	Data appear Gamma Distributed at 5% Significance Level
Theta Star	1738	
nu star	98.21	
Approximate Chi Square Value (.05)	76.35	
Adjusted Level of Significance	0.0466	
Adjusted Chi Square Value	75.95	
Anderson-Darling Test Statistic	0.776	
Anderson-Darling 5% Critical Value	0.795	
Kolmogorov-Smirnov Test Statistic	0.0946	
Kolmogorov-Smirnov 5% Critical Value	0.111	
Data appear Gamma Distributed at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	1544
95% Jackknife UCL	1549
95% Standard Bootstrap UCL	1542
95% Bootstrap-t UCL	1643
95% Hall's Bootstrap UCL	1627
95% Percentile Bootstrap UCL	1557
95% BCA Bootstrap UCL	1636
95% Chebyshev(Mean, Sd) UCL	2081
97.5% Chebyshev(Mean, Sd) UCL	2454
99% Chebyshev(Mean, Sd) UCL	3187

Assuming Gamma Distribution	
95% Approximate Gamma UCL	1568
95% Adjusted Gamma UCL	1577

Potential UCL to Use	Use 95% Approximate Gamma UCL 1568

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-PCB_Total PCBs

General Statistics

Number of Valid Samples	70	Number of Unique Samples	54

Raw Statistics		Log-transformed Statistics	
Minimum	0.0144	Minimum of Log Data	-4.244
Maximum	2.739	Maximum of Log Data	1.007
Mean	0.182	Mean of log Data	-2.849
Median	0.0381	SD of log Data	1.259
SD	0.451		
Coefficient of Variation	2.473		
Skewness	4.417		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.368	Lilliefors Test Statistic	0.203
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.272	95% H-UCL	0.187
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.23
95% Adjusted-CLT UCL	0.301	97.5% Chebyshev (MVUE) UCL	0.276
95% Modified-t UCL	0.277	99% Chebyshev (MVUE) UCL	0.365

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	0.532	Data do not follow a Discernable Distribution (0.05)
Theta Star	0.342	
nu star	74.54	
Approximate Chi Square Value (.05)	55.66	
Adjusted Level of Significance	0.0466	
Adjusted Chi Square Value	55.31	
Anderson-Darling Test Statistic	7.992	
Anderson-Darling 5% Critical Value	0.812	
Kolmogorov-Smirnov Test Statistic	0.319	
Kolmogorov-Smirnov 5% Critical Value	0.112	
Data not Gamma Distributed at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	0.271
95% Jackknife UCL	0.272
95% Standard Bootstrap UCL	0.269
95% Bootstrap-t UCL	0.367
95% Hall's Bootstrap UCL	0.561
95% Percentile Bootstrap UCL	0.282
95% BCA Bootstrap UCL	0.316
95% Chebyshev(Mean, Sd) UCL	0.417
97.5% Chebyshev(Mean, Sd) UCL	0.519
99% Chebyshev(Mean, Sd) UCL	0.718

Assuming Gamma Distribution	
95% Approximate Gamma UCL	0.244
95% Adjusted Gamma UCL	0.246

Potential UCL to Use	Use 97.5% Chebyshev (Mean, Sd) UCL 0.519

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-Dioxin_Dioxin 2,3,7,8-TCDD TEQ

General Statistics

Number of Valid Samples	18	Number of Unique Samples	18

Raw Statistics

Minimum	0
Maximum	9.47E-05
Mean	1.32E-05
Median	0
SD	2.23E-05
Coefficient of Variation	1.682
Skewness	3.256

Log-transformed Statistics

Minimum of Log Data	-13.69
Maximum of Log Data	-9.265
Mean of log Data	-11.95
SD of log Data	1.106

Relevant UCL Statistics

Normal Distribution Test

Shapiro Wilk Test Statistic	0.542
Shapiro Wilk Critical Value	0.897

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.942
Shapiro Wilk Critical Value	0.897

Data appear Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	2.24E-05

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	2.62E-05
95% Modified-t UCL	2.31E-05

Assuming Lognormal Distribution

95% H-UCL	2.54E-05
95% Chebyshev (MVUE) UCL	2.59E-05
97.5% Chebyshev (MVUE) UCL	3.22E-05
99% Chebyshev (MVUE) UCL	4.46E-05

Gamma Distribution Test

k star (bias corrected)	0.726
Theta Star	1.83E-05
nu star	26.13
Approximate Chi Square Value (.05)	15.48
Adjusted Level of Significance	0.0357
Adjusted Chi Square Value	14.69
Anderson-Darling Test Statistic	1.216
Anderson-Darling 5% Critical Value	0.774
Kolmogorov-Smirnov Test Statistic	0.235
Kolmogorov-Smirnov 5% Critical Value	0.211

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	2.24E-05
95% Adjusted Gamma UCL	2.36E-05

Nonparametric Test

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

95% CLT UCL	2.19E-05
95% Jackknife UCL	2.24E-05
95% Standard Bootstrap UCL	2.16E-05
95% Bootstrap-t UCL	4.24E-05
95% Hall's Bootstrap UCL	5.27E-05
95% Percentile Bootstrap UCL	2.25E-05
95% BCA Bootstrap UCL	2.87E-05
95% Chebyshev(Mean, Sd) UCL	3.61E-05
97.5% Chebyshev(Mean, Sd) UCL	4.61E-05
99% Chebyshev(Mean, Sd) UCL	6.55E-05

Potential UCL to Use

Use 95% Chebyshev (MVUE) UCL 2.59E-05

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-Furan_Furan 2,3,7,8-TCDD TEQ

General Statistics

Number of Valid Samples	18	Number of Unique Samples	18

Raw Statistics

Minimum	0
Maximum	0.000195
Mean	6.64E-05
Median	4.4E-05
SD	6.44E-05
Coefficient of Variation	0.97
Skewness	0.847

Log-transformed Statistics

Minimum of Log Data	-13.01
Maximum of Log Data	-8.541
Mean of log Data	-10.33
SD of log Data	1.467

Relevant UCL Statistics

Normal Distribution Test

Shapiro Wilk Test Statistic	0.865
Shapiro Wilk Critical Value	0.897

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.911
Shapiro Wilk Critical Value	0.897

Data appear Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	9.28E-05

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	9.46E-05
95% Modified-t UCL	9.33E-05

Assuming Lognormal Distribution

95% H-UCL	0.000321
95% Chebyshev (MVUE) UCL	0.000237
97.5% Chebyshev (MVUE) UCL	0.000303
99% Chebyshev (MVUE) UCL	0.000431

Gamma Distribution Test

k star (bias corrected)	0.727
Theta Star	9.13E-05
nu star	26.16
Approximate Chi Square Value (.05)	15.51
Adjusted Level of Significance	0.0357
Adjusted Chi Square Value	14.72
Anderson-Darling Test Statistic	0.327
Anderson-Darling 5% Critical Value	0.774
Kolmogorov-Smirnov Test Statistic	0.122
Kolmogorov-Smirnov 5% Critical Value	0.211

Data appear Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	0.000112
95% Adjusted Gamma UCL	0.000118

Nonparametric Test

Data appear Gamma Distributed at 5% Significance Level

Nonparametric Statistics

95% CLT UCL	9.13E-05
95% Jackknife UCL	9.28E-05
95% Standard Bootstrap UCL	9.11E-05
95% Bootstrap-t UCL	9.72E-05
95% Hall's Bootstrap UCL	9.16E-05
95% Percentile Bootstrap UCL	9.23E-05
95% BCA Bootstrap UCL	9.45E-05
95% Chebyshev(Mean, Sd) UCL	0.000133
97.5% Chebyshev(Mean, Sd) UCL	0.000161
99% Chebyshev(Mean, Sd) UCL	0.000217

Potential UCL to Use

Use 95% Approximate Gamma UCL 0.000112

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-SVOC_Benzo(a)pyrene TEQ

General Statistics

Number of Valid Samples	70	Number of Unique Samples	70

Raw Statistics		Log-transformed Statistics	
Minimum	0.025	Minimum of Log Data	-3.691
Maximum	4.459	Maximum of Log Data	1.495
Mean	0.476	Mean of log Data	-1.427
Median	0.208	SD of log Data	1.103
SD	0.77		
Coefficient of Variation	1.615		
Skewness	3.51		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.279	Lilliefors Test Statistic	0.0937
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.63	95% H-UCL	0.603
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.741
95% Adjusted-CLT UCL	0.669	97.5% Chebyshev (MVUE) UCL	0.873
95% Modified-t UCL	0.636	99% Chebyshev (MVUE) UCL	1.133

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	0.831	Data appear Lognormal at 5% Significance Level
Theta Star	0.573	
nu star	116.3	
Approximate Chi Square Value (.05)	92.43	
Adjusted Level of Significance	0.0466	
Adjusted Chi Square Value	91.99	
Anderson-Darling Test Statistic	2.912	
Anderson-Darling 5% Critical Value	0.787	
Kolmogorov-Smirnov Test Statistic	0.158	
Kolmogorov-Smirnov 5% Critical Value	0.11	
Data not Gamma Distributed at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	0.628
95% Jackknife UCL	0.63
95% Standard Bootstrap UCL	0.627
95% Bootstrap-t UCL	0.706
95% Hall's Bootstrap UCL	0.698
95% Percentile Bootstrap UCL	0.638
95% BCA Bootstrap UCL	0.687
95% Chebyshev(Mean, Sd) UCL	0.877
97.5% Chebyshev(Mean, Sd) UCL	1.051
99% Chebyshev(Mean, Sd) UCL	1.392

Assuming Gamma Distribution	
95% Approximate Gamma UCL	0.6
95% Adjusted Gamma UCL	0.602

Potential UCL to Use		Use 95% H-UCL	0.603

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-SVOC_1,4-Dichlorobenzene

General Statistics

Number of Valid Samples	70	Number of Detected Data	21
Number of Unique Samples	21	Number of Non-Detect Data	49
		Percent Non-Detects	70.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0031	Minimum Detected	-5.776
Maximum Detected	15.1	Maximum Detected	2.715
Mean of Detected	1.396	Mean of Detected	-2.294
SD of Detected	3.801	SD of Detected	2.505
Minimum Non-Detect	0.00081	Minimum Non-Detect	-7.118
Maximum Non-Detect	0.36	Maximum Non-Detect	-1.022

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	64
Number treated as Detected	6
Single DL Non-Detect Percentage	91.43%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.406	Lilliefors Test Statistic	0.935
5% Lilliefors Critical Value	0.908	5% Lilliefors Critical Value	0.908
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.454	Mean	-3.138
SD	2.139	SD	1.895
95% DL/2 (t) UCL	0.881	95% H-Stat (DL/2) UCL	0.552
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	-14.51	Mean in Log Scale	-5.366
SD	10.74	SD in Log Scale	2.636
95% MLE (t) UCL	-12.36	Mean in Original Scale	0.42
95% MLE (Tiku) UCL	-4.224	SD in Original Scale	2.145
		95% Percentile Bootstrap UCL	0.871
		95% BCA Bootstrap UCL	1.144

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	0.261	Data appear Lognormal at 5% Significance Level
Theta Star	5.351	
nu star	10.96	
A-D Test Statistic	1.542	
5% A-D Critical Value	0.86	
K-S Test Statistic	0.86	
5% K-S Critical Value	0.207	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0	Mean	0.425
Maximum	15.1	SD	2.129
Mean	0.398	SE of Mean	0.261
Median	0	95% KM (t) UCL	0.86
SD	2.149	95% KM (z) UCL	0.854
k star	0.0562	95% KM (jackknife) UCL	0.853
Theta star	7.085	95% KM (bootstrap t) UCL	5.224
Nu star	7.87	95% KM (BCA) UCL	0.912
AppChi2	2.66	95% KM (percentile) UCL	0.911
95% Gamma Approximate UCL	1.178	95% KM (Chebyshev) UCL	1.562
95% Adjusted Gamma UCL	1.207	97.5% KM (Chebyshev) UCL	2.054
		99% KM (Chebyshev) UCL	3.02
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	2.054

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-SVOC_Hexachlorobenzene

General Statistics

Number of Valid Samples	70	Number of Detected Data	7
Number of Unique Samples	6	Number of Non-Detect Data	63
		Percent Non-Detects	90.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0433	Minimum Detected	-3.14
Maximum Detected	0.547	Maximum Detected	-0.603
Mean of Detected	0.17	Mean of Detected	-2.106
SD of Detected	0.173	SD of Detected	0.855
Minimum Non-Detect	0.025	Minimum Non-Detect	-3.689
Maximum Non-Detect	0.58	Maximum Non-Detect	-0.545

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	70
Number treated as Detected	0
Single DL Non-Detect Percentage	100.00%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.706	Lilliefors Test Statistic	0.914
5% Lilliefors Critical Value	0.803	5% Lilliefors Critical Value	0.803
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.065	Mean	-3.071
SD	0.0778	SD	0.737
95% DL/2 (t) UCL	0.0805	95% H-Stat (DL/2) UCL	0.0678
Maximum Likelihood Estimate(MLE) Method	N/A	Robust ROS Method	
		Mean in Log Scale	-4.575
		SD in Log Scale	0.98
		Mean in Original Scale	0.0249
		SD in Original Scale	0.0707
		95% Percentile Bootstrap UCL	0.0394
		95% BCA Bootstrap UCL	0.0496

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	1.028	Data appear Gamma Distributed at 5% Significance Level
Theta Star	0.166	
nu star	14.39	
A-D Test Statistic	0.502	
5% A-D Critical Value	0.72	
K-S Test Statistic	0.72	
5% K-S Critical Value	0.317	
Data appear Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	N/A	Mean	0.0571
Maximum	N/A	SD	0.0641
Mean	N/A	SE of Mean	0.00842
Median	N/A	95% KM (t) UCL	0.0712
SD	N/A	95% KM (z) UCL	0.071
k star	N/A	95% KM (jackknife) UCL	0.0682
Theta star	N/A	95% KM (bootstrap t) UCL	0.0848
Nu star	N/A	95% KM (BCA) UCL	0.147
AppChi2	N/A	95% KM (percentile) UCL	0.129
95% Gamma Approximate UCL	N/A	95% KM (Chebyshev) UCL	0.0938
95% Adjusted Gamma UCL	N/A	97.5% KM (Chebyshev) UCL	0.11
		99% KM (Chebyshev) UCL	0.141
		Potential UCLs to Use	
		95% KM (t) UCL	0.0712

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-VOC_Chlorobenzene

General Statistics

Number of Valid Samples	70	Number of Detected Data	9
Number of Unique Samples	9	Number of Non-Detect Data	61
		Percent Non-Detects	87.14%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0142	Minimum Detected	-4.255
Maximum Detected	120	Maximum Detected	4.787
Mean of Detected	13.96	Mean of Detected	-0.64
SD of Detected	39.78	SD of Detected	2.578
Minimum Non-Detect	0.00058	Minimum Non-Detect	-7.452
Maximum Non-Detect	0.34	Maximum Non-Detect	-1.079

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	66
Number treated as Detected	4
Single DL Non-Detect Percentage	94.29%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.408	Lilliefors Test Statistic	0.942
5% Lilliefors Critical Value	0.829	5% Lilliefors Critical Value	0.829
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.816	Mean	-4.534
SD	14.34	SD	2.356
95% DL/2 (t) UCL	4.673	95% H-Stat (DL/2) UCL	0.517
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	-142.5	Mean in Log Scale	-10.64
SD	89.37	SD in Log Scale	4.311
95% MLE (t) UCL	-124.7	Mean in Original Scale	1.794
95% MLE (Tiku) UCL	-25.62	SD in Original Scale	14.34
		95% Percentile Bootstrap UCL	5.196
		95% BCA Bootstrap UCL	7.036

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	0.221	Data appear Lognormal at 5% Significance Level
Theta Star	63.01	
nu star	3.987	
A-D Test Statistic	1.251	
5% A-D Critical Value	0.837	
K-S Test Statistic	0.837	
5% K-S Critical Value	0.306	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0	Mean	1.807
Maximum	120	SD	14.23
Mean	1.782	SE of Mean	1.804
Median	0	95% KM (t) UCL	4.816
SD	14.34	95% KM (z) UCL	4.775
k star	0.0518	95% KM (jackknife) UCL	4.628
Theta star	34.42	95% KM (bootstrap t) UCL	168.9
Nu star	7.249	95% KM (BCA) UCL	6.92
AppChi2	2.308	95% KM (percentile) UCL	5.249
95% Gamma Approximate UCL	5.598	95% KM (Chebyshev) UCL	9.673
95% Adjusted Gamma UCL	5.742	97.5% KM (Chebyshev) UCL	13.08
		99% KM (Chebyshev) UCL	19.76
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	13.08

ATTACHMENT B
ProUCL Statistical Software Output
South Branch Creek Sediment/Bank Soil (0 to 0.5 ft bgs)
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

SED-VOC_Chloroform

General Statistics

Number of Valid Samples	70	Number of Detected Data	4
Number of Unique Samples	4	Number of Non-Detect Data	66
		Percent Non-Detects	94.29%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0012	Minimum Detected	-6.725
Maximum Detected	0.978	Maximum Detected	-0.0222
Mean of Detected	0.352	Mean of Detected	-3.304
SD of Detected	0.463	SD of Detected	3.357
Minimum Non-Detect	0.00077	Minimum Non-Detect	-7.169
Maximum Non-Detect	0.46	Maximum Non-Detect	-0.777

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	69
Number treated as Detected	1
Single DL Non-Detect Percentage	98.57%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.858	Lilliefors Test Statistic	0.864
5% Lilliefors Critical Value	0.748	5% Lilliefors Critical Value	0.748
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0497	Mean	-4.827
SD	0.133	SD	1.875
95% DL/2 (t) UCL	0.0762	95% H-Stat (DL/2) UCL	0.0972
Maximum Likelihood Estimate(MLE) Method	N/A	Robust ROS Method	
		Mean in Log Scale	-10.17
		SD in Log Scale	2.182
		Mean in Original Scale	0.0202
		SD in Original Scale	0.127
		95% Percentile Bootstrap UCL	0.0481
		95% BCA Bootstrap UCL	0.07

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	0.243	Data appear Normal at 5% Significance Level
Theta Star	1.451	
nu star	1.942	
A-D Test Statistic	0.425	
5% A-D Critical Value	0.704	
K-S Test Statistic	0.704	
5% K-S Critical Value	0.418	
Data appear Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	N/A	Mean	0.0215
Maximum	N/A	SD	0.126
Mean	N/A	SE of Mean	0.0174
Median	N/A	95% KM (t) UCL	0.0505
SD	N/A	95% KM (z) UCL	0.0501
k star	N/A	95% KM (jackknife) UCL	0.0449
Theta star	N/A	95% KM (bootstrap t) UCL	0.0574
Nu star	N/A	95% KM (BCA) UCL	1E+31
AppChi2	N/A	95% KM (percentile) UCL	0.442
95% Gamma Approximate UCL	N/A	95% KM (Chebyshev) UCL	0.0973
95% Adjusted Gamma UCL	N/A	97.5% KM (Chebyshev) UCL	0.13
		99% KM (Chebyshev) UCL	0.194
		Potential UCLs to Use	
		95% KM (t) UCL	0.0505
		95% KM (Percentile Bootstrap) UCL	0.442

ATTACHMENT C

Adult Lead Model

ATTACHMENT C
Adult Lead Model

Lead Toxicokinetics and Health Effects

Lead is a naturally occurring element present in both water and soil. Human exposure occurs primarily through diet, inhalation, drinking water, and ingestion of dirt and paint chips (ATSDR, 1993). The efficiency of lead absorption in the human body is dependent upon the route of exposure, nutritional status, and, importantly, age. Adult humans absorb approximately 10-15% of ingested lead; however, children may absorb up to 50% depending on whether the lead is in the diet, dirt, or paint chips. In addition, more than 90% of lead particles deposited in the respiratory tract are absorbed into the circulation. Dermal absorption of lead is not considered an important exposure pathway as inorganic lead is not efficiently absorbed through the skin (USEPA, 1986)

Three major compartments are used for lead storage in humans: blood, soft tissue (liver, kidneys, brain, and muscle), and bone. Bone comprises the largest component as 95% and 73% of the total body lead burden is contained in the bone for adults and children, respectively. The half-life of lead in bone is more than 20 years whereas the half-life of lead in blood is 25 to 28 days. Blood lead concentrations are in equilibrium with lead concentrations in bone and tissue. Although lead is not metabolized in the body, it may be conjugated with glutathione and excreted through the urine (ATSDR, 1993).

The systemic effects of lead are well-documented. Lead is a multi-targeted toxicant affecting the gastrointestinal tract, hematopoietic system, cardiovascular system, central and peripheral nervous system, kidneys, immune system, and the reproductive system. In adults, noticeable symptoms of subcephalopathic central nervous system effects and peripheral nerve damage occur at PbB concentrations of 40 to 60 μg/dL. Less evident symptoms such as peripheral nerve dysfunction may occur at concentrations of 30 to 50 μg/dL (USEPA, 1994).

Although lead has similar effects in children and adults, children are more sensitive to lead exposure than adults. Irreversible brain damage occurs at blood lead concentrations of 100 μg/dL in adults. PbB concentrations of 80 to 100 μg/dL may cause irreversible brain damage or even death in children. Neuropsychological impairment and cognitive (IQ) deficits have been the focus of many studies in children. Many extensive studies of children unintentionally exposed to lead-impacted environmental media have resulted in a relationship between PbB concentrations and decreased academic performance and cognitive skills. As such, United States Environmental Protection Agency (USEPA) has concluded that no clear threshold for the neurotoxic effects of lead in children exists (USEPA, 1994).

USEPA Adult Lead Model

A risk evaluation for lead differs from the evaluations of other chemicals. The USEPA has not developed a Reference Dose (RfD) for lead because the data suggest that lead is a non-threshold

R2-0006337

ATTACHMENT C
Adult Lead Model

toxicant. Because a RfD would be inappropriate for a non-threshold toxicant, the USEPA has developed alternative methods to understand and evaluate the potential risks associated with exposure to lead-impacted media.

Rather than base human health risk estimates on the calculated intake of a chemical divided by a RfD, potential risks associated with lead are evaluated through the prediction of blood lead (PbB) concentrations. USEPA has developed separate methodologies for estimating risk associated with lead exposure for residents and non-residents. For non-residential exposures, the Adult Lead Model was developed by the USEPA as a method of relating soil lead intake to PbB concentrations in women of childbearing age (USEPA, 2003). This methodology uses a simplified representation of lead biokinetics to predict quasi-steady state PbB concentrations among adults who have a relatively constant exposure patterns. Therefore, this approach is ideal for exposure scenarios resulting from commercial or industrial employment at lead-impacted sites.

Using the USEPA Adult Lead Model (version 5/19/05), PbB concentrations were calculated for four non-residential exposure scenarios: construction worker, default commercial/industrial worker, site-specific worker, and trespasser. Conservative default exposure inputs are available from EPA but the model allows an adjustment if more site-specific data is available. Deviations from default exposure inputs are discussed below. Results are provided in the following tables.

PbB concentrations for non-residential receptors are calculated via the algorithms and inputs presented in the following tables. Geometric Blood Standard Deviation (GSD) and Baseline Blood lead (PbB) are based on the northeast region. all population recommendation from the National Health and Nutrition Examination Survey (NHANES III) as referenced in USEPA guidance (USEPA, 2003). Other site-specific inputs are somewhat limited due to the assumptions used during model development. Assumptions used to develop the model dictate that exposure to lead-impacted soil must be relatively constant in order to validate the use of the biokinetic slope factor (BKSF). The model is applicable only to exposures resulting in an intake over a sufficient duration for the PbB concentration to become nearly constant. Based upon the half-life of lead in blood, constant lead intake over a duration of at least 90 days is necessary to achieve this quasi-steady state of PbB concentrations. Therefore, USEPA's Technical Review Workgroup recommends that the Adult Lead Model not be applied to scenarios in which the exposure frequency (EF) is less than 52 days per year. As a result, trespasser scenario risks cannot be developed directly from the Adult Lead Model. However, as a point of comparison, risks were calculated assuming that exposure was double the site-specific exposure frequency (64 days/year) in order to evaluate this pathway. If the risks for trespassers are acceptable under these exposure parameters, then risks under a less intense exposure scenario is assured.

R2-0006338

ATTACHMENT C
Adult Lead Model

References

Agency for Toxic Substances and Disease Registry (ATSDR) (1993). *Toxicity Profile for Lead*. U.S. Department for Health and Human Services. U.S. Public Health Service. PB93-182475.

USEPA. 1986. Environmental Criteria And Assessment Office, U.S. Environmental Protection Agency. Air Quality Criteria for Lead, EPA 600/8-83-028, June 1986.

USEPA. 1994. Guidance Manual for the IEUBK Model for Lead in Children, EPA PB93-963510 OWSER #9285.7-15-1, February 1994.

USEPA (2003). *USEPA Recommendations of the Technical Review Workgroup for Lead for an Approach to Assessing Risks Associated with Adult Exposure to Lead in Soil*. January 2003, version May 19, 2003.

R2-0006339

ATTACHMENT C
Adult Lead Model

$$PbB_{adult,central} = PbB_{adult,0} + \frac{PbS \times BKSF \times IR_S \times AF_S \times EF_S}{AT}$$

$$PbB_{fetal,0.95} = PbB_{adult,central} \times GSD_{i,adult}^{1.645} \times R_{fetal,maternal}$$

where:

$PbB_{adult,central}$	=	Central estimate of blood lead concentration (µg/dL) in adults (i.e., women of child-bearing age) that have site exposures to soil lead at concentration, PbS.
$PbB_{adult,0}$	=	Typical blood lead concentration (µg/dL) in adults (i.e., women of child-bearing age) in the absence of exposures to the site that is being assessed.
$PbB_{fetal,0.95}$	=	95th percentile fetal blood lead concentration (µg/dL) among fetuses born to women having exposures to site soils.
PbS	=	Exposure point concentration for lead in soil (ug/g).
BKSF	=	Biokinetic slope factor relating (quasi-steady state) increase in typical adult blood lead concentration to average daily lead uptake (µg/dL blood lead increase per µg/day lead uptake).
$GSD_{i,adult}$	=	Estimated value of the individual geometric standard deviation (dimensionless).
$R_{fetal,maternal}$	=	Constant of proportionaTTACality between fetal blood lead concentration at birth and maternal blood lead concentration (dimensionless).
IR_S	=	Intake rate of soil, including both outdoor soil and indoor soil-derived dust (g/day).
AF_S	=	Absolute gastrointestinal absorption fraction for ingested lead in soil and lead in dust derived from soil (dimensionless).
EF_S	=	Exposure frequency for contact with site soils and/or dust derived in part from these soils (days of exposure during the averaging period); may be taken as days per year for continuing, long term exposure.
AT	=	Averaging time; the total period during which soil contact may occur; 365 days/year for continuing long term exposures.

Parameter	Units	Value	Source
$PbB_{adult,0}$	µg/dL	2.0	Plausible range based upon Brody et al., 1994 (USEPA, 2003)
PbS	µg/g	Site-specific	Area-specific exposure point concentration (CT)
BKSF	µg/dL per µg/day	0.4	USEPA, 2003
$GSD_{i,adult}$	--	2.0	NE All Adult NHANES III; USEPA, 2003
$R_{fetal,maternal}$	--	0.9	Based on Goyer, 1990 and Graziano et al, 1990 (USEPA, 2003)
IR_S	g/day	Receptor-specific	(RME)
AF_S	--	0.12	USEPA, 2003
EF_S	day/year	Receptor-specific	(RME)
AT	days	365	USEPA 2003

ATTACHMENT C
Adult Lead Model

Calculation of Blood Lead Concentration for Non-Residential Adults Using the Adult Lead Model
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Calculations of Blood Lead Concentrations (PbBs)
U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee
Version date
05/19/05

Exposure Variable	Description of Exposure Variable	Units	Exposure Scenario and Region for GSDi and PbBo Data from NHANES III Analysis			
			Commercial/ Industrial Worker	Site-Specific Worker	Construction/ Utility Worker	Trespasser
			Northeast/All	Northeast/All	Northeast/All	Northeast/All
PbS	Soil lead concentration	ug/g or ppm	596	596	581	418
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4	0.4	0.4
GSD_i	Geometric standard deviation PbB	--	2.0	2.0	2.0	2.0
PbB_0	Baseline PbB	ug/dL	2.0	2.0	2.0	2.0
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	0.330	0.050
IR_{S+D}	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	--	--
W_S	Weighting factor; fraction of IR_{S+D} ingested as outdoor soil	--	--	--	--	--
K_{SD}	Mass fraction of soil in dust	--	--	--	--	--
$AF_{S, D}$	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12
$EF_{S, D}$	Exposure frequency (same for soil and dust)	days/yr	250	100	60	64
$AT_{S, D}$	Averaging time (same for soil and dust)	days/yr	365	365	365	365
PbB_{adult}	**PbB of adult worker, geometric mean**	**ug/dL**	**3.0**	**2.4**	**3.5**	**2.2**
$PbB_{fetal, 0.95}$	95th percentile PbB among fetuses of adult workers	ug/dL	8.3	6.7	9.8	6.1
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)	ug/dL	10.0	10.0	10.0	10.0
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**	**%**	**2.8%**	**1.3%**	**4.8%**	**0.90%**

[1] Equation 1 does not apportion exposure between soil and dust ingestion (excludes W_S, K_{SD}).
When $IR_S = IR_{S+D}$ and $W_S = 1.0$, the equations yield the same $PbB_{fetal,0.95}$.

ATTACHMENT C
Adult Lead Model

Summary of Predicted Blood Lead Concentrations
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Receptor	Exposure Point Concentration in Soil (mg/kg)	Blood Lead Concentration, PbB (ug/dL)	Fetal Blood Lead Concentration, PbB_{fetal} (ug/dL)[1]	PbB or PbB_{fetal} > PbB_{target}
Industrial Worker	596	3.0	8.3 (2.8%)	No
Site-Specific Worker	596	2.4	6.7 (1.3%)	No
Construction Worker	581	3.5	9.8 (4.8%)	No
Trespasser	418	2.2	6.1 (0.90%)	No

Notes:

(1) The probability that the PbB_{fetal} will exceed 10 ug/dL is noted in parentheses.

EPC developed using the Central Tendency soil concentration for exposure domain (USEPA, 2003)

PbB and PbB_{fetal} for non-residential adults were calculated by utilizing algorithms presented in *Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil* (USEPA, 2003).

IR_{S+D}

for Lead in Children, Version 1.0 (USEPA, 2001).

PbB_{target} = 10 ug/dL

ATTACHMENT D

Toxicity Profiles for Primary COPCs

ATTACHMENT D
Toxicity Profiles for Primary COPCs
Arsenic

General Information:

Arsenic is a metallic element found naturally in the environment in ores and soil and exists in both organic and inorganic forms. Arsenic is a contaminant of waste oil, which results from engine wear.

Exposure Route:

Inhalation, dermal, ingestion

Health Effects:

Immediate effects of arsenic exposure from ingestion can include gastrointestinal irritation and inflammation, abdominal pain, vomiting, diarrhea, low blood pressure, and pulse irregularity. Hair loss and Mees lines (white bands in the nail beds) are clinical delayed manifestations of arsenic poisoning. Common neurological symptoms include a tingling sensation and numbness in the extremities (hands and feet). These signs and symptoms, followed by shock, coma and death, characterize fatal arsenic ingestions.

Long-term effects from arsenic ingestion include vascular damage, benign skin lesions with increased pigmentation, peripheral nerve damage, liver effects such as jaundice and cirrhosis, and a variety of cancers. A reported vascular disease associated with arsenic ingestion is Blackfoot disease, which is manifested as loss of circulation in the extremities leading to gangrene and necrosis. Skin, liver, bladder, and kidney cancers have all been reported from ingestion of arsenic. Skin cancers develop secondarily from keratoses in the skin, which begin as dark brown spots and often develop further into hardened corn-like lesions, or warts. Three types of skin cancer most commonly associated with arsenic exposure are Bowen's disease, basal cell carcinoma and squamous cell carcinoma.

Acute effects reported with dermal and inhalation exposures include skin and mucous membrane irritation, conjunctivitis, and tissue necrosis. Moist surfaces, for example the lips and mouth, where the arsenic-containing dust can settle are most commonly affected through this route of exposure. Inhalation of high concentrations of arsenic dusts can lead to sore throat, lung irritation, and some gastrointestinal effects. Motor weakness and neuropathy, such as "pins and needles" in the extremities, can occur from inhalation exposures as well. Long-term inhalation of airborne arsenic has been known to cause lung cancer. Certain combustion products containing arsenical compounds can cause respiratory and cardiovascular diseases.

Target Organs:

The EPA IRIS oral reference dose was derived from human chronic oral exposure studies (Tseng, 1977; Tseng et al., 1968) that identified hyperpigmentation, keratosis, and possible vascular complications as the critical effects. The inhalation reference concentration was

R2-0006344

developed by California Environmental Protection Agency (CalEPA); CalEPA indicates inhalation of arsenic may affect development, the cardiovascular system, and the central nervous system. As discussed above, various other studies have also indicated that arsenic exposure may also affect the gastrointestinal system, eyes, respiratory system, liver, bladder, and/or kidney.

Carcinogenicity:

Arsenic is considered a Class A carcinogen, a known human carcinogen, by the USEPA. The classification is based on sufficient evidence from human data. An increased lung cancer mortality was observed in multiple human populations exposed primarily through inhalation. Also, increased mortality from multiple internal organ cancers (liver, kidney, lung, and bladder) and an increased incidence of skin cancer were observed in populations consuming drinking water high in inorganic arsenic.

References:

ATSDR (Agency for Toxic Substances and Disease Registry) (1998) Toxicological Profile for Arsenic. U.S. Department of Health and Human Services.

CalEPA. 2003. Toxicity Criteria Database. Office of Environmental Health Hazard Assessment. Available from: http://oehha.ca.gov/risk/ChemicalDB/start.asp

Chen, C. J., Chen, C. W., Wu, M. M. and Kuo, T. L. (1992) Cancer potential in liver, lung, bladder, and kidney due to ingested inorganic arsenic in drinking water. *Br. J. Cancer* 66:888–892.

Ellenhorn, M. J., Schonwald S., Ordog G., Wasserberger J (eds). (1997) *Ellenhorn's Medical Toxicology*. Williams & Wilkins: Philadelphia.

Harte, J., Holdren, C., Schneider, R., Shirley, C. (1991) *Toxics A to Z. A Guide to Everyday Pollution Hazards.* University of California Press: Los Angeles.

Tseng, W.P., H.M. Chu, S.W. How, J.M. Fong, C.S. Lin and S. Yeh. 1968. Prevalence of Skin Cancer in an Endemic Area of Chronic Arsenicism in Taiwan. *J. Natl. Cancer Inst*. 40: 453-463.

Tseng, W. P. 1977. Effects and Dose-Response Relationships of Skin Cancer and Blackfoot Disease with Arsenic. *Environmental Health Perspectives* 19: 109-119.

U.S. Environmental Protection Agency's Integrated Risk Information System (IRIS) Available from: http://www.epa.gov/iris/

ATTACHMENT D
Toxicity Profiles for Primary COPCs
Mercury

General Information:

Mercury, the liquid metal used in thermometers and dental fillings, is a naturally occurring metallic element and is commonly encountered as a heavy, silvery-white liquid. Airborne emissions of mercury are associated with the combustion of fossil fuels.

Liquid mercury evaporates quickly and mercury vapor is more hazardous because it can be inhaled, rapidly absorbed in the bloodstream and transported to the brain. Inorganic compounds used in paints as anti-mildew agents and in batteries are toxic, and are easily converted by bacteria to more organic forms which are highly toxic and are transported more efficiently through biological tissues. Organic mercury, particularly methyl mercury is far more hazardous because it is rapidly accumulated in fish and concentrates along the aquatic food chains. Methyl mercury is also rapidly absorbed by people who eat such fish and can readily pass through the placenta of pregnant women, exposing developing fetuses.

Exposure Route:

Inhalation, ingestion, dermal, transplacental

Health Effects:

Initial symptoms of mercury vapor exposure include coughing, fever, chills, difficulty breathing, dryness of mouth, and some muscle ache and headache, followed by gastrointestinal and urinary effects, including nausea, vomiting, abdominal pain, a metallic taste in the mouth and sometimes albuminuria.

Mercury is a potent neurotoxin, capable of causing severe brain damage in developing fetuses and mild tremors, emotional instability (anxiety and irritability), insomnia and loss of appetite in exposed adults. At moderate exposures, more significant mental disorders and motor disturbances, as well as kidney damage, are seen. Short-term exposures to high levels of mercury vapor may lead to lung damage and death. Evidence shows a higher rate of spontaneous abortions and other complications of pregnancy in pregnant women exposed to mercury vapor.

Elemental mercury vapor poisoning is followed by three phases of illness. The initial phase (first few days after exposure) is manifested as metal fume fever or a flu like illness characterized by chills, fever, aching muscles, dryness in the mouth and throat, and headache. The second phase involves symptoms of toxicity to the central nervous system, respiratory tract, and gastrointestinal and urologic systems. Severe cases progress to noncardiogenic pulmonary edema with dyspnea, cyanosis, subcutaneous emphysema, pneumothorax and death. The late phase involves the period when central nervous symptoms persist and other organ complaints resolve. The exposure to mercury and its vapor induce acute toxicity and cause long-term, probably irreversible, neurological sequelae.

R2-0006346

ATTACHMENT D
Toxicity Profiles for Primary COPCs
Mercury (continued)

The acute effects of exposure to inorganic forms of mercury include pain and burning sensation, whitening of the mucous membranes of the mouth and pharynx, esophageal constriction, and epigastric distress, followed by abdominal pain and vomiting of bloody material. Sensations of thirst, salivation, and a metallic taste in the mouth have been reported, and shock may ensue, leading to death in severe cases. The potential of mercuric salts to produce kidney damage is well documented.

Methylmercury has dramatic effects on the nervous system, particularly in the developing fetus and in small children. The mildest cases of poisoning show nonspecific symptoms, such as malaise, blurred vision, and pins-and-needles tingling, weakness, muscle cramping, atrophy, and loss of sensation. More severe cases show constriction of vision, diminished hearing, speech disorders, and shaky movements and unsteady gaits. The most severe cases show mental derangement and coma, with death the frequent outcome.

Target Organs:

Elemental Mercury: The EPA IRIS inhalation reference concentration for elemental mercury was derived from human occupational inhalation studies that identified central nervous system effects (hand tremor, increases in memory disturbance, slight subjective and objective evidence of autonomic nervous system dysfunction) as the critical effect (Fawer *et al*., 1983; Piikivi and Tolonen, 1989; Piikivi and Hanninen, 1989; Piikivi, 1989; Ngim *et al.*, 1992; Liang *et al*., 1993). CalEPA has developed and an oral reference dose for elemental mercury, but the Toxicity Criteria Database (CalEPA, 2003) does not specific a critical effect/endpoint.

Inorganic Mercury: The EPA IRIS oral reference dose for inorganic mercury was derived from rat subchronic feeding and subcutaneous exposure to mercuric chloride; the mercuric chloride studies identified autoimmune glomerulonephritis (kidney disease) as the critical effect (EPA, 1987). CalEPA has developed an inhalation reference concentration for inorganic mercury, which is reportedly based on effects to the central nervous system (CalEPA, 2003).

Methylmercury: The EPA IRIS oral reference dose for methyl mercury was derived from human epidemiological studies that identified developmental and neuropsychological impairment as the critical effects (Grandjean *et al.*, 1997; Budtz-Jørgensen *et al.*, 1999).

As discussed above, other studies have also indicated that exposure to mercury (in various forms) may also affect the eye, gastrointestinal, respiratory system, bladder, skin.

Carcinogenicity:

Elemental mercury is not classifiable as to human carcinogenicity (Class D) based on inadequate human and animal data. Mercuric chloride (the mercury form from which the inorganic reference dose was derived) and methylmercury are classified as a Class C "possible" human

carcinogenic based on the absence of data in humans and limited evidence of carcinogenicity in rats and mice; however, cancer potency factors have not been developed.

References:

Agency for Toxic Substances and Disease Registry (ATSDR). 1999. Toxicological Profile for Mercury. U.S. Department of Health and Human Services.

Budtz-Jørgensen, E; Keiding, N; Grandjean, P; et al. 1999. Methylmercury Neurotoxicity Independent of PCB Exposure [Letter]. *Environ Health Perspec*t 107(5):A236-237.

CalEPA. 2003. Toxicity Criteria Database. Office of Environmental Health Hazard Assessment. Available from: http://oehha.ca.gov/risk/ChemicalDB/start.asp

DeMott, R. P. and Borgert, C. J. 2000. *Principles of Toxicology: Environmental and Industrial Applications*, Chapter 11. John Wiley and Sons: New York.

Fawer, R.F., U. DeRibaupierre, M.P. Guillemin, M. Berode and M. Lobe. 1983.Measurement of hand tremor induced by industrial exposure to metallic mercury. *J. Ind. Med*. 40: 204-208.

Goyer, RA. 1991. *Casarett and Doull's Toxicology: The Basic Science of Poisons*, Chapter 11. Pergamon: New York.

Grandjean, P; Weihe, P; White, R; et al. (1997) Cognitive deficit in 7-year-old children with prenatal exposure to methylmercury. *Neurotoxicol Teratol* 20:1-12.

Ellenhorn MJ, Schonwald S, Ordog G, Wasserberger J (eds). (1997) *Ellenhorn's Medical Toxicology*. Williams & Wilkins: Philadelphia.

IARC. 1993. Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Geneva: World Health Organization, International Agency for Research on Cancer, 1972-Present. (Multivolume work). p. 58 324.

Liang, Y-X., R-K. Sun, Y. Sun, Z-Q. Chen and L-H. Li. 1993. Psychological effects of low exposure to mercury vapor: Application of a computer-administered neurobehavioral evaluation system. *Environ. Res.* 60: 320-327.

Ngim, C.H., S.C. Foo, K.W. Boey and J. Jeyaratnam. 1992. Chronic neurobehavioral effects of elemental mercury in dentists. *Br. J. Ind. Med.* 49: 782-790.

Piikivi, L. and U. Tolonen. 1989. EEG findings in chlor-alkali workers subjected to low long term exposure to mercury vapor. *Br. J. Ind. Med.* 46: 370-375.

Piikivi, L. and H. Hanninen. 1989. Subjective symptoms and psychological performance of chlorine-alkali workers. *Scand. J. Work Environ. Health*. 15: 69-74.

Piikivi, L. 1989. Cardiovascular reflexes and low long-term exposure to mercury vapor. *Int. Arch. Occup. Environ. Health*. 61: 391-395.

U.S. EPA. 1987. Peer Review Workshop on Mercury Issues. Summary Report. Environmental Criteria and Assessment Office, Cincinnati, OH. October 26-27.

ATTACHMENT D
Toxicity Profiles for Primary COPCs
Polychlorinated Dibenzofurans (PCDFs)

General Information:

Polychlorinated dibenzofurans (PCDF) include a group of 135 different chlorinated congeners. PCDF are not intentionally made but exist as by-products of industrial and natural processes (ATSDR, 2008). Anthropogenic sources of PCDF include:

- Incineration of Municipal Solid Waste
- Incineration of Medical Waste
- Secondary Copper Smelting
- Forest Fires
- Land Application of Sewage Sludge
- Cement Kilns
- Coal Fired Power Plants
- Residential Wood Burning
- Chlorine Bleaching of Wood Pulp
- Backyard burning of household waste may also be an important source.

There is the potential that the carbon anodes used in the high current mercury cells is a potential source of PCDF associated with chlor-alkai facilities (Rappe *et al.*, 1991).

Atmospheric dispersion, deposition and subsequent accumulation in the food chain are the major pathways of exposure, and subsequently uptake, for the general population. PCDFs adsorb strongly to soil and organic matter, where they persist for many years as a consequence of their chemical stability and their resistance to biodegradation.

Exposure Route:

Inhalation, ingestion, dermal, transplacental

Health Effects:

PCDFs with chlorination in the resulting in a planar molecule tend to have higher toxicity. These planar PCDFs bind to a molecular receptor in a fashion similar to dibenzodioxins and are often characterized as dioxin equivalents (van den Berg *et al*., 1998).

Acute Effects:

None of the studies that have examined humans acutely exposed to high concentrations of PCDF congeners reported death as an acute outcome. The LD_{50} for a single oral dose of dioxins varies between species and strains by a factor of more than 8000 (ATSDR, 1998; IARC, 1997; WHO, 1989), from the highly sensitive guinea pig (oral LD_{50} of 0.6 μg kg^{-1} bw) to the much more resilient hamster (oral LD_{50} of 5000 μg kg^{-1} bw). No single site of toxicity as the cause of death

R2-0006350

has been identified; each species has a different profile of organ toxicity, with a wasting syndrome and liver toxicity featuring most commonly (FSA, 2001).

Chronic Effects:

There is evidence of toxicity in humans following repeated or longterm exposure to dioxins. Effects that have been reported include chloracne, elevated levels of liver enzymes and other disturbances in liver function, an increased death rate from non-malignant liver disease, a slightly greater risk of developing diabetes, changes in thyroid function, impaired immunological function, effects on the cardiovascular system (including an increased mortality from cardiovascular disease), mild neuropathies, influences on reproductive hormones and reproductive outcomes, and, in children, some neurobehavioural effects including neurodevelopmental delays (FSA, 2001).

In all mammalian species tested, potent dioxin congeners have a number of characteristic toxic effects in common. Among these are progressive loss of body weight, reduced food intake, atrophy of the thymus, gastrointestinal hemorrhage and delayed lethality (several days or weeks). Other characteristic signs of toxicity are frequently found in the liver, skin and organs of the endocrine system (IARC, 1997).

Immunotoxicity

Several epidemiology studies and case reports have assessed immunological function in human populations exposed to TCDD, but they provide no overall confident insights of the dose–response (IARC, 1997). There is extensive evidence, from numerous studies in various animal species, that TCDD affects the immune system (IARC, 1997). Guinea pigs and mice appear to be among the most sensitive species; primates (and presumably humans) are among the least.

Reproductive Effects

Severe developmental effects have been reported in children born to mothers with high exposure to dioxin-like mixtures arising from the ingestion of rice oil contaminated with heated PCBs and PCDFs. This has occurred in two separate populations, in Taiwan and in Japan (the Yucheng and Yusho cohorts). The lowest intake of TEQs estimated to result in minimal Yusho symptoms was 28 ng kg–1 bw day–1 for 135 days, producing maternal body burdens of 2–3 μg TEQ kg^{-1} bw (Feeley and Brouwer, 2000).

Target Organs:

The USEPA (2010) oral reference dose for 2,3,7,8-TCDD is the ATSDR (2009) Minimum Risk Level (MRL) derived from a chronic oral study, which identified developmental effects as the critical effect. However, dermal (chloracne), immunological, and reproductive effects are also considered critical endpoints for PCDFs. CalEPA has developed an inhalation reference

concentration for 2,3,7,8-TCDD, but the Toxicity Criteria Database (CalEPA, 2003) does not specify a critical effect/endpoint.

Carcinogenicity:

EPA considers 2,3,7,8-TCDD as a known human carcinogen. The International Agency for Research on Cancer (IARC) also considers TCDD a human carcinogen. It is generally believed that dioxin-like compounds, including dioxin-like PCDFs, also produce cancer.

References:

ATSDR (1998) Toxicological Profile for Chlorinated Dibenzo-p-dioxins, Agency for Toxic Substances and Disease Registry, US Department of Health and Human Services, Atlanta.

ATSDR (2009) Minimal Risk Levels List, Agency for Toxic Substances and Disease Registry, US Department of Health and Human Services, Atlanta.

CalEPA. 2003. Toxicity Criteria Database. Office of Environmental Health Hazard Assessment. Available from: http://oehha.ca.gov/risk/ChemicalDB/start.asp

Feeley M and Brouwer A (2000) Health risks to infants from exposure to PCBs, PCDDs and PCDFs. Food Additives and Contaminants 17 325–333.

FSA (2001) Statement on the Tolerable Daily Intake for Dioxins and Dioxin-like Polychlorinated Biphenyls, Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment, Food Standards Agency, London. Available on-line at http://www.foodstandards.gov.uk

IARC (1997) Polychlorinated Dibenzo-para-dioxins and Polychlorinated Dibenzofurans, IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, vol. 69, International Agency for Research on Cancer, Lyon.

van den Berg M, Birnbaum L, Bosveld ATC, Brunström B, Cook P, Feeley M, Giesy JP, Hanberg A, Hasagawa R, Kennedy SW, Kubiak T, Larsen JC, van Leeuwen FXR, Liem AKD, Nolt C, Peterson RE, Poellinger L, Safe S, Schrenk D, Tillitt D, Tysklind M, Younes M, Waern F and Zacharewski T (1998) Toxic equivalency factors (TEFs) for PCBs, PCDDs, PCDFs for humans and wildlife. Environmental Health Perspectives 106 775–792.

WHO (1998) Assessment of the Health Risk of Dioxins: A Re-evaluation of the Tolerable Daily Intake (TDI), Consultation, May 1998, World Health Organization, Geneva. Available on-line at http://www.who.int/pcs/docs/dioxin-exec-sum/exe-sum-final.html.

ATTACHMENT D
Toxicity Profiles for Primary COPCs
PCDFs (continued)

Rappe, C., L. Kjeller, and S. Kulp. 1991. Levels profile and pattern of PCDDs and PCDFs in samples related to the production and use of chlorine. Chromosphere, Vol. 23 No. 11-12, pp1629-36.

R2-0006353

ATTACHMENT D
Toxicity Profiles for Primary COPCs
Polycyclic Aromatic Hydrocarbons (PAHs)

General Information:

Due to the similar physical and chemical characteristics of the carcinogenic polycyclic aromatic hydrocarbons (benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-c,d)pyrene), general information relating to the occurrence and the human health effects of these chemicals in the environment is discussed for the group as a whole.

PAHs are a group of chemicals that are formed during the incomplete burning of coal, oil, gas, wood, petroleum products, garbage, or other organic substances. PAHs can either be synthetic or occur naturally. They are found naturally in petroleum products such as asphalt and tar. As individual compounds (i.e., not as part of a combustion product), most PAHs have no known use except for research purposes. A few PAHs are used in medicines and to make dyes, plastics, shampoos, skin care products and pesticides. Others are contained in asphalt used in road construction. They are ubiquitous in nature as evidenced by their detection in sediments, soils, air and surface waters.

Exposure Route:

Inhalation, ingestion, dermal

Health Effects:

Adverse health effects associated with acute exposure to PAHs may include skin and eye irritation, photosensitivity, respiratory irritation, or bronchitis. Inhalation is the most common route of exposure, but dermal exposure can cause irritation such as dermatitis, psoriasis and chronic eczema. Persons with existing skin disorders may be more susceptible to the effects of these agents. Oral exposure to PAHs may cause gastric upset and vomiting if ingested in large quantities.

While PAHs can be acutely toxic, this characteristic is generally relevant only at doses that are not frequently encountered in industrial or environmental settings. More commonly, toxicological concerns about exposure to PAHs relate to the potential carcinogenicity of many of these compounds. While there are no studies that directly link inhalation, oral, or dermal exposure to any of the individual PAHs to cancer, occupational exposure to groups of these compounds has commonly been associated with the development of cancer in several tissues. Increases in mortality due to lung cancer has been reported in workers exposed to coke oven emissions, roofing-tar emissions, and tobacco smoke. Dermal exposure to PAHs in chimney ash and shale oil has long been associated with skin tumors in workers exposed occupationally. The mechanism of carcinogenicity of the PAHs is related to the formation of reactive metabolites that bind DNA and cause mutations in critical target genes. In fact, members several members of the

R2-0006354

ATTACHMENT D
Toxicity Profiles for Primary COPCs
PAHs (continued)

PAH family are considered prototypical carcinogens and are frequently used in experimental cancer research.

In addition to their carcinogenic activity, PAHs also have the ability to increase the production of a number of enzymes, particularly in the liver, that are responsible for the metabolism of many other chemicals, possibly leading to potentiation of the toxicity of some of these compounds.

Target Organs:

Neither an oral reference dose nor an inhalation reference concentration has been developed for benzo(a)pyrene. However, as indicated above, skin, eye, respiratory system, immune system, kidney, liver, bladder, gastrointestinal effects have been associated with PAH exposure.

Carcinogenicity:

Benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-c,d)pyrene are classified as Class B2 "probable" human carcinogens. Note, however, IRIS indicates human data specifically linking benzo(a)pyrene to carcinogenic effect are lacking.

References:

ATSDR (Agency for Toxic Substances and Disease Registry) (1998) Toxicological Profile for PAHs. U.S. Department of Health and Human Services.

Ellenhorn, M.J. (1997) Ellenhorn's Medical Toxicology: Diagnosis and Treatment of Human Poisoning, Second Edition. Williams & Wilkins: Maryland.

Hammond, E. D. et al. (1976) Inhalation of B[a]P and cancer in man. Ann NY Acad Sci 271:116-124.

James, R. C. and Saranko, C. J. (2000). Principles of Toxicology: Environmental and Industrial Applications, Chapter 13. John Wiley and Sons: New York.

Lloyd, J. W. (1971). Long-term mortality study of steelworkers: V. Respiratory cancer in coke plant workers. J Occup Med 13:53-68.

Maclure, K. M., MacMahon B. (1980). An epidemiologic perspective of environmental carcinogenesis. Epidemiol Rev 2:19-48.

U.S. Environmental Protection Agency's Integrated Risk Information System (IRIS) Available from: http://www.epa.gov/iris

ATTACHMENT D
Toxicity Profiles for Primary COPCs
Hexachlorobenzene

General Information:

Sources of hexachlorobenzene are industrial processes related to chlorination. It is commonly found as a by-product contaminant near former chlor-alkali facilities. Hexachlorobenzene was also manufactured as a chlorinated hydrocarbon fungicide used as a seed treatment, especially on wheat to control wheat bunt. It may be found in formulation or used in conjunction with other seed treatments. Hexachlorobenzene has been banned as a pesticide from use in the US.

Exposure Route:

Inhalation, ingestion, dermal, transplacental

Health Effects:

Acute Effects

Hexachlorobenzene is considered non-toxic for acute exposure and thus there is no signal word required on the label. Single doses of HCB are relatively non-toxic though repeated doses, even at small amounts are toxic (14, 10).

Unlike humans, rodents exhibit neurological symptoms including tremors, paralysis, muscle incoordination, weakness and convulsions at high single doses (3). The LD_{50} for rats is 10,000 mg/kg and guinea pigs can tolerate a dose greater than 3,000 mg/kg. The oral cat and rat LD50 are 1,700 and 4,000 mg/kg, respectively (12). Inhalation LC_{50} values of hexachlorobenzene for the cat, rat and mouse are 1600, 3,600, and 4,000 mg/m^3, respectively (12). These values indicate that a substantial concentration of the pesticide needs to be present for acute effects to be seen. The pesticide does not carry a signal word on the label because the acute LD_{50} for the product is so high.

Chronic Effects

Despite its low acute toxicity, hexachlorobenzene is toxic to humans and animals when long-term exposure occurs. The product has been banned for most food crop uses throughout the world due to its chronic toxicity. In Turkey, many people eating HCB contaminated flour developed a skin ailment, porphyria cutanea tarda. The ailment is characterized by blistering of the skin. The skin was sensitive to light and was easily infected. Recovery usually followed termination of exposure (3,10) although many people were seriously disfigured and at least 10% of those people affected died. Twenty years after the incident, some individuals were still suffering from the effects of hexachlorobenzene exposure (3). Estimates of the daily intake of the compound in the contaminated wheat range from 50 to 200 mg/day over "relatively long periods" (3).

R2-0006356

ATTACHMENT D
Toxicity Profiles for Primary COPCs
Hexachlorobenzene (continued)

Reproductive Effects

Rats fed up to small amounts continuously in their diet were observed through two successive litters. Death of most of the newborn rats was observed at the highest dose and was related to both the maternal dose and cumulative exposure through milk. The dams suffered lung damage (3).

Organ Toxicity

Rats fed diets containing up to 32 mg/kg/day HCB in corn oil showed tissue changes which were confined to the liver and the spleen. Studies on adult female beagles fed HCB for 21 days showed that a minimally toxic dose was 50 mg/kg/day. Changes in the liver and the central nervous system were judged to be hexachlorobenzene induced (3).

Target Organs:

The EPA IRIS oral reference dose for HCB was derived from a rat chronic feeding study (Arnold *et al.*, 1985) that identified the liver as the critical endpoint. In inhalation reference concentration is not available for HCB. As discussed above, various other studies have also indicated that HCB exposure may also affect the spleen and central nervous system.

Carcinogenicity:

Hexachlorobenzene is classified as a B2 - probable human carcinogen. Hexachlorobenzene, when administered orally, has been shown to induce tumors in the liver, thyroid and kidney in three rodent species.

References:

Gosselin, R.E., R.P. Smith, H.C. Hodge (1984). Clinical Toxicology of Commercial Products, Williams and Wilkins, Baltimore, MD.

Johnson, W.W. and M.T. Finley (1980). Handbook of Acute Toxicity of Chemicals to Fish and Aquatic Invertebrates. U. S. Dept of the Interior, Fish and Wildlife Service, Resource Publication 137.

National Library of Medicine (1992). Hazardous Substances Databank. TOXNET, Medlars Management Section, Bethesda, MD.

U.S. Environmental Protection Agency (1987). Health Advisory, Office of Drinking Water.

Hill, E.F. and M.B. Camardese (1986). Lethal Dietary Toxicities of Environmental Contaminants and Pesticides to Coturnix. U.S. Dept of the Interior, Fish and Wildlife Service, Technical Report 2.

R2-0006357

ATTACHMENT D
Toxicity Profiles for Primary COPCs
Hexachlorobenzene (continued)

Menzie, Calvin M. (1980). Metabolism of Pesticides, Update III. U. S. Dept of the Interior, Fish and Wildlife Service, Special Scientific Report, Wildlife No. 232.

Beall, M.L., Jr. (1976). Persistence of Aerially Applied Hexachlorobenzene on Grass and Soil. J. Environ. Qual. 5:4:367-369.

Metcalf, R.L., I.P. Kapoor, Po-Yung Lu, C.K. Schuth, and P. Sherman (1973). Model Ecosystem Studies of Environmental Fate of Six Organochlorine Pesticides, Environmental Health Perspectives, Experimental Issue 4:35-44.

Worthing, Charles R., Editor (1983). The Pesticide Manual, A World Compendium. The British Crop Protection Council, The Ravenham Press Limited, Ravenham, Suffolk, England.

Edwards, I. Ralph, Donald G. Ferry, and Wayne A. Temple.

Fungicides and Related Compounds. in Handbook of Pesticide Toxicology, Volume 3 Classes of Pesticides. Wayland J. Hayes and Edward R. Laws Editors. Academic Press, Inc. NY.

National Institute for Occupational Safety and Health (1983 Supplement) Registry of Toxic Effects of Chemical Substances, U.S. Dept of Health and Human Services,Public Health Service, Centers for Disease Control, Cincinnati, OH.

Occupational Health Services, (1988). Hazardline, New York, NY.

Williams, W. Martin, Patrick W. Holden, Douglas W. Parsons, and Matthew N. Lorber. Pesticides in Ground Water Data Base 1988 Interim Report. 1988. E.S. EPA, Office of Pesticide Programs, Environmental Fate and Effects Division.

Ecobichon, Donald J. (1991). Toxic Effects of Pesticides in Casarett and Doull's Toxicology: The Basic Science of Poisons, Fourth Edition. Mayo O.Amdur, John Doull, and Curtis D. Klaassen editors. Pergamon Press, NY.

R2-0006358

ATTACHMENT E

Vapor Intrusion Assessment

ATTACHMENT E
Vapor Intrusion Assessment

Table E-1
Summary of Soil Vapor Analytical Results
LCP Chemicals Superfund Site - Linden, New Jersey

Analyte	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Value (mg/m^3)	Average Value [1] (mg/m^3)	Maximum Detected Value [2] (mg/m^3)	Location of Maximum Detected Value
1,1,1-Trichloroethane	1	10	10%	0.0370	0.0047	0.0370	SV-12
1,1-Dichloroethane	2	10	20%	0.0069	0.0038	0.0250	SV-13
1,2,4-Trimethylbenzene	9	10	90%	0.0054	0.0271	0.0683	SV-10
1,3-Dichlorobenzene	5	10	50%	0.0078	0.0095	0.0380	SV-10
1,4-Dichlorobenzene	2	10	20%	0.0060	0.0018	0.0066	SV-9
1-Ethyl-4-methylbenzene	6	10	60%	0.0038	0.0064	0.0190	SV-10
1-Propene	2	10	20%	0.0058	0.0017	0.0069	SV-4
2,2,4-Trimethylpentane	7	10	70%	0.0041	0.0464	0.3590	SV-13
2-Butanone (MEK)	9	10	90%	0.0050	0.0079	0.0220	SV-10
Acetone	5	10	50%	0.0413	0.0288	0.0839	SV-5
Benzene	9	10	90%	0.0045	0.0212	0.0530	SV-10
Bromodichloromethane	1	10	10%	0.0100	0.0022	0.0100	SV-3
Carbon Disulfide	5	10	50%	0.0050	0.0045	0.0170	SV-3
Carbon Tetrachloride	4	10	40%	0.0110	0.0170	0.1070	SV-3
Chlorobenzene	1	10	10%	0.0069	0.0011	0.0069	SV-8
Chloroform	7	10	70%	0.0200	0.2375	1.030	SV-3
Chloromethane	1	10	10%	0.0244	0.0027	0.0244	SV-10
cis-1,2-Dichloroethene	3	10	30%	0.0110	0.0098	0.0698	SV-5
Cyclohexane	2	10	20%	0.0150	0.0039	0.0190	SV-1
Ethanol	10	10	100%	0.0339	0.7128	4.450	SV-10
Ethylbenzene	8	10	80%	0.0074	0.0219	0.0604	SV-10
Heptane	6	10	60%	0.0110	0.0172	0.0455	SV-10
Hexachloro-1,3-butadiene	2	10	20%	0.8760	0.3495	2.610	SV-1
Hexane(C6)	6	10	60%	0.0081	0.0334	0.0997	SV-1
Isopropanol	4	10	40%	0.0120	0.0845	0.7130	SV-10
Mercury [3]	4	4	100%	0.0002	0.0010	0.0025	SV-2
Methylene Chloride	2	10	20%	0.0049	0.0015	0.0049	SV-10
m,p-Xylenes (sum of Isomers)	10	10	100%	0.0052	0.0893	0.2500	SV-10
o-Xylene	8	10	80%	0.0091	0.0256	0.0721	SV-10
Tert-butyl alcohol	5	10	50%	0.0055	0.0048	0.0210	SV-10
Tetrachloroethylene (PERC)	7	10	70%	0.0075	0.4181	3.760	SV-5
Tetrahydrofuran	2	10	20%	0.0059	0.0020	0.0074	SV-2
Toluene	10	10	100%	0.0120	0.1298	0.3460	SV-10
Trichloroethene (TCE)	6	10	60%	0.0059	0.0340	0.1880	SV-5
Trichlorofluoromethane	8	10	80%	0.0073	0.0885	0.6630	SV-2
Trichlorotrifluoroethane	4	10	40%	0.0270	0.0924	0.8050	SV-2
Xylenes, mixed	10	10	100%	0.0052	0.1149	0.3220	SV-10

Notes:

(1) The average concentration was calculated assuming one-half the method detection limit for non-detect results.

(2) The maximum detected concentration was selected as the exposure point concentration for the risk characterization due to the limited number of samples.

(3) The maximum possible soil vapor concentration (13.2 mg/m^3) based on vapor pressure was conservatively utilized in the risk characterization.

ATTACHMENT E
Vapor Intrusion Assessment

Table E-2
Johnson and Ettinger Model Input Parameters
LCP Chemicals Superfund Site - Linden, New Jersey

Model Input Parameter	Value Used	Rationale
Soil Properties		
Average Soil Temperature (Ts), ^{o}C	13	NJDEP, 2005
Depth below grade to bottom of enclosed space floor (L_F), cm	15	Slab construction
Soil vapor sampling depth below grade (Ls), cm	61	Average depth at which samples were collected, 2 feet bgs[a]
Thickness of soil stratum A (h_A), cm	Ls	Depth-to-soil vapor sample
Thickness of soil stratum B (h_B), cm	--	Not applicable
Thickness of soil stratum C (h_C), cm	--	Not applicable
Soil stratum A SCS soil type	S	NJDEP (2005) default soil type: Sand (S)
Stratum A soil dry bulk density, gm/cm^3	1.66	USEPA J&E model default for Sand (S)
Stratum A soil total porosity, unitless	0.375	USEPA J&E model default for Sand (S)
Stratum A soil water-filled porosity, cm^3/cm^3	0.054	USEPA J&E model default for Sand (S)
Startum A soil organic carbon fraction (f_{oc}^{A}), unitless	0.002	USEPA J&E model default
Commercial/Industrial Building Parameters		
Enclosed space floor thickness (L_{crack}), cm	10	USEPA J&E model default
Enclosed space floor length (L_B), cm	1000	USEPA J&E model default
Enclosed space floor width (W_B), cm	1000	USEPA J&E model default
Enclosed space height (H_B), cm	366	USEPA J&E model default; Ceiling height = 12 feet
Floor-wall seam crack width (w), cm	0.1	USEPA J&E model default
Indoor air exchange rate (ER), $hour^{-1}$	1	Default commercial assumption (professional judgment; Cal-EPA, 2005)
Average vapor flow rate into building (Qsoil), L/m	5	Based on 5 L/min per 100 m^2 of building floor space (NJDEP, 2006)

Notes:

[a] Soil vapor samples collected from semi-permanent soil vapor probes screened at depths between 0 and 4 ft below ground surface (bgs)

Cal-EPA DTSC (2005). Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air - Interim Final. Revised February 7.

NJDEP (2005). New Jersey Department of Environmental Protection Vapor Intrusion Guidance. October.

NJDEP (2006). Instructions for New Jersey Johnson & Ettinger Spreadsheets. www.state.nj.us/dep/srp/guidance/vaporintrusion/njje_instructions.pdf

ATTACHMENT E
Vapor Intrusion Assessment

Table E-3
Cumulative Cancer Risks and Noncancer Hazards - Indoor Air
Commercial/Industrial Worker Exposure Scenario
LCP Chemicals Superfund Site - Linden, New Jersey

COPCs	Concentration in Indoor Air (mg/m^3)	Cancer Risk Calculations			Non-Cancer Hazard Calcualtions		
		Intake ($\mu g/m^3$)	URF $(\mu g/m^3)^{-1}$	Cancer Risk	Intake (mg/m^3)	RfC (mg/m^3)	Noncancer Hazard
1,1,1-Trichloroethane	2.36E-05	1.9E-03	--	--	5.4E-06	5.0E+00	1.1E-06
1,1-Dichloroethane	1.57E-05	1.3E-03	1.6E-06	2.1E-09	3.6E-06	--	--
1,2,4-Trimethylbenzene	4.09E-05	3.3E-03	--	--	9.3E-06	7.0E-03	1.3E-03
1,3-Dichlorobenzene [a]	2.35E-05	1.9E-03	--	--	5.4E-06	8.0E-01	6.7E-06
1,4-Dichlorobenzene	4.09E-06	3.3E-04	1.1E-05	3.7E-09	9.3E-07	8.0E-01	1.2E-06
1-Ethyl-4-methylbenzene [a]	1.18E-05	9.6E-04	--	--	2.7E-06	7.0E-03	3.8E-04
1-Propene	1.74E-06	1.4E-04	--	--	4.0E-07	3.0E+00	1.3E-07
2,2,4-Trimethylpentane [a]	2.41E-04	2.0E-02	--	--	5.5E-05	7.0E-01	7.9E-05
2-Butanone (MEK)	1.41E-05	1.2E-03	--	--	3.2E-06	5.0E+00	6.4E-07
Acetone	5.83E-05	4.8E-03	--	--	1.3E-05	3.1E+01	4.3E-07
Benzene	3.46E-05	2.8E-03	7.8E-06	2.2E-08	7.9E-06	3.0E-02	2.6E-04
Bromodichloromethane	4.68E-06	3.8E-04	3.7E-05	1.4E-08	1.1E-06	--	--
Carbon Disulfide	1.15E-05	9.4E-04	--	--	2.6E-06	7.0E-01	3.7E-06
Carbon Tetrachloride	6.82E-05	5.6E-03	6.0E-06	3.3E-08	1.6E-05	1.0E-01	1.6E-04
Chlorobenzene	4.33E-06	3.5E-04	--	--	9.9E-07	5.0E-02	2.0E-05
Chloroform	6.95E-04	5.7E-02	2.3E-05	1.3E-06	1.6E-04	9.8E-02	1.6E-03
Chloromethane	1.70E-05	1.4E-03	--	--	3.9E-06	9.0E-02	4.3E-05
cis-1,2-Dichloroethylene [b]	4.39E-05	3.6E-03	--	--	1.0E-05	--	--
Cyclohexane	1.19E-05	9.7E-04	--	--	2.7E-06	6.0E+00	4.5E-07
Ethanol [a]	3.18E-03	2.6E-01	--	--	7.3E-04	4.0E+00	1.8E-04
Ethylbenzene	3.81E-05	3.1E-03	2.5E-06	7.8E-09	8.7E-06	1.0E+00	8.7E-06
Heptane [a]	3.04E-05	2.5E-03	--	--	6.9E-06	7.0E-01	9.9E-06
Hexachloro-1,3-butadiene	1.53E-03	1.2E-01	2.2E-05	2.7E-06	3.5E-04	--	--
Hexane	7.35E-05	6.0E-03	--	--	1.7E-05	7.0E-01	2.4E-05
Isopropanol	4.57E-04	3.7E-02	--	--	1.0E-04	7.0E+00	1.5E-05
Mercury (elemental) [c]	6.26E-03	5.1E-01	--	--	1.4E-03	3.0E-04	4.8E+00
Methylene Chloride	3.29E-06	2.7E-04	4.7E-07	1.3E-10	7.5E-07	1.0E+00	7.5E-07
m-Xylene	2.00E-04	1.6E-02	--	--	4.6E-05	7.0E-01	6.5E-05
o-Xylene	4.70E-05	3.8E-03	--	--	1.1E-05	7.0E-01	1.5E-05
p-Xylene	1.59E-04	1.3E-02	--	--	3.6E-05	7.0E-01	5.2E-05
Tert-butyl alcohol [a]	1.36E-05	1.1E-03	--	--	3.1E-06	3.1E+01	1.0E-07
Tetrachloroethylene	2.35E-03	1.9E-01	--	--	5.4E-04	2.7E-01	2.0E-03
Tetrahydrofuran [b]	4.94E-06	4.0E-04	2.6E-07	1.0E-10	1.1E-06	3.0E+00	3.8E-07
Toluene	2.26E-04	1.8E-02	--	--	5.2E-05	5.0E+00	1.0E-05
Trichloroethylene	1.20E-04	9.8E-03	2.0E-06	2.0E-08	2.7E-05	--	--
Trichlorofluoromethane	4.32E-04	3.5E-02	--	--	9.9E-05	7.0E-01	1.4E-04
Trichlorotrifluoroethane	5.13E-04	4.2E-02	--	--	1.2E-04	3.0E+01	3.9E-06
				Total Receptor Risk	**4.1E-06**		**Total Receptor Hazard**	**4.8E+00**

Notes:

" -- " not applicable or not detected

[a] The following surrogate toxicity values were used:

- 1,3-dichlorobenzene use 1,4-dichlorobenzene as surrogate (RfC only)
- 1-Ethyl-4-methylbenzene uses 1,2,4-trimethylbenzene as a surrogate
- 2,2,4-Trimethylpentane uses hexane as a surrogate
- ethanol uses methanol as a surrogate
- heptane uses hexane as a surrogate
- tert-butyl alcohol uses acetone as a surrogate
- tetrahydrofuran uses MTBE as a surrogate (RfC only)

[b] Inhalation toxicity values currently not available from USEPA (November 2010)

[c] Maximum possible soil vapor concentration (13.2 mg/m^3) based on vapor pressure = 0.0012 mmHg

Johnson and Ettinger Model Spreadsheets

Johnson and Ettinger Model Spreadsheets - Data Entry

SG-ADV
Version 3.1; 02/04

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g (µg/m^3)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
71556	3.7E+01			1,1,1-Trichloroethane
75343	2.5E+01			1,1-Dichloroethane
95636	6.8E+01			1,2,4-Trimethylbenzene
541731	3.8E+01			1,3-Dichlorobenzene
106467	6.6E+00			1,4-Dichlorobenzene
622968	1.9E+01			1-Ethyl-4-methylbenzene
115071	6.9E+00			1-Propene
540841	3.6E+02			2,2,4-Trimethylpentane
78933	2.2E+01			2-Butanone (MEK)
67641	8.4E+01			Acetone
71432	5.3E+01			Benzene
75274	1.0E+01			Bromodichloromethane
75150	1.7E+01			Carbon disulfide
56235	1.1E+02			Carbon tetrachloride
108907	6.9E+00			Chlorobenzene
67663	1.0E+03			Chloroform
74873	2.4E+01			Chloromethane
156592	7.0E+01			cis-1,2-Dichloroethylene
110827	1.9E+01			Cyclohexane
64175	4.5E+03			Ethanol (as methanol)
100414	6.0E+01			Ethylbenzene
142825	4.6E+01			Heptane
87683	2.6E+03			Hexachloro-1,3-butadiene
110543	1.0E+02			Hexane
67630	7.1E+02			Isopropanol
7439976	1.3E+04			Mercury (elemental)
75092	4.9E+00			Methylene chloride
108383	3.2E+02			m-Xylene
95476	7.2E+01			o-Xylene
106423	2.5E+02			p-Xylene
75650	2.1E+01			Tert-butyl alcohol
127184	3.8E+03			Tetrachloroethylene
109999	7.4E+00			Tetrahydrofuran
108883	3.5E+02			Toluene
79016	1.9E+02			Trichloroethylene
75694	6.6E+02			Trichlorofluoromethane
76131	8.1E+02			Trichlorotrifluoroethane

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (^oC)	ENTER Totals must add up to value of Ls (cell F24) Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
15	61	13	61			S		

average = 2 ft

Note for mercury: maximum possible soil vapor concentration based on vapor pressure of 0.0012 mmHg

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, r_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, q_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, r_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, q_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, r_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, q_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	C	1.43	0.459	0.215	C	1.43	0.459	0.215

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, DP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	1	5

Johnson and Ettinger Model Spreadsheets - Chemical Properties

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization a the normal boiling point, $DH_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	
7.8E-02	8.8E-06	1.7E-02	25	7,136	347.24	545.00	133.40	--	5.0E+00	1,1,1-Trichloroethane
7.4E-02	1.1E-05	5.6E-03	25	6,895	330.55	523.00	98.96	1.6E-06	--	1,1-Dichloroethane
6.1E-02	7.9E-06	6.1E-03	25	9,369	442.30	649.17	120.20	--	7.0E-03	1,2,4-Trimethylbenzene
6.9E-02	7.9E-06	3.1E-03	25	9,230	446.00	684.00	147.00	--	8.0E-01	1,3-Dichlorobenzene
6.9E-02	7.9E-06	2.4E-03	25	9,271	447.21	684.75	147.00	1.1E-05	8.0E-01	1,4-Dichlorobenzene
7.0E-02	7.8E-06	7.3E-03	25	8,523	412.27	617.05	106.17	--	7.0E-03	1-Ethyl-4-methylbenzene
9.9E-03	1.4E-05	6.3E-01	25	0	266.25	0.00	56.11	--	3.0E+00	1-Propene
1.0E-01	1.0E-05	4.5E+00	25	14,127	629.88	1750.00	149.00	--	7.0E-01	2,2,4-Trimethylpentane
8.1E-02	9.8E-06	5.6E-05	25	7,481	352.50	536.78	72.11	--	5.0E+00	2-Butanone (MEK)
1.2E-01	1.1E-05	3.9E-05	25	6,955	329.20	508.10	58.08	--	3.1E+01	Acetone
8.8E-02	9.8E-06	5.5E-03	25	7,342	353.24	562.16	78.11	7.8E-06	3.0E-02	Benzene
3.0E-02	1.1E-05	1.6E-03	25	7,800	363.15	585.85	163.83	3.7E-05	--	Bromodichloromethane
1.0E-01	1.0E-05	3.0E-02	25	6,391	319.00	552.00	76.13	--	7.0E-01	Carbon disulfide
7.8E-02	8.8E-06	3.0E-02	25	7,127	349.90	556.60	153.82	6.0E-06	1.0E-01	Carbon tetrachloride
7.3E-02	8.7E-06	3.7E-03	25	8,410	404.87	632.40	112.56	--	5.0E-02	Chlorobenzene
1.0E-01	1.0E-05	3.7E-03	25	6,988	334.32	536.40	119.38	2.3E-05	9.8E-02	Chloroform
1.3E-01	6.5E-06	8.8E-03	25	5,115	249.00	416.25	50.49	--	9.0E-02	Chloromethane
7.4E-02	1.1E-05	4.1E-03	25	7,192	333.65	544.00	96.94	--	--	cis-1,2-Dichloroethylene
7.4E-02	8.5E-06	1.0E-01	25	7,474	353.85	572.20	84.16	--	6.0E+00	Cyclohexane
1.5E-01	1.6E-05	4.5E-06	25	10,936	338.26	547.78	46.07	--	4.0E+00	Ethanol (as methanol)
7.5E-02	7.8E-06	7.9E-03	25	8,501	409.34	617.20	106.17	2.5E-06	1.0E+00	Ethylbenzene
9.3E-02	7.6E-06	1.7E+00	25	6,895	371.65	508.00	100.21	--	7.0E-01	Heptane
5.6E-02	6.2E-06	8.1E-03	25	10,206	486.15	738.00	260.76	2.2E-05	--	Hexachloro-1,3-butadiene
2.0E-01	7.8E-06	1.7E+00	25	6,895	341.70	508.00	86.18	--	7.0E-01	Hexane
8.0E-02	9.3E-06	8.8E-06	25	10,346	390.88	563.05	L	--	7.0E+00	Isopropanol
3.1E-02	6.3E-06	1.1E-02	25	14,127	629.88	1750.00	200.59	--	3.0E-04	Mercury (elemental)
1.0E-01	1.2E-05	2.2E-03	25	6,706	313.00	510.00	84.93	4.7E-07	1.0E+00	Methylene chloride
7.0E-02	7.8E-06	7.3E-03	25	8,523	412.27	617.05	106.17	--	7.0E-01	m-Xylene
8.7E-02	1.0E-05	5.2E-03	25	8,661	417.60	630.30	106.17	--	7.0E-01	o-Xylene
7.7E-02	8.4E-06	7.6E-03	25	8,525	411.52	616.20	106.17	--	7.0E-01	p-Xylene
8.5E-02	9.1E-06	6.7E-05	25	0	356.00	0.01	74.12	--	3.1E+01	Tert-butyl alcohol
7.2E-02	8.2E-06	1.8E-02	25	8,288	394.40	620.20	165.83	5.9E-06	2.7E-01	Tetrachloroethylene
9.8E-02	1.1E-05	7.0E-05	25	0	338.15	0.00	72.10	2.6E-07	3.0E+00	Tetrahydrofuran
8.7E-02	8.6E-06	6.6E-03	25	7,930	383.78	591.79	92.14	--	5.0E+00	Toluene
7.9E-02	9.1E-06	1.0E-02	25	7,505	360.36	544.20	131.39	2.0E-06	--	Trichloroethylene
8.7E-02	9.7E-06	9.7E-02	25	5,999	296.70	471.00	137.36	--	7.0E-01	Trichlorofluoromethane
7.8E-02	8.2E-06	4.8E-01	25	6,463	320.70	487.30	187.38	--	3.0E+01	Trichlorotrifluoroethane

ATTACHMENT E
Vapor Intrusion Assessment

Johnson and Ettinger Model Spreadsheets - Intermediate Calculations

Exposure duration, t (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, q_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, q_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, q_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapo permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. (µg/m³)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)	
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	3.70E+01	1.02E+05	1,1,1-Trichloroethane
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	2.50E+01	1.02E+05	1,1-Dichloroethane
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	6.83E+01	1.02E+05	1,2,4-Trimethylbenzene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	3.80E+01	1.02E+05	1,3-Dichlorobenzene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	6.60E+00	1.02E+05	1,4-Dichlorobenzene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	1.90E+01	1.02E+05	1-Ethyl-4-methylbenzene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	6.90E+00	1.02E+05	1-Propene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	3.60E+02	1.02E+05	2,2,4-Trimethylpentane
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	2.20E+01	1.02E+05	2-Butanone (MEK)
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	8.39E+01	1.02E+05	Acetone
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	5.30E+01	1.02E+05	Benzene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	1.00E+01	1.02E+05	Bromodichloromethane
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	1.70E+01	1.02E+05	Carbon disulfide
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	1.07E+02	1.02E+05	Carbon tetrachloride
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	6.90E+00	1.02E+05	Chlorobenzene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	1.03E+03	1.02E+05	Chloroform
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	2.44E+01	1.02E+05	Chloromethane
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	6.98E+01	1.02E+05	cis-1,2-Dichloroethylene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	1.90E+01	1.02E+05	Cyclohexane
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	4.45E+03	1.02E+05	Ethanol (as methanol)
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	6.04E+01	1.02E+05	Ethylbenzene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	4.60E+01	1.02E+05	Heptane
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	2.61E+03	1.02E+05	Hexachloro-1,3-butadiene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	9.97E+01	1.02E+05	Hexane
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	7.13E+02	1.02E+05	Isopropanol
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	1.32E+04	1.02E+05	Mercury (elemental)
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	4.90E+00	1.02E+05	Methylene chloride
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	3.22E+02	1.02E+05	m-Xylene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	7.21E+01	1.02E+05	o-Xylene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	2.50E+02	1.02E+05	p-Xylene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	2.10E+01	1.02E+05	Tert-butyl alcohol
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	3.76E+03	1.02E+05	Tetrachloroethylene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	7.40E+00	1.02E+05	Tetrahydrofuran
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	3.46E+02	1.02E+05	Toluene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	1.88E+02	1.02E+05	Trichloroethylene
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	6.63E+02	1.02E+05	Trichlorofluoromethane
7.88E+08	46	0.321	0.244	0.244	0.003	9.98E-08	0.998	9.96E-08	4,000	8.05E+02	1.02E+05	Trichlorotrifluoroethane

ATTACHMENT E
Vapor Intrusion Assessment

Johnson and Ettinger Model Spreadsheets - Intermediate Calculations

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, h (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization a ave. soil temperature, $DH_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, m_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)	
1.1E+06	3.8E-04	15	7,853	9.8E-03	4.2E-01	1.8E-04	1.3E-02	0.0E+00	0.0E+00	1.3E-02	46	1,1,1-Trichloroethane
1.1E+06	3.8E-04	15	7,417	3.3E-03	1.4E-01	1.8E-04	1.2E-02	0.0E+00	0.0E+00	1.2E-02	46	1,1-Dichloroethane
1.1E+06	3.8E-04	15	11,654	2.7E-03	1.1E-01	1.8E-04	9.8E-03	0.0E+00	0.0E+00	9.8E-03	46	1,2,4-Trimethylbenzene
1.1E+06	3.8E-04	15	11,143	1.4E-03	6.0E-02	1.8E-04	1.1E-02	0.0E+00	0.0E+00	1.1E-02	46	1,3-Dichlorobenzene
1.1E+06	3.8E-04	15	11,212	1.1E-03	4.6E-02	1.8E-04	1.1E-02	0.0E+00	0.0E+00	1.1E-02	46	1,4-Dichlorobenzene
1.1E+06	3.8E-04	15	10,220	3.6E-03	1.5E-01	1.8E-04	1.1E-02	0.0E+00	0.0E+00	1.1E-02	46	1-Ethyl-4-methylbenzene
1.1E+06	3.8E-04	15	0	6.3E-01	2.7E+01	1.8E-04	1.6E-03	0.0E+00	0.0E+00	1.6E-03	46	1-Propene
1.1E+06	3.8E-04	15	15,308	1.5E+00	6.5E+01	1.8E-04	1.6E-02	0.0E+00	0.0E+00	1.6E-02	46	2,2,4-Trimethylpentane
1.1E+06	3.8E-04	15	8,382	3.1E-05	1.3E-03	1.8E-04	1.3E-02	0.0E+00	0.0E+00	1.3E-02	46	2-Butanone (MEK)
1.1E+06	3.8E-04	15	7,522	2.3E-05	9.7E-04	1.8E-04	2.0E-02	0.0E+00	0.0E+00	2.0E-02	46	Acetone
1.1E+06	3.8E-04	15	8,091	3.1E-03	1.3E-01	1.8E-04	1.4E-02	0.0E+00	0.0E+00	1.4E-02	46	Benzene
1.1E+06	3.8E-04	15	8,636	8.7E-04	3.7E-02	1.8E-04	4.8E-03	0.0E+00	0.0E+00	4.8E-03	46	Bromodichloromethane
1.1E+06	3.8E-04	15	6,659	1.9E-02	8.0E-01	1.8E-04	1.7E-02	0.0E+00	0.0E+00	1.7E-02	46	Carbon disulfide
1.1E+06	3.8E-04	15	7,828	1.7E-02	7.4E-01	1.8E-04	1.3E-02	0.0E+00	0.0E+00	1.3E-02	46	Carbon tetrachloride
1.1E+06	3.8E-04	15	9,773	1.8E-03	7.9E-02	1.8E-04	1.2E-02	0.0E+00	0.0E+00	1.2E-02	46	Chlorobenzene
1.1E+06	3.8E-04	15	7,523	2.1E-03	9.2E-02	1.8E-04	1.7E-02	0.0E+00	0.0E+00	1.7E-02	46	Chloroform
1.1E+06	3.8E-04	15	4,712	6.3E-03	2.7E-01	1.8E-04	2.0E-02	0.0E+00	0.0E+00	2.0E-02	46	Chloromethane
1.1E+06	3.8E-04	15	7,704	2.4E-03	1.0E-01	1.8E-04	1.2E-02	0.0E+00	0.0E+00	1.2E-02	46	cis-1,2-Dichloroethylene
1.1E+06	3.8E-04	15	8,196	5.8E-02	2.5E+00	1.8E-04	1.2E-02	0.0E+00	0.0E+00	1.2E-02	46	Cyclohexane
1.1E+06	3.8E-04	15	11,796	2.0E-06	8.4E-05	1.8E-04	2.4E-02	0.0E+00	0.0E+00	2.4E-02	46	Ethanol (as methanol)
1.1E+06	3.8E-04	15	10,121	3.8E-03	1.6E-01	1.8E-04	1.2E-02	0.0E+00	0.0E+00	1.2E-02	46	Ethylbenzene
1.1E+06	3.8E-04	15	8,418	9.2E-01	3.9E+01	1.8E-04	1.5E-02	0.0E+00	0.0E+00	1.5E-02	46	Heptane
1.1E+06	3.8E-04	15	12,681	3.3E-03	1.4E-01	1.8E-04	9.1E-03	0.0E+00	0.0E+00	9.1E-03	46	Hexachloro-1,3-butadiene
1.1E+06	3.8E-04	15	7,697	9.6E-01	4.1E+01	1.8E-04	3.2E-02	0.0E+00	0.0E+00	3.2E-02	46	Hexane
1.1E+06	3.8E-04	15	12,498	3.6E-06	1.5E-04	1.8E-04	1.3E-02	0.0E+00	0.0E+00	1.3E-02	46	Isopropanol
1.1E+06	3.8E-04	15	15,308	3.6E-03	1.5E-01	1.8E-04	5.0E-03	0.0E+00	0.0E+00	5.0E-03	46	Mercury (elemental)
1.1E+06	3.8E-04	15	7,002	1.3E-03	5.7E-02	1.8E-04	1.6E-02	0.0E+00	0.0E+00	1.6E-02	46	Methylene chloride
1.1E+06	3.8E-04	15	10,220	3.6E-03	1.5E-01	1.8E-04	1.1E-02	0.0E+00	0.0E+00	1.1E-02	46	m-Xylene
1.1E+06	3.8E-04	15	10,370	2.5E-03	1.1E-01	1.8E-04	1.4E-02	0.0E+00	0.0E+00	1.4E-02	46	o-Xylene
1.1E+06	3.8E-04	15	10,213	3.7E-03	1.6E-01	1.8E-04	1.2E-02	0.0E+00	0.0E+00	1.2E-02	46	p-Xylene
1.1E+06	3.8E-04	15	0	6.7E-05	2.9E-03	1.8E-04	1.4E-02	0.0E+00	0.0E+00	1.4E-02	46	Tert-butyl alcohol
1.1E+06	3.8E-04	15	9,523	9.4E-03	4.0E-01	1.8E-04	1.2E-02	0.0E+00	0.0E+00	1.2E-02	46	Tetrachloroethylene
1.1E+06	3.8E-04	15	0	7.0E-05	3.0E-03	1.8E-04	1.6E-02	0.0E+00	0.0E+00	1.6E-02	46	Tetrahydrofuran
1.1E+06	3.8E-04	15	9,122	3.5E-03	1.5E-01	1.8E-04	1.4E-02	0.0E+00	0.0E+00	1.4E-02	46	Toluene
1.1E+06	3.8E-04	15	8,520	5.6E-03	2.4E-01	1.8E-04	1.3E-02	0.0E+00	0.0E+00	1.3E-02	46	Trichloroethylene
1.1E+06	3.8E-04	15	6,124	6.3E-02	2.7E+00	1.8E-04	1.4E-02	0.0E+00	0.0E+00	1.4E-02	46	Trichlorofluoromethane
1.1E+06	3.8E-04	15	6,931	2.9E-01	1.3E+01	1.8E-04	1.3E-02	0.0E+00	0.0E+00	1.3E-02	46	Trichlorotrifluoroethane

ATTACHMENT E
Vapor Intrusion Assessment

Johnson and Ettinger Model Spreadsheets - Intermediate Calculations

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, a (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	
15	3.70E+01	0.10	8.33E+01	1.26E-02	4.00E+02	5.68E+71	6.37E-04	2.36E-02	--	5.0E+00	1,1,1-Trichloroethane
15	2.50E+01	0.10	8.33E+01	1.20E-02	4.00E+02	2.69E+75	6.30E-04	1.57E-02	1.6E-06	--	1,1-Dichloroethane
15	6.83E+01	0.10	8.33E+01	9.80E-03	4.00E+02	2.28E+92	5.99E-04	4.09E-02	--	7.0E-03	1,2,4-Trimethylbenzene
15	3.80E+01	0.10	8.33E+01	1.12E-02	4.00E+02	7.57E+80	6.19E-04	2.35E-02	--	8.0E-01	1,3-Dichlorobenzene
15	6.60E+00	0.10	8.33E+01	1.12E-02	4.00E+02	1.30E+81	6.19E-04	4.09E-03	1.1E-05	8.0E-01	1,4-Dichlorobenzene
15	1.90E+01	0.10	8.33E+01	1.13E-02	4.00E+02	9.01E+79	6.21E-04	1.18E-02	--	7.0E-03	1-Ethyl-4-methylbenzene
15	6.90E+00	0.10	8.33E+01	1.60E-03	4.00E+02	#NUM!	2.52E-04	1.74E-03	--	3.0E+00	1-Propene
15	3.60E+02	0.10	8.33E+01	1.62E-02	4.00E+02	9.30E+55	6.70E-04	2.41E-01	--	7.0E-01	2,2,4-Trimethylpentane
15	2.20E+01	0.10	8.33E+01	1.31E-02	4.00E+02	1.78E+69	6.42E-04	1.41E-02	--	5.0E+00	2-Butanone (MEK)
15	8.39E+01	0.10	8.33E+01	2.01E-02	4.00E+02	1.33E+45	6.94E-04	5.83E-02	--	3.1E+01	Acetone
15	5.30E+01	0.10	8.33E+01	1.42E-02	4.00E+02	3.99E+63	6.54E-04	3.46E-02	7.8E-06	3.0E-02	Benzene
15	1.00E+01	0.10	8.33E+01	4.82E-03	4.00E+02	6.44E+187	4.68E-04	4.68E-03	3.7E-05	--	Bromodichloromethane
15	1.70E+01	0.10	8.33E+01	1.68E-02	4.00E+02	6.54E+53	6.75E-04	1.15E-02	--	7.0E-01	Carbon disulfide
15	1.07E+02	0.10	8.33E+01	1.26E-02	4.00E+02	5.68E+71	6.37E-04	6.82E-02	6.0E-06	1.0E-01	Carbon tetrachloride
15	6.90E+00	0.10	8.33E+01	1.18E-02	4.00E+02	4.67E+76	6.27E-04	4.33E-03	--	5.0E-02	Chlorobenzene
15	1.03E+03	0.10	8.33E+01	1.68E-02	4.00E+02	6.54E+53	6.75E-04	6.95E-01	2.3E-05	9.8E-02	Chloroform
15	2.44E+01	0.10	8.33E+01	2.04E-02	4.00E+02	2.63E+44	6.96E-04	1.70E-02	--	9.0E-02	Chloromethane
15	6.98E+01	0.10	8.33E+01	1.19E-02	4.00E+02	1.11E+76	6.29E-04	4.39E-02	--	--	cis-1,2-Dichloroethylene
15	1.90E+01	0.10	8.33E+01	1.19E-02	4.00E+02	1.40E+76	6.28E-04	1.19E-02	--	6.0E+00	Cyclohexane
15	4.45E+03	0.10	8.33E+01	2.43E-02	4.00E+02	1.53E+37	7.14E-04	3.18E+00	--	4.0E+00	Ethanol (as methanol)
15	6.04E+01	0.10	8.33E+01	1.21E-02	4.00E+02	4.21E+74	6.31E-04	3.81E-02	2.5E-06	1.0E+00	Ethylbenzene
15	4.60E+01	0.10	8.33E+01	1.50E-02	4.00E+02	2.76E+60	6.60E-04	3.04E-02	--	7.0E-01	Heptane
15	2.61E+03	0.10	8.33E+01	9.07E-03	4.00E+02	5.83E+99	5.86E-04	1.53E+00	2.2E-05	--	Hexachloro-1,3-butadiene
15	9.97E+01	0.10	8.33E+01	3.23E-02	4.00E+02	9.64E+27	7.37E-04	7.35E-02	--	7.0E-01	Hexane
15	7.13E+02	0.10	8.33E+01	1.30E-02	4.00E+02	6.64E+69	6.41E-04	4.57E-01	--	7.0E+00	Isopropanol
15	1.32E+04	0.10	8.33E+01	4.96E-03	4.00E+02	2.03E+182	4.74E-04	6.26E+00	--	3.0E-04	Mercury (elemental)
15	4.90E+00	0.10	8.33E+01	1.63E-02	4.00E+02	2.59E+55	6.71E-04	3.29E-03	4.7E-07	1.0E+00	Methylene chloride
15	3.22E+02	0.10	8.33E+01	1.13E-02	4.00E+02	9.01E+79	6.21E-04	2.00E-01	--	7.0E-01	m-Xylene
15	7.21E+01	0.10	8.33E+01	1.41E-02	4.00E+02	2.15E+64	6.52E-04	4.70E-02	--	7.0E-01	o-Xylene
15	2.50E+02	0.10	8.33E+01	1.24E-02	4.00E+02	6.04E+72	6.35E-04	1.59E-01	--	7.0E-01	p-Xylene
15	2.10E+01	0.10	8.33E+01	1.38E-02	4.00E+02	5.16E+65	6.49E-04	1.36E-02	--	3.1E+01	Tert-butyl alcohol
15	3.76E+03	0.10	8.33E+01	1.16E-02	4.00E+02	5.42E+77	6.25E-04	2.35E+00	5.9E-06	2.7E-01	Tetrachloroethylene
15	7.40E+00	0.10	8.33E+01	1.58E-02	4.00E+02	1.27E+57	6.67E-04	4.94E-03	2.6E-07	3.0E+00	Tetrahydrofuran
15	3.46E+02	0.10	8.33E+01	1.41E-02	4.00E+02	2.15E+64	6.52E-04	2.26E-01	--	5.0E+00	Toluene
15	1.88E+02	0.10	8.33E+01	1.28E-02	4.00E+02	7.02E+70	6.39E-04	1.20E-01	2.0E-06	--	Trichloroethylene
15	6.63E+02	0.10	8.33E+01	1.41E-02	4.00E+02	2.15E+64	6.52E-04	4.32E-01	--	7.0E-01	Trichlorofluoromethane
15	8.05E+02	0.10	8.33E+01	1.26E-02	4.00E+02	5.68E+71	6.37E-04	5.13E-01	--	3.0E+01	Trichlorotrifluoroethane

Appendix P: Ecological Risk Assessment

REMEDIAL INVESTIGATION REPORT
LCP CHEMICALS, INC. SUPERFUND SITE
LINDEN, NEW JERSEY

APPENDIX P
Final Baseline Ecological Risk Assessment

Prepared for:

ISP Environmental Services Inc.
500 Hercules Road
Wilmington, DE 19808-1599

August 2013

Geosyntec consultants

engineers | scientists | innovators

TABLE OF CONTENTS

1. INTRODUCTION 1-1
   1.1 Authority 1-1
   1.2 Baseline Ecological Risk Assessment Purpose and Approach 1-1
   1.3 BERA Organization 1-3

2. SITE DESCRIPTION 2-1
   2.1 Site Location and Setting 2-1
   2.2 Historical Land Use 2-2
      2.2.1 Anthropogenic Fill 2-2
      2.2.2 Historic Site Operations 2-3
   2.3 Surrounding Land Use 2-4
   2.4 Current and Future Land Use 2-5
   2.5 Surface Water Features 2-6
      2.5.1 South Branch Creek 2-6
      2.5.2 Arthur Kill 2-7
      2.5.3 Regional Surface Water Features 2-8
   2.6 Wetlands 2-8
      2.6.1 Wetland Delineation 2-8
      2.6.2 Wetland Mapping 2-9
   2.7 Ecological Setting 2-9
      2.7.1 Ecological Community Types 2-10
      2.7.2 Fauna 2-11
      2.7.3 Species of Special Concern 2-12
   2.8 Summary of Ecological Habitat 2-13

3. STEP 3: BASELINE PROBLEM FORMULATION 3-1
   3.1 Constituents of Potential Ecological Concern 3-1
      3.1.1 Screening Level Approach 3-1
      3.1.2 COPEC Refinement 3-2
   3.2 Complete Exposure Pathways 3-3
      3.2.1 Source and Transport Mechanism 3-4
      3.2.2 Transformation 3-5
      3.2.3 Bioaccumulation 3-5
   3.3 Potential Receptor-Exposure Pathways and Routes 3-6

R2-0006371

TABLE OF CONTENTS (Continued)

3.3.1 South Branch Creek Receptors and Pathways 3-6
3.3.2 Terrestrial Receptors and Pathways 3-7
3.3.3 Receptor Exposure Routes 3-7
3.4 BERA Assessment Endpoints 3-8
3.5 Risk Questions 3-10

4. STEP 4: STUDY DESIGN AND DQO PROCESS OBJECTIVES 4-1
4.1 Measurement Endpoints 4-1
4.2 Ecological WP and SAP 4-3

5. STEP 5: VERIFICATION OF FIELD SAMPLING DESIGN 5-1

6. STEP 6: SITE INVESTIGATION AND DATA ANALYSIS 6-1
6.1 Data Evaluated in the BERA 6-1
6.1.1 Sediment/Bank Soil 6-1
6.1.2 Whole Body Tissue Analysis 6-2
6.1.3 Surface Water 6-3
6.1.4 Upland Area Soil 6-3
6.2 Data Handling 6-4
6.2.1 Duplicate Samples 6-4
6.2.2 Polychlorinated Biphenyls 6-5
6.2.3 Dioxins and Furans 6-6
6.2.4 Modeled Concentrations 6-7
6.3 Additional Ecological Data 6-7
6.3.1 Old Place Creek 6-7
6.3.2 Sediment Toxicity Testing 6-8
6.4 Nature and Extent of Contamination 6-9
6.4.1 South Branch Creek Sediment 6-9
6.4.2 Tissue Data 6-10
6.4.3 South Branch Creek Surface Water 6-12
6.4.4 Upland Area Soil 6-14

7. ECOLOGICAL RISK CHARACTERIZATION 7-1
7.1 Exposure Point Concentrations 7-1
7.2 Benthic Invertebrate Risk Characterization 7-2

R2-0006372

TABLE OF CONTENTS (Continued)

7.3 Estuarine Fish Risk Characterization 7-3
7.4 Wildlife Risk Characterization 7-4
7.4.1 Receptor Exposure Assumptions 7-4
7.4.2 Calculation of Receptor Intakes 7-9
7.4.3 Toxicity Reference Values 7-11
7.4.4 South Branch Creek Wildlife Risk Estimates 7-12
7.4.5 Terrestrial Wildlife Risk Characterization 7-13

8. UNCERTAINTY ASSESSMENT 8-1
8.1 Uncertainty in Data Analysis 8-1
8.1.1 Data Collection 8-1
8.1.2 Constituent Identification 8-2
8.1.3 Potential Data Gaps 8-2
8.2 Uncertainty in Ecological Exposure Assessment 8-3
8.2.1 Conceptual Site Model 8-3
8.2.2 Exposure Point Concentrations 8-3
8.2.3 Wildlife Exposure Factors 8-5
8.3 Uncertainty in Ecological Toxicity Assessment 8-6
8.3.1 Toxicity Reference Values 8-6
8.3.2 Bioavailability 8-7
8.3.3 Acclimation and Adaptation 8-7
8.3.4 Population Uncertainty 8-7
8.4 Risks Relative to Source of Chemicals 8-8

9. BERA SUMMARY AND CONCLUSIONS 9-1

10. REFERENCES 10-1

R2-0006373

LIST OF TABLES

Table 1: Chemicals of Potential Ecological Concern for South Branch Creek
Table 2: Chemicals of Potential Ecological Concern for the Upland Area
Table 3: Summary of BERA Assessment and Measurement Endpoints
Table 4: Summary Statistics for South Branch Creek Sediment Data
Table 5: Summary Statistics for South Branch Creek Fiddler Crab Tissue Data
Table 6: Summary Statistics for South Branch Creek of Mummichog Tissue Data
Table 7: Summary Statistics for South Branch Creek Surface Water Data
Table 8: Summary Statistics for Upland Area Soil Data
Table 9: Biota-Sediment Accumulation Factors for South Branch Creek COPECs
Table 10: Biota-Soil Accumulation Factors for Upland Area COPECs
Table 11: Exposure Point Concentrations for South Branch Creek
Table 12: Exposure Point Concentrations for the Upland Area
Table 13: Sediment Benchmarks – Benthic Invertebrates
Table 14: Comparison of Sediment Concentrations to Benthic Invertebrate Benchmarks
Table 15: Toxicity Reference Values – Estuarine Fish
Table 16: Comparison of Mummichog Concentrations to Tissue TRVs
Table 17: Exposure Assumptions for South Branch Creek Wildlife Receptors
Table 18: Exposure Assumptions for Upland Area Wildlife Receptors
Table 19: NOAEL Toxicity Reference Values – Mammalian Species
Table 20: LOAEL Toxicity Reference Values – Mammalian Species
Table 21: NOAEL Toxicity Reference Values – Avian Species
Table 22: LOAEL Toxicity Reference Values – Avian Species
Table 23: RME Risk Characterization for South Branch Creek – Raccoon
Table 24: CT Risk Characterization for South Branch Creek – Raccoon
Table 25: RME Risk Characterization for South Branch Creek – Mink
Table 26: CT Risk Characterization for South Branch Creek – Mink
Table 27: RME Risk Characterization for South Branch Creek – Spotted Sandpiper
Table 28: CT Risk Characterization for South Branch Creek – Spotted Sandpiper
Table 29: RME Risk Characterization for South Branch Creek – Great Blue Heron

R2-0006374

LIST OF TABLES (CONTINUED)

Table 30: CT Risk Characterization for South Branch Creek –Great Blue Heron
Table 31: Risk Characterization Summary for South Branch Creek Wildlife Receptors
Table 32: RME Risk Characterization for the Upland Area – Short-tailed Shrew
Table 33: CT Risk Characterization for the Upland Area – Short-tailed Shrew
Table 34: RME Risk Characterization for the Upland Area – Red Fox
Table 35: CT Risk Characterization for the Upland Area – Red Fox
Table 36: RME Risk Characterization for the Upland Area – American Woodcock
Table 37: CT Risk Characterization for the Upland Area – American Woodcock
Table 38: RME Risk Characterization for the Upland Area – Red-tailed Hawk
Table 39: CT Risk Characterization for the Upland Area – Red-tailed Hawk
Table 40: Risk Characterization Summary for Upland Area Wildlife Receptors

R2-0006375

LIST OF FIGURES

Figure 1: Site Location

Figure 2: Site Features

Figure 3: Land Use within 1 Mile of the Site

Figure 4: Wetlands Delineation

Figure 5: Ecological Conceptual Site Model

Figure 6: Ecological Sample Locations

LIST OF ATTACHMENTS

Attachment A: Environmental Data Evaluated in the BERA

Attachment B: Old Place Creek Data

Attachment C: ProUCL Output

R2-0006376

LIST OF ACRONYMS AND ABBREVIATIONS

ADD	Average Daily Dose
ARCS	Assessment and Remediation of Contaminated Sediments
ATSDR	Agency for Toxic Substances and Disease Registry
AUF	Area Use Factor
BAF	Biota-Soil Accumulation Factor
BERA	Baseline Ecological Risk Assessment
BSAF	Biota-Sediment Accumulation Factor
BTAG	Biological Technical Assistance Group
CERCLA	Comprehensive Environmental Response Compensation Liability Act
CF	Conversion Factor
Conrail	Consolidated Rail Corporation
COPEC	Constituent of Potential Ecological Concern
CSM	Conceptual Site Model
CT	Central Tendency
DQO	Data Quality Objective
EA	Ecological Assessment
EcolSciences	EcolSciences, Inc
ECRA	Environmental Cleanup Responsibility Act
EPC	Exposure Point Concentrations
ERAGS	Ecological Risk Assessment Guidance for Superfund
FS	Feasibility Study
ft bgs	Feet Below Ground Surface
GIS	Geographic Information System
Geosyntec	Geosyntec Consultants, Inc.
HQ	Hazard Quotient
IES	ISP Environmental Services, Inc
LCP Site	LCP Chemicals, Inc. Superfund Site
LOI	Letter of Interpretation Verification
LOAEL	Lowest Observable Adverse Effect Level
MDL	Method Detection Limit
NJDEP	New Jersey Department of Environmental Protection
NJDOT	New Jersey Department of Transportation
NOAA	National Oceanic and Atmospheric Administration

R2-0006377

LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

NOAEL	No Observable Adverse Effect Level
NWI	National Wetland Inventory
Order	CERCLA-02-99-2015
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
RI	Remedial Investigation
RIWP	Remedial Investigation Work Plan
RME	Reasonable Maximum Exposed
SAP	Sampling and Analysis Plan
Site	LCP Chemicals, Inc. Superfund Site
SLERA	Screening Level Ecological Risk Assessment
SMDP	Scientific Management Decision Point
TCC	The Chazen Companies
TCE	Trichloroethylene
TCDD	Tetrachlorodibenzo-p-dioxin
TEC	Toxic Equivalency Concentration
TEF	Toxic Equivalency Factor
TRV	Toxicity Reference Value
TUF	Temporal Use Factor
UCL	Upper Confidence Limit on the Mean
USEPA	United States Environmental Protection Agency
USFWS	US Fish and Wildlife Service
USGS	United States Geological Survey
WHO	World Health Organization
WP	Work Plan

R2-0006378

1. INTRODUCTION

On behalf of ISP Environmental Services Inc. (IES), Geosyntec Consultants, Inc. (Geosyntec) has prepared this Final Baseline Ecological Risk Assessment (BERA) for the LCP Chemicals, Inc. Superfund Site located in Linden, New Jersey (herein referred to as the LCP Site or the Site). The BERA is a companion document to the Remedial Investigation (RI) Report prepared and submitted by Brown and Caldwell in July 2013. Portions of the RI Report relevant to the evaluation of ecological risks are summarized herein; however, the full context of the site-specific information requires the BERA to be evaluated in light of the complete RI Report. Therefore, the reader should refer to the RI Report for a more comprehensive presentation and analysis of the Phase I (2001-2002) and Phase II (2006-2007) RI data.

A Draft BERA was submitted to the United States Environmental Protection Agency (USEPA) in September 2008. The USEPA provided comments on the Draft BERA in a letter dated May 14, 2009. Geosyntec provided responses to the USEPA's comments in a letter dated July 3, 2009. In a letter dated January 16, 2013, the USEPA indicated that with a few exceptions, the responses were acceptable; where the USEPA found the comment to be unresolved, the original comment was reiterated. This version includes changes to address all USEPA comments on the BERA.

1.1 Authority

As agreed to in a March 2006 meeting with USEPA, IES has conducted a risk assessment for the Site as a component of the RI pursuant to USEPA Administrative Order No. II CERCLA-02-99-2015 (hereinafter referred to as the Order). The stated purpose of the Order was to:

> "(a)… conduct a remedial investigation ("RI") to determine the nature and extent of contamination and any threat to the public health, welfare, or the environment caused by the release or threatened release of hazardous substances, pollutants or contaminants at or from the Site; (b) to determine and evaluate alternatives, through the conduct of a feasibility study ("FS"), to remediate said release or threatened release of hazardous substances, pollutants, or contaminants; (c) to provide for the reimbursement to EPA of response and oversight costs incurred by EPA with respect to the Site; and (d) to provide for reimbursement to EPA of response costs incurred by EPA at the Site prior to the effective date of this Consent Order."

1.2 Baseline Ecological Risk Assessment Purpose and Approach

The purpose of an ecological risk assessment is to evaluate the likelihood that adverse ecological effects are occurring or may potentially occur as a result of the site-specific

R2-0006379

constituent concentrations remaining from historic site-related activities. As a baseline assessment, this report is intended to conservatively characterize ecological risk based on potential wildlife exposures to environmental media at the Site under current conditions (i.e., non-remediated conditions).

The results of this, or any other risk assessment, should be viewed in the context of the risk assessment process before drawing any conclusions regarding the Site. Risk assessment is a regulatory process that is used to determine if levels of environmental constituents pose an unacceptable risk, which is often defined by regulatory standards and requirements. For example, food chain models are the metric used in this BERA to evaluate risks to wildlife receptors. Food chain estimated risks are calculations based on models, which incorporate information about the ecotoxicity of chemicals with the life history of wildlife receptors to estimate a theoretical level of risk associated with levels of environmental constituents. Because these risk estimates are based on models, they may not necessarily be predictive of actual Site risks. Many of the toxicity and exposure assumptions incorporated into the models are selected to provide conservative estimates in order to err on the side of safety. Furthermore, these models and resultant risk estimates do not incorporate information about population dynamics and therefore cannot assess population-level effects. Ecological receptors selected for the analysis may or may not be present on the Site, but reflect species that have the potential for occurrence.

This ecological risk assessment was performed in accordance with the *USEPA Ecological Risk Assessment Guidance for Superfund* (ERAGS; USEPA, 1997) eight-step paradigm for evaluating potential ecological risk from exposure to chemicals in the environment. These steps are:

- Step 1 - Screening-Level Problem Formulation;
- Step 2 - Screening-Level Exposure Estimate and Risk Calculation;
- Step 3 - Baseline Problem Formulation;
- Step 4 - Study Design and Data Quality Objective (DQO) Process;
- Step 5 - Verification of Field Sampling Design;
- Step 6 - Site Investigation and Data Analysis;
- Step 7 - Risk Characterization; and
- Step 8 - Risk Management.

R2-0006380

Steps 1 and 2 were presented in the Screening Level Ecological Risk Assessment (SLERA) submitted by CDM to the USEPA on May 11, 2004 as part of the RI. Upon completion of Steps 1 and 2, there was a Scientific Management Decision Point (SMDP) with three possible decisions:

1. There is enough information to conclude that potential ecological risks are very low or nonexistent, and therefore no further action is warranted at the site on the basis of ecological risk;
2. The information is not adequate to make a decision at this point, and the ecological risk assessment process will proceed to a BERA (i.e., Steps 3 through 8); or
3. The information indicates a potential for adverse ecological effects, and a more thorough study is necessary (conduct a BERA).

The SLERA indicated a potential for adverse ecological effects and a more thorough study was recommended (Option 3 above). Brown and Caldwell submitted a document to USEPA in October 2006 which presented the revised Problem Formulation and preliminary Study Design for the BERA (Step 3 and part of Step 4). Steps 4, 5, and 6 were subsequently completed by Brown and Caldwell as part of the RI Phase II Sampling Event. This document presents through Step 7 of the eight-step process; Step 8, Risk Management, is typically addressed in the Feasibility Study (FS).

1.3 BERA Organization

The content and organization of this document is described below:

- ***Section 1, Introduction***, presents the project background and scope, and the purpose and approach for conducting the BERA.
- ***Section 2, Site Description***, provides a description of the Site location and setting, and ecological characteristics of the Site.
- ***Section 3, Step 3: Baseline Problem Formulation***, presents the constituents of potential ecological concern (COPECs), exposure pathways, assessment endpoints, and risk questions to be addressed in the BERA.
- ***Section 4, Step 4: Study Design and DQO Process Objectives***, describes the measurement endpoints selected to evaluate the assessment endpoints selected in Section 3. The study design and process objectives are also presented.

R2-0006381

- ***Section 5, Step 5: Verification of Field Sampling Design***, provides documentation that the field sampling program can be conducted as planned.
- ***Section 6, Step 6: Site Investigation and Data Analysis***, presents the locations and results for the data utilized in the BERA.
- ***Section 7, Step 7: Ecological Risk Characterization***, presents the risk calculation methodology, ecological exposure assumptions, and potential ecological risk estimates for receptors potentially exposed to constituents at the Site.
- ***Section 8, Uncertainty Assessment,*** discusses the key factors and assumptions that contribute to the uncertainty in the risk assessment.
- ***Section 9, BERA Summary and Conclusions***, summarizes the results of the ecological risk assessment.
- ***Section 10, References***, lists the literature cited in the report.

R2-0006382

2. SITE DESCRIPTION

2.1 Site Location and Setting

The LCP Site is located in the Tremley Point section of the City of Linden, Union County, New Jersey. The Site is located along the western shore of the Arthur Kill and east of the New Jersey Turnpike as shown on Figure 1. The Site is accessed from the Road to Grasselli, which is reached from Linden via South Wood Avenue and Tremley Point Road. The coordinates of the approximate center of the Site are Latitude 40.60832º and Longitude -74.21163º.

The Site was formerly an industrial complex with chemical manufacturing operations. A mercury-cell, chlorine production (chlor-alkali) facility was operated at the Site from 1955 until cessation of manufacturing operations in 1985, and included a mercury-cell chlorine process area, hydrogen gas processing plant, and sodium hypochlorite manufacturing area. The Site was also used as a terminal for products produced at other facilities and various other industrial operations. In addition, a variety of tenants operated on-site until the Site was closed in August 1994.

The Site is bisected by an inactive railroad spur running north and south that is located on an easement and is operated by the Consolidated Rail Corporation (Conrail). The LCP chlor-alkali manufacturing facility was formerly housed in a group of buildings located immediately west of the railroad tracks. The mercury cell buildings (No. 230 and 240) and the liquefaction building (No. 231) are shown on Figure 2.

The current alignment of a man-made ditch, known as South Branch Creek, is located east of the railroad tracks along a narrow portion of the property that connects to the Arthur Kill. Occupying most of the remaining portion of the property east of the railroad tracks is a closed Resource Conservation and Recovery Act (RCRA) unit, a cooling tower, and the pad for a former sludge roaster. The closed RCRA unit is currently maintained by IES.

West of the railroad tracks there are numerous buildings and tanks associated with the LCP Chemicals, Inc. facility and its tenants. Several buildings also exist on the property that were part of associated processes leased and operated by other companies, including the Linde hydrogen plant predominantly on the western portion of the property, and the Kuehne Chemicals sodium hypochlorite and chlorine packaging facility. Other notable Site features on the western portion of the Site include an electrical transformer and rectifier yards and an on-site railroad yard. Additionally, engineering and institutional controls consisting of a 0.7-acre asphalt cap and deed restriction were placed on the western portion of the property by former tenant Linde in

R2-0006383

1994 pursuant to the New Jersey Department of Environmental Protection (NJDEP) Environmental Cleanup Responsibility Act (ECRA) Site No. 90367.

The area surrounding the LCP Site was historically developed for heavy industrial use, much of which is currently inactive and/or decommissioned. Primary current, active land use in the area is bulk storage and transport of petroleum products and aggregates.

Most of the region, including the Site, is highly industrial and consists of land that has been created through the filling of low-lying areas. The Arthur Kill is a large navigable, tidal straight that is tidally influenced from the New York Harbor and the Atlantic Ocean. Likewise, the Rahway River to the south is a tidally influenced tributary of the Arthur Kill traveling through an industrial area. Background contaminant conditions and contributions to the sediments from many sources are widespread. There are numerous NJDEP-contaminated sites in the region, in addition to the LCP Site, many of which have the highest remedial level designations of "C3" and "D," indicating high levels of multiple contaminants that may be impacting surface water and groundwater. Additionally, there are a number of sites within the Newark Bay complex with extremely high mercury levels that may influence levels in Arthur Kill (NJDEP, 2002). In addition, the New Jersey Turnpike, completed in 1954, crosses Piles Creek west of the GAF site. The Turnpike is a regional source of contaminants typical of road runoff, such as heavy metals (particularly lead), biological oxygen demand (BOD)/chemical oxygen demand (COD), nutrients, oil and grease, polycyclic aromatic hydrocarbons (PAHs), pesticides, herbicides, and polychlorinated biphenyls (PCBs), as well as of contaminants released through spills and accidents on the roadways.

2.2 Historical Land Use

The text in this section has been adopted from the document titled, "Work Plan, Remedial Investigation and Feasibility Study" (URS, October 6, 2000), and updated to reflect information obtained from available sources. Much of the historic information presented herein is compiled from documents dating back to 1975 and earlier. Within these documents, there are some contradictions concerning the past operations of the Site. The problem is compounded by the fact that much of LCP Chemicals, Inc.'s records were lost or destroyed sometime in the 1980s (Eder, September 1993). Every attempt has been made to resolve these differences through the acquisition of government agency and other records.

2.2.1 Anthropogenic Fill

The entire area of the LCP Site and most of the area surrounding the Site formerly consisted of low-lying areas. It was necessary to raise the grade prior to the

R2-0006384

development of these areas for industrial and other uses. This was accomplished through the placement of non-indigenous materials, that is, materials not originally native to the Site, including soil, ash, dredge spoil, demolition debris, and other materials. This material is referred to in this report as "anthropogenic fill," namely, fill material that has been placed by humans. The placement of fill in the Tremley Point area allowed for the industrial development of the peninsula.

The presence of anthropogenic fill at the Site has been verified by evaluation of soils encountered as part of the extensive soil boring program, which was completed as part of Phase I and II of the RI, as well as prior subsurface investigations conducted by others. This observation has been independently confirmed through an evaluation of the historic placement of anthropogenic fill identified on available historic maps and aerial photographs. Briefly, these sources reveal that the entire area was formerly occupied by tidal marsh which was progressively filled starting around 1885. By the time the LCP Site's mercury cell chlorine production began in 1955, most of the property appears to have been filled. A chronologic description of the placement of anthropogenic fill is provided in Section 2.1.1 of the RI Report.

The fill ranges in thickness from 1 to 16 feet, with an average thickness of approximately 9 feet and consists of an irregular mixture that is primarily soil but is characterized by the frequent presence of anthropogenic materials, including ash, wood fragments, bricks, and glass. The anthropogenic fill found on the LCP Site and the Site vicinity meets the definition of "Historic Fill" contained in the New Jersey "Technical Requirements for Site Remediation" (New Jersey Administrative Code [N.J.A.C. 7:26E-1.8]) and has been mapped as "Historic Fill" by NJDEP.

2.2.2 Historic Site Operations

At the time of LCP Chemicals, Inc.'s mercury cell chlorine production, there were three main operating centers at the Site: the mercury cell chlorine process area, the hydrogen gas processing plant, and the sodium hypochlorite manufacturing area. Materials needed for processing were shipped in by barge, rail, or by truck. Storage and distribution of chlorine and its related products (including methylene chloride and potassium hydroxide) occurred on this Site throughout its history. The manufacturing operations were subject to periodic shutdowns due to changes in market demands for chlorine production. Processes by which the chlorine and its by-products were created are summarized in the following subsections for the three main operating centers and described in detail in Section 1.3.2 of the RI Report.

R2-0006385

2.2.2.1 **Mercury Cell Chlorine Process Area**

The mercury cell was an industrial system that split common salt molecules (NaCl) to produce chlorine gas. A typical mercury cell process used electrolysis to split the salt solution. An electric current was passed through the salt solution (brine) between a graphite anode and a mercury cathode to produce chlorine gas and sodium. The sodium dissolved into the mercury and the sodium-mercury mixture was made to react with water to produce sodium hydroxide and hydrogen gases. All of the material from this process, including the spent brine, hydrogen gas, and sodium hydroxide, contained residual amounts of mercury. The mercury was separated from the resulting chlorine and hydrogen gas and sodium hydroxide, which were packaged for sale for additional processing and/or for distribution.

2.2.2.2 **Linde Division Hydrogen Plant**

Hydrogen was supplied from the mercury cells to the plant via overhead pipes. The gas was purified by Union Carbide Corporation (UCC) to remove additional residual mercury (reportedly, at least five pounds of mercury was removed from the gas stream daily), stored, compressed, and shipped by trailer. UCC, in their 104(e) response claims that one disposal method for the Linde Division waste mercury was to give it to employees for resale.

2.2.2.3 **Hypochlorite Facility**

The manufacturing plant received its raw materials, chlorine and sodium hydroxide, from the LCP chlorine plant via overhead pipes. The raw materials were utilized by Kuehne to produce sodium hypochlorite (bleach). Chlorine, sodium hydroxide, hydrochloric acid, and sodium hypochlorite were also stored and distributed by Kuehne. Kuehne Chemical Inc. had vacated the Site by February 1981. It is likely Kuehne mercury waste was disposed of along with the LCP mercury waste.

2.3 <u>Surrounding Land Use</u>

The area surrounding the LCP Site historically was developed for heavy industrial use, much of which is currently inactive. A map depicting land use as of 2002 is presented in Figure 3. The map was developed based on Geographic Information System (GIS) data layers obtained from the NJDEP.

The current primary active land use in the area is bulk storage and transport of petroleum products and aggregates. The transport of these materials occurs by ship and barge using dockage along the Arthur Kill as well as by rail, truck, and pipeline. Other

R2-0006386

active facilities in the area include a municipal wastewater treatment plant, trucking and warehousing, and truck repair. An active, major rail freight line runs parallel to the eastern side of the New Jersey Turnpike, west of the Site. A number of large chemical manufacturing facilities formerly operated within one mile of the Site, most of which are currently inactive and in various stages of demolition and site remediation.

The industrial properties located immediately adjacent to the LCP Site include:

- NuStar Energy-Linden Terminal located north and south of South Branch Creek to the east of the inactive Conrail railroad spur.
- The former GAF site manufacturing facility to the north.
- Citgo Petroleum Corp, Linden Transload Terminal located to the south and southwest.
- Linden-Roselle Sewerage Authority sludge barge dock located southeast of the site along the Arthur Kill.

Various undeveloped areas are located within one mile of the Site, many of which are either vacant former chemical manufacturing plants or tidal areas. The former manufacturing areas are depicted on the Land Use map (Figure 3) either as "Industrial," "Undeveloped/Barren/Field," and/or "Scrubland." Areas of tidal wetlands, some of which are partially filled, are located along the Rahway River to the south and Piles Creek to the north. Pralls Island, a former wildlife sanctuary that has since been deforested, is located northeast of the Site and across the Arthur Kill in Richmond County, New York. The City of New York, Department of Sanitation Fresh Kills Landfill, is located approximately three miles south of the Site.

Most of the currently or formerly developed land in the vicinity is located on what has been mapped by the New Jersey Geologic Survey (2005) as "Historic Fill" in accordance with the New Jersey Site Remediation Act (N.J.S.A.) 58:10B-1 et seq. Additional information regarding anthropogenic fill is presented in Section 2.2.1.

The only area of residential development within one mile of the Site is the Tremley section of Linden which is located west of the New Jersey Turnpike approximately 3,850 feet (¾ mile) from the nearest (western) edge of the LCP Site.

2.4 Current and Future Land Use

The LCP Site is unoccupied and not used for any operational purposes. The Site is zoned heavy industrial. Major features of the Site include the man-made ditch known

R2-0006387

as South Branch Creek (see Section 2.5.1), which connects to the Arthur Kill, a closed RCRA unit maintained by IES, an inactive rail line, numerous abandoned buildings, and a paved cap in the area of the former hydrogen processing buildings.

The Tremley Point area of Linden, located east of the New Jersey Turnpike, is anticipated to undergo brownfields redevelopment on the sites of the former manufacturing facilities. A major transportation infrastructure has been in the planning stages to support this redevelopment. Specifically, New Jersey Department of Transportation (NJDOT, 2008) "Tremley Point Access Local Roadway Improvements", Project ID 9324A is anticipated to be funded as part of the FY 2009 Transportation Capital Program that will consist of a four-lane, 1.1-mile long roadway and bridge to connect Tremley Point with Exit 12 of the New Jersey Turnpike in Carteret. This project is specifically intended to address "the increase in truck traffic anticipated by the redevelopment of the Tremley Point brownfields into more than six million square feet of warehouse and distribution space" (NJDOT, 2008).

Potential future land uses of the LCP site may include power generation, petroleum terminals, warehousing and distribution, and transportation.

2.5 Surface Water Features

2.5.1 South Branch Creek

South Branch Creek, the only water body on-site, is a man-made brackish tidal ditch originating in the central portion of the Site and flowing east over 1,200 feet before discharging into the Arthur Kill. The watercourse is approximately 15 feet wide at the head of the stream and becomes as wide as 30 feet on the eastern end of the Site. It has a large tidal change from low to high tide, in the range of 5 to 5.5 feet, resulting in substantial drainage of South Branch Creek during low tide.

South Branch Creek is known to have had four (4) different alignments, which have been documented in the "Historic Drainage Analysis" report (Brown and Caldwell, Revised October 2006). These alignments include:

> ***Original Natural South Branch Creek.*** The original South Branch Creek, prior to 1947, was a natural tidal creek that existed prior to development of the Tremley Point area and placement of anthropogenic fill in the area. This original channel was progressively filled after it was replaced by the man-made channels that were constructed since 1951.

R2-0006388

***Western Man-Made Channel* – 1947.** The portion of South Branch Creek located west of the railroad tracks looped to the south around the future LCP Site from 1951 to 1966. The original natural portion of South Branch Creek located west of the railroad tracks was subsequently filled between approximately 1947 through 1952.

***Western Man-Made Channel* – 1966.** The man-made channel located west of the tracks was replaced by a covered channel (flume), replacing the southern loop around the LCP Site. This flume was located along the northern edge of the LCP Site property.

***Eastern Man-Made Channel* – 1971.** The current man-made channel was constructed around 1971. It discharges to the Arthur Kill approximately 950 feet south of the former "natural" South Branch Creek channel. It is likely that this man-made channel is underlain by the anthropogenic fill into which it was constructed. The natural eastern South Branch Creek channel was subsequently filled.

The sediment bed in South Branch Creek is composed of a wide variation of sediment types, ranging from organic to clay and silt to gravelly sediment. The banks of South Branch Creek are generally excavated into granular fill soil. Some rip-rap is present along the banks of the creek and some construction debris is present along the bottom and banks of the creek. "Low marsh" soil which is present in narrow bands along the margins of South Branch Creek is generally fine-grained and with a high organic content; this material likely represents sediment that has been deposited along the bank.

2.5.2 Arthur Kill

South Branch Creek discharges into the Arthur Kill, located immediately east of the Site. The Arthur Kill is a large tidal strait that separates Staten Island from mainland New Jersey and is approximately 300 to 600 feet wide and greater than 30 feet deep. A detailed description of the hydrodynamic flow in the Arthur Kill is presented in Section 5.3.4 of the RI Report. The Arthur Kill receives flow from the Site through South Branch Creek and vice versa, but is tidally influenced by the New York Harbor and the Atlantic Ocean. Given the depositional character of the water body, it is necessary to periodically dredge the navigation channels to maintain this important waterway for commercial shipping.

The Arthur Kill is mapped as an estuarine, unconsolidated bottom, subtidal river [E1UBL]. According to the NJDEP, it is classified as a SE3 watercourse. The SE3 classification is given to estuarine waters designated for secondary contact recreation,

R2-0006389

maintenance and migration of fish populations, migration of diadromous fish, maintenance of wildlife, and any other reasonable uses. The stretch of the Arthur Kill adjacent to the Site is classified as SD by the NYSDEC. The SD classification is for saline waters that are suitable for fish survival. This classification is given to waters that, because of natural or man-made conditions, cannot meet the requirements for primary and secondary contact recreation and fish propagation.

2.5.3 Regional Surface Water Features

The LCP Site is almost entirely surrounded by tidal water bodies. Most prominent among these is the Arthur Kill to the east (discussed in the previous section) and Raritan Bay to the south. The Rahway River, with a drainage area of 41 square miles (Rahway River Association, 2008) joins the Arthur Kill just south of the Site. The lower tidal reach of the Rahway River is classified as SE2. The intended uses of SE2 waters include maintenance, migration and propagation of the natural and established biota; migration of diadromous fish; maintenance of wildlife; secondary contact recreation; and any other reasonable uses [N.J.A.C 7:26B-1.12(e)].

Piles Creek is a small tidal creek that connects to the Arthur Kill immediately north of the adjacent GAF site. To the west of the LCP Site is the tidal stream known as Marshes Creek, which is a tributary of the Rahway River. Relatively extensive areas of unfilled tidal marsh exist along the lower reaches of the Rahway River, Marshes Creek, and Piles Creek.

Other tidal streams located further from the LCP Site include Morses Creek and the Elizabeth River which flow into the Arthur Kill north of the Site; and Kings Creek, which is another small tributary of the Rahway River, located west of the Site. A number of tidal creeks enter the Arthur Kill from Staten Island including, from north to south: Old Place Creek, Pralls Creek, Sawmill Creek, Neck Creek, and Fresh Kills. The locations of each of the surface water bodies are depicted on Figure 1.

2.6 <u>Wetlands</u>

2.6.1 Wetland Delineation

Wetland delineation was performed by EcolSciences, Inc., (EcolSciences) in 2006, and a wetland boundary map dated September 16, 2006 was submitted to NJDEP. NJDEP approved the wetland boundaries in a Letter of Interpretation Verification (LOI) dated February 16, 2007. The LOI and the wetland boundary map appear in Appendix E of the RI Report.

R2-0006390

As shown in Figure 4, wetlands at the Site are located in narrow bands along the entire length of South Branch Creek and slightly west from the headwaters, west of the railroad tracks. The maximum distance of the edge of the wetlands from the water's edge in any direction is approximately 100 feet, with most zones extending 25 to 50 feet from the channel. The wetland swath widens as South Branch Creek approaches the Arthur Kill, with the widest area found along the southern bank of the ditch, east of the pipe bridge.

The wetlands bordering South Branch Creek have been adversely impacted due to surrounding land use. The NJDEP determined that the on-site wetland (i.e., South Branch Creek) is of intermediate resource value, thus requiring a 50-foot regulatory buffer. However, the wetlands bordering South Branch Creek are of limited areal extent, providing minimal natural corridor and no natural floodplain. These wetlands exist solely in anthropogenic fill, with no native hydric soils and no natural floodplain. This has resulted in a poor vegetative profile. There is an absence of native woody vegetation, and the disturbance is conducive to a high degree of infiltration by non-native species. The combination of the small corridor and dominance of invasive vegetation have produced a degraded habitat.

2.6.2 Wetland Mapping

According to the NWI digital data provided by the US Fish and Wildlife Service (USFWS), one NWI wetland is mapped within the boundaries of the Site. This wetland, in the locality of South Branch Creek, is mapped as an estuarine, intertidal, emergent, mesohaline, irregularly flooded wetland [E2EM5P]. It is unclear whether the NWI designation refers to a historical alignment of South Branch Creek. A wetland located immediately adjacent to the northwestern Site boundary is mapped as an estuarine, subtidal, unconsolidated bottom, subtidal, excavated wetland [E1UB1x].

According to a GIS dataset provided by the NJDEP, no NJDEP wetlands are mapped on the Site. The closest NJDEP wetland is approximately 100 feet south of the southwestern corner of the Site. This wetland is mapped as a palustrine, emergent, persistent, saturated wetland [PEM1B].

2.7 Ecological Setting

The Chazen Companies (TCC) completed an Ecological Assessment (EA) over a total of eight (8) field days between July 20, 2006 and September 27, 2006. The EA methodology consisted of information gathered from federal, state, and local agencies, supplemented by Site visits designed to identify and characterize the LCP Site's flora

R2-0006391

and fauna. Additionally, the Site was studied for the presence of endangered, threatened, and/or rare species and their habitats.

During field investigations, plant and animal species were inventoried to characterize existing populations, habitats, and communities. The potential for rare plants and animals, as well as general observations regarding overall plant community composition and structure, wetlands, and watercourses, the degree of Site disturbance, and other Site characteristics were noted and recorded during the Site inspection. The LCP Site was transected in its entirety excluding entering hazard zones (i.e., on-site buildings) to ensure that each vegetative community type was surveyed. An EA report was prepared by TCC (2007) and is included as an Appendix F of the RI Report.

In addition to investigating the LCP Site, the other areas within a half-mile perimeter from the LCP Site were investigated to document vegetation and the presence of wildlife species. Moreover, a literature review was conducted to provide supporting documentation for use in the EA. Information gathered included topographic maps, soil and geology maps, aerial photographs, pertinent plant and animal species information (i.e., known species in the area, characteristics required for identification, etc.), historical information, and information on Pralls Island heron rookery.

Overall, the flora and fauna found on the Site are species typically of heavily industrialized areas within intertidal marsh ecosystems. During the EA, three ecological communities with a total of 79 species of plants and 42 species of wildlife were identified within the Site.

2.7.1 Ecological Community Types

The EA identified three ecological community types at the Site. These are:

> ***Successional Old Field*** (Closed RCRA Unit). Bounded within the east-central portion of the Site, this ecological community type consists of a capped brine sludge lagoon that has become vegetated with early successional species. The former brine sludge lagoon has a clean cover and it is a closed RCRA lagoon. Over the years, the cap has become vegetated with early successional species such as daisy fleabane (*Erigeron strigosus*), narrowleaf plantain (*Plantago lanceolata*), clover (*Trifolium sp.*), and brome grass (*Bromus sp.*). A woodchuck burrow (*Marmota monax*) was observed at the western edge of the former brine sludge lagoon.
>
> ***Brackish Tidal Marsh*** (South Branch Creek). Located in the eastern portion of the Site, this ecological community type includes South Branch Creek and its

R2-0006392

banks. Vegetation within this community is dense and dominated by tall graminoids (grasses, herbaceous species). Vegetation along the sides of the ditch consists primarily of common reed (*Phragmites australis*) and smooth cordgrass (*Spartina alternifolia*). Several bird species including a little blue heron (*Egretta caerulea*), green heron (*Butorides virescens*), and swamp sparrow (*Melospiza georgiana*) were observed in this community. Mummichogs (*Fundulus sp.*), fiddler crabs (*Uca pugnax*), and ribbed mussels (*Geukensia demissa*) were relatively abundant (relative to the adjacent on-site areas) in the marsh. Blue crabs (*Callinectes sapidus*) were also noted further out in South Branch Creek, closer to Arthur Kill.

Urban Vacant Lot, With Structures (upland, terrestrial portion of the Site). This ecological community type is located throughout the Site and consists of exposed soil, rubble, and derelict buildings. This community type makes up most of the Site including the production areas. Vegetation is sparse and consists of first successional recruitment species and invasive species typically found in urban areas. Trees are generally sparse and many exist as small saplings. Shrubs account for approximately 1 to 5 percent coverage in this community. The dominant shrub species include groundsel tree (*Baccharis halimifolia*), staghorn sumac (*Rhus typhina*), and white mulberry (*Morus alba*). The groundlayer accounts for approximately 20 to 25 percent of this community and is composed of common milkweed (*Asclepias syriaca*), spotted knapweed (*Centaurea maculosa*), pokeweed (*Phytolacca Americana*), and common plantain (*Plantago major*). Soils in the vicinity of the cell building, where elemental mercury spheres were observed, are considered part of this ecological community type. However, because it was not feasible to analyze these samples with conventional analytical methods, risks cannot be quantitatively evaluated. It is assumed that areas with elemental mercury pose unacceptable risks to potential ecological receptors.

2.7.2 Fauna

The fauna of the Site were also categorized during the on-site investigation. In all, 42 species of wildlife were observed during the Site visit. Six mammalian species were either observed or recognized by their sign on or within the immediate vicinity of the Site. A woodchuck burrow was observed at the former sludge lagoon, a mouse (*Peromyscus sp.*) nest was observed near an abandoned building, a raccoon (*Procyon lotor*) was observed near the abandoned buildings, a red fox (*Vulpes vulpes*) was observed along the railroad tracks, and an eastern cottontail (*Sylvilagus floridanus*) was observed in the vicinity of the Site. No aquatic mammals or endangered, threatened, or

R2-0006393

special concern mammalian species were observed within the Site boundaries. One reptile and one amphibian species, three species of fish, and eight species of crustaceans were observed during the field investigation. On or within the immediate vicinity of the Site, 23 species of birds were observed. Thirteen (13) of the species were observed on-site and 10 species were observed in tidal marshes within one-half mile of the Site. Associations between avian species and their corresponding preferred habitat types were noted during the investigation. All avian species observed are common in New Jersey/New York and are typically found within the communities in which they were observed.

A full list of observed species is provided in the document titled, "LCP Chemicals Inc. Superfund Site, City of Linden, Union County, NJ. Ecological Assessment Report," (TCC, August 2007), which is provided as Appendix F of the RI Report.

Since the Site is located within the Atlantic Coast migration corridor, numerous migrating land and water birds could potentially use the Site or the surrounding area as a stopover/overwintering site. The Atlantic Coast is regularly used by migrating birds and approximately 50 different kinds of landbirds travel this flyway. Flocks of Canada geese (*Branta canadensis*) and mourning doves (*Zenaida macroura*) were observed in mowed fields adjacent to the Site during the field investigations.

2.7.3 Species of Special Concern

No endangered, threatened, or rare species or significant ecological communities have been found within the LCP Site's boundaries, nor are there any records at NJDEP of rare wildlife or plant species or ecological communities within the Site (NJDEP has reported that foraging habitat for several threatened bird species lies within ¼ mile of the Site [black-crowned night heron (*Nycticorax nycticorax*), yellow-crowned night heron (*Nycticorax violacea)*, and colonial water birds], but none of these species have actually been observed). Similarly, NYSDEC indicated that two endangered bird species are located within ¼ mile of the Site (yellow-crowned night heron and pied-billed grebe [*Podilymbus podiceps*]) that were not observed during the EA. South Branch Creek represents low-grade habitat for these species and nesting on-site is therefore not expected. There is also no suitable habitat in the Site area for the two species listed for Union County on the Federal Comprehensive List of Endangered and Threatened species provided on the USFWS's website (bog turtle [*Glyptemys muhlenbergii*] and Indiana bat [*Myotis soldalis*]).

It should also be noted, that the NJDEP was contacted on August 8, 2006, and the NYSDEC was contacted on October 3, 2006, to obtain information concerning known occurrences of endangered, threatened, or rare species located on, or within the vicinity

R2-0006394

of, the Site. Historically Pralls Island, located immediately east of the Site, was forested and used as a rookery by several species. However, in 2007 all vegetative cover suitable for nesting was removed to control an Asian Longhorned Beetle (*Anoplophora glabripennis*) population discovered on the island. In 2007, no active wading bird nests were located within the Arthur Kill or Kill Van Kull. While we understand that there is a desire to recruit nesting waders to the Arthur Kill, the reality is that the decline in nesting activity has been ongoing and currently there are no nesting waders nearby that would utilize South Branch Creek.

Further, as described in the EA, there were no endangered, threatened, or rare wildlife species or significant ecological communities observed within or in the immediate vicinity of the project area. Suitable nesting habitat does not currently exist along South Branch Creek and, given the industrial setting of the Site, will likely never exist. Thus, species of special concern are not likely to be present on-site.

2.8 Summary of Ecological Habitat

Most of the region, including the Site, is highly industrial and consists of land that has been created through the filling of low-lying areas. The fill, which consists of soil and anthropogenic materials, including ash, wood fragments, bricks, and glass, meets the definition of "Historic Fill" as defined by NJDEP. The Arthur Kill, which tidally influences South Branch Creek, is itself influenced from the New York Harbor and the Atlantic Ocean. Likewise, the Rahway River to the south is a tidally influenced tributary of the Arthur Kill that flows through an industrial area. Due to the industrialized nature of the area, background contaminant conditions and contributions to the sediments from other sources are widespread. There are numerous contaminated sites in the region, in addition to the LCP Site, many of which have the highest remedial level designations of "C3" and "D," indicating high levels of multiple contaminants that may be impacting surface and groundwater. Additionally, there are a number of sites within the Newark Bay complex with extremely high mercury levels that may influence levels in the Arthur Kill (NJDEP, 2001). The New Jersey Turnpike, which crosses Piles Creek approximately 800 feet west of the LCP Site dam, is also a regional source of contaminants typical of road runoff, such as heavy metals (particularly lead), BOD/COD, nutrients, oil and grease, PAHs, pesticides, herbicides, and PCBs, as well as of contaminants released through spills and accidents on the roadways.

Although the Site is currently not used for any operational purposes, the upland terrestrial areas remain highly disturbed as a result of historical practices and operations. The majority of the terrestrial area is covered by asphalt pavement and packed gravel, and deteriorating buildings that offer marginal habitat for terrestrial

R2-0006395

wildlife populations (Figure 2). However, the Site may serve as a wildlife corridor for terrestrial species. Abandoned buildings may provide refuge for birds, bats, and insects; however, these structures will likely be demolished during remedial activities. Future land use at the Site is anticipated to be industrial and therefore, unlikely to provide a significant ecological habitat.

As a result of the industrial setting and channel modification, South Branch Creek and the associated wetlands have been adversely impacted by physical alterations at the Site. The combination of the small corridor and dominance of invasive vegetation have produced a degraded habitat. However, the creek supports communities of fish, crabs, and benthic macroinvertebrates. In addition, several species of migratory birds and terrestrial mammals have been observed in the vicinity of the LCP Site. Thus, the creek represents the most widely used of the degraded ecological habitats at the Site.

R2-0006396

3. STEP 3: BASELINE PROBLEM FORMULATION

Brown and Caldwell submitted a draft document to USEPA in October 2006, which presented the revised Baseline Problem Formulation and preliminary Study Design sections of the BERA for the Site. The document covered the components of Step 3 and a portion of Step 4 (through Measurement Endpoint selection) as specified in USEPA's ERAGS (USEPA, 1997). The purpose of this document was to support the development of a field scope for the aquatic sampling component of the Phase II RI Work Plan (RIWP).

The information presented in this section is based on the draft Problem Formulation Document (Brown and Caldwell, 2006), subsequent discussions between Brown and Caldwell, Geosyntec, and IES with USEPA, USFWS, and the mid-Atlantic Biological Technical Assistance Group (BTAG), and agency comments on the Draft BERA.

The objective of Step 3, *Baseline Problem Formulation*, is to refine exposure and toxicity estimates used in the SLERA to provide a more realistic evaluation of potential ecological risks associated with environmental media at the Site. This step focuses the risk assessment based on site-specific information obtained during the ecological characterization and the areas and COPECs identified in the SLERA.

Upon completion of Step 3, there is an SMDP that requires concurrence on four items:

- COPECs;
- potentially complete exposure pathways;
- assessment endpoints; and
- risk questions.

This information is used to revise the ecological conceptual site model (CSM) and select measurement endpoints (Step 4). These four items are discussed in the following sections.

3.1 <u>Constituents of Potential Ecological Concern</u>

3.1.1 Screening Level Approach

In the SLERA (CDM, 2004), exposure point concentrations (EPCs) for each medium and exposure area were compared with conservative ecological screening values to narrow the focus of the SLERA. Chemicals with maximum detected values below applicable screening criteria were not evaluated further unless they were known to

R2-0006397

bioaccumulate. Aquatic/semi-aquatic and terrestrial receptor species were selected to evaluate potential ecological risks associated with South Branch Creek and upland areas of the Site, respectively. Risks to lower trophic-level receptors (i.e., fiddler crabs, estuarine fish, and invertebrates) were evaluated through a direct comparison with screening criteria/guidelines. Risk to upper trophic-level receptors (i.e., piscivores, invertivores, herbivores, and carnivores) were evaluated through food chain modeling.

Pursuant to discussions with the BTAG, EPCs for the SLERA were assumed to be average concentrations. Dose estimation via dietary exposure was determined by multiplying the concentration in environmental substrate (i.e., soil or sediment) by a bioaccumulation factor. It was also assumed that wildlife receptors would consume the surface water of South Branch Creek; however, the salinity of the creek makes this an unlikely scenario.

Dietary doses for each receptor were compared with toxicity values obtained from agency sources. The comparison resulted in a screening-level hazard quotient (HQ) such that:

$$HQ = \text{dietary dose/toxicity value}$$

The USEPA HQ threshold value of 1.0 was used as a screening-level benchmark to identify potential ecological risks. Constituents with HQs greater than or equal to one were identified as COPECs and recommended for further evaluation.

Results of the SLERA indicated that the potential exists for ecological risk at the Site resulting from exposure to chemicals detected in Site sediment, surface water, and soil. Primary ecological risk contributors of the sediment, as determined by food chain exposures, are arsenic and metals (lead, mercury, and zinc). Primary ecological risk contributors of the surface soil, as determined by food chain exposures, are hexachlorobenzene, mercury, and lead.

3.1.2 COPEC Refinement

An initial step in the problem formulation is to refine the list of COPECs, eliminating those that are of negligible risk. Due to the highly impacted nature of the Site and surrounding area, it should be recognized that “negligible risk” is a relative term, and that some of the COPECs eliminated from consideration may have HQs over 1 for some pathways. However, it is neither practical nor desirable to have a large number of endpoints. The purpose of the refinement process is to focus the risk assessment on those chemicals and pathways that are of greatest potential concern, while ensuring that

R2-0006398

there is sufficient information to develop appropriate remedial strategies to protect each potentially impacted ecological system.

Table 1 summarizes the HQ results from the SLERA for South Branch Creek (CDM, 2004). Table 2 summarizes the HQ results from the SLERA for the upland area of the Site. Analytes with HQs greater than 1 are listed in each table with the actual significance of each HQ was evaluated based on the following factors:

- representativeness of the observation (i.e., data distribution);
- degree of elevation compared with naturally occurring levels;
- validity of modeling assumptions and toxicity factors used in the SLERA; and
- biological plausibility.

Tables 1 and 2 also identify those COPECs that are retained for further evaluation in the BERA and the rationale for their inclusion or exclusion. Note that the list of COPECs retained for further evaluation in the BERA includes contaminants associated with historic operations (e.g., mercury) as well as constituents associated with anthropogenic fill (e.g., arsenic) and off-site sources.

3.2 Complete Exposure Pathways

This section presents the refined ecological CSM that identifies potentially complete exposure pathways from site-related chemical sources to potential ecological receptors. The ecological CSM is based on the characterization of ecological habitat at the Site described and is used throughout the RI process to: (i) evaluate the need for additional data collection activities; (ii) evaluate the need for corrective measures; and (iii) provide the framework for the ecological risk assessment.

According to the USEPA (1997), the following elements are necessary to form a complete ecological exposure pathway:

- source of stressors (e.g., historical releases);
- transport mechanism (e.g., deposition or stormwater runoff);
- point of contact for ecological receptors (e.g., sediment, prey items);
- exposure route (e.g., direct contact or food/prey ingestion); and
- receptor biota (e.g., wildlife or soil invertebrates).

R2-0006399

The components of the ecological CSM are described in the following sections and presented diagrammatically in Figure 5.

3.2.1 Source and Transport Mechanism

Detailed information on the first two elements of the CSM – source of stressors and transport mechanisms – is provided in the RI Report. However, because mercury in the aquatic environment (South Branch Creek) represents the greatest ecological risk driver at the Site due to its prevalence and as a result of historic operations and its tendency to bioaccumulation, the movement of mercury through the environment is addressed in this section.

The LCP Site was the location of a mercury cell chlorine (chlor-alkali) facility that operated for approximately 30 years starting in 1955 or 1956. Mercury release over the 30-year operational life of the facility was both atmospheric and via ground discharge (wastewater, spills). Compared with other atmospheric sources of mercury, chlor-alkali facilities are associated with low dispersion and, therefore, concentrated localized mercury impacts. There is substantial visible elemental mercury presence in the immediate area of the former plant. Following deposition, three major fate mechanisms appear to account for the current mercury presence:

- ***Persistence***: mercury remains where it was deposited (as indicated by the current visible mercury presence);
- ***Run-off***: particulate-bound mercury has been entrained via overland and piped discharges (such as the historic City of Linden trunk sewer line) to surface water systems where it exists as sediment or suspended in surface water particulates; and
- ***Vertical migration***: mercury has moved into the subsurface and/or partitioned into groundwater.

These processes also account for the disposition of other LCP site-related constituents. The relative importance of these processes and their historical and current status is detailed further in Section 7 of the RI Report. For ecological receptors, the primary transport mechanisms of concern are runoff of constituents, especially mercury, to South Branch Creek and subsequent transformation (i.e., methylation), and bioaccumulation; these transport pathways are described in the following subsections.

R2-0006400

3.2.2 Transformation

The environmental chemistry of mercury is complex. Mercury in aquatic systems is subject to methylation, forming methyl mercury compounds, predominately monomethylmercury. Methyl mercury is accumulated and retained by aquatic organisms. The biotransformation of inorganic mercury species to methylated organic species in water bodies can occur in both sediment and the water column. Abiotic processes (such as humic and fulvic acids in solution) can also facilitate methylation (USEPA, 1997). Lower pH may promote monomethylated over dimethylated forms (Hinton and Veiga, 2008).

Reduction of Hg^{+2} to elemental mercury is facilitated by humic matter in both aqueous and soil systems (Mauclair et al., 2008). Elemental mercury is stable over a large range of environmental conditions (McComish and Ong, 1988). This property is consistent with the presence of a significant quantity of liquid mercury in LCP Site soils, as indicated by the visual observations. In water, mercury can be hydrolyzed and behave as an acid. Hg_2^{+2} is a weaker acid than Hg^{+2} (McComish and Ong, 1988). Other transformation processes in water include photolytic oxidation and reduction, abiotic oxidation and reduction, and complexation with anions such as chloride, hydroxide, sulfide, and dissolved organic carbon (Knightes, 2008).

PCBs (ATSDR, 2000) and hexachlorobenzene (ATSDR, 2002) are generally resistant to degradation and transformation in the environment.

3.2.3 Bioaccumulation

The tendency for mercury to bioaccumulate is a key characteristic and accounts for its environmental significance. Methylation is the primary mechanisms of mercury entry into the food chain. Methyl mercury is bioavailable and accumulates in fish through the food web. Mercury found in fish muscle tissue is primarily in the methylated form (USEPA, 1997). Studies have shown that earthworms can bioaccumulate mercury in terrestrial systems. This process is strongly associated with the presence of organic acids. There is some evidence that mercury taken up from soils can be methylated in the invertebrate gut (Hinton and Veiga, 2008). Mercury has also been reported to accumulate in the wetland grass plants (spartina) after treatment with methyl mercury solution (Zhu et al., 2004).

Hexachlorobenzene and PCBs are both considered highly bioaccumulative. Along with mercury, they are among the 12 constituents classified by the USEPA as priority PBT (persistent, bioaccumulative and toxic) chemicals (USEPA, 2008a). For PCBs, increasing chlorination is strongly associated with the potential for bioaccumulation

R2-0006401

(ATSDR, 2000). Thus, Aroclor 1254 and Aroclor 1260 are among the more bioaccumulative PCB species.

3.3 Potential Receptor-Exposure Pathways and Routes

3.3.1 South Branch Creek Receptors and Pathways

Based on the EA (TCC, 2007), wetland delineation (EcolSciences, 2006), and observations made during the RI (2001-2008), South Branch Creek is the primary ecological habitat of concern at the Site. The creek is partially rip-rap lined and due to the industrial nature of the area, represents impaired habitat; however, the creek functions as part of a larger tidal system. There is a layer of sediment on the bottom of the creek that supports a benthic community as evidenced by observed shells found around the creek bed during the Site visit (Brown and Caldwell, 2006). Prey species, including small estuarine fish and crabs, are present in the creek; thus, the potential for food chain exposure exists. Since the Site is located within the Atlantic Coast migration corridor, land and water birds could potentially use the creek; however, the Site does not provide sufficient habitat to support populations of birds. No aquatic mammals were observed at the Site; however, opportunistic mammals may forage along the creek. Based on these considerations, piscivorous birds and omnivorous mammals represent the most likely wildlife receptors at South Branch Creek. However, as indicated below, other wildlife receptors have also been evaluated at the request of USEPA. For South Branch Creek, the following receptor-exposure pathways are considered in the BERA:

- Exposure of benthic macroinvertebrates to contaminated sediment/bank soil in South Branch Creek;
- Exposure of estuarine fish to contaminated sediment and surface water in South Brank Creek;
- Exposure of omnivorous mammals to contaminated sediment/bank soil, surface water, and prey items along South Branch Creek;
- Exposure of piscivorous mammals to contaminated sediment/bank soil, surface water, and prey items in South Branch Creek
- Exposure of sediment-probing birds to contaminated sediment/bank soil, surface water, and prey items in South Branch Creek; and
- Exposure of piscivorous birds to contaminated sediment/bank soil, surface water, and prey items along South Branch Creek.

R2-0006402

3.3.2 Terrestrial Receptors and Pathways

As described previously, the majority of the terrestrial area is covered by asphalt pavement and packed gravel, and deteriorating buildings that offer marginal habitat for terrestrial wildlife populations. In addition, the relative absence of vegetation indicates that a terrestrial food chain is limited. Furthermore, the results of the SLERA did not identify terrestrial food-chain impacts to predatory species such as a primary concern at this Site. However, in order to address agency concerns regarding the upland area of the Site and as point-of-departure for making risk management decisions at the Site, the following (unconfirmed) exposure pathways were also evaluated in the BERA:

- Exposure of invertivorous mammals to contaminated soil and prey items in the upland area of the Site;
- Exposure of carnivorous mammals to contaminated soil and prey items in the upland area of the Site;
- Exposure of invertivorous birds to contaminated soil and prey items in the upland area of the Site; and
- Exposure of carnivorous birds to contaminated soil and prey items in the upland area of the Site.

Assuming ecological receptors are potentially present on-site, exposure to elemental mercury in soils in the area around the cell building, where elemental mercury was observed, also represents a potentially complete exposure pathway. However, because it was not feasible to analyze these samples with conventional analytical methods, risks cannot be quantitatively evaluated. It is assumed that areas with visible elemental mercury pose unacceptable risks to potential ecological receptors.

3.3.3 Receptor Exposure Routes

The primary exposure route for benthic macroinvertebrates is direct contact with bulk sediment and sediment pore water. The primary exposure route for estuarine fish is direct contact with surface water. Potential exposure routes for upper trophic-level receptors (wildlife) include direct exposure via ingestion, dermal contact, and inhalation, and dietary exposure via the consumption of bioconcentrated/ bioaccumulated contaminants in food/prey items. Of these potential routes, ingestion of substrate and dietary exposures are assumed to be the primary exposure route. Detailed analysis of soil-based exposure pathways in terrestrial species conducted by USEPA (2005) has documented that inhalation and dermal contact pathways are generally associated with negligible exposures in wildlife species when compared to ingestion

R2-0006403

exposures. Per USEPA Guidance (1997), upper trophic-level wildlife receptors are assumed to be exposed to contaminants by two main pathways:

- Incidental ingestion of substrate (e.g., sediment) while feeding and grooming; and
- Ingestion of food/prey items that have become contaminated due to biotic uptake from substrate.

For the purposes of the BERA, only surficial soil and sediment samples (including low marsh samples) were evaluated as this represents the point-of-exposure for most wildlife receptors. Generally these were collected from a depth of 0 to 0.5 feet below ground surface (ft bgs) or 0 to 1 ft bgs.

3.4 BERA Assessment Endpoints

An assessment endpoint is an explicit expression of an environmental resource that is to be protected (USEPA, 1997). Valuable ecological resources include those that are important socially, such as song birds and/or functionally, such as those that provide food or habitat for other organisms. Appropriate selection and definition of assessment endpoints for a site helps identify ecological resources that will be evaluated and helps to focus the risk assessment. It is not realistic to evaluate all of the individual components of the ecosystem on-site. Therefore, assessment endpoints focus the risk assessment on particular ecosystem components. The assessment endpoints have been selected based on three principal criteria: (i) ecological relevance, (ii) susceptibility to potential stressors, and (iii) representation of management goals. Consistent with USEPA's ERAGS (USEPA, 1997), ecological receptors selected to represent assessment endpoints were established with consideration of "(i) the environmental fate and transport of the contaminants; (ii) the ecological setting and general flora and fauna of the Site (including habitat, potential receptors, etc.); and (iii) the magnitude and extent of contamination including its spatial and temporal variability."

Ecological assessment endpoints and representative receptors considered in the BERA are listed below and summarized in Table 3.

- Protection of benthic invertebrates communities from adverse ecological effects as a result of exposure to COPECs in sediments in South Branch Creek. *Representative receptor*: benthic macroinvertebrates

R2-0006404

- Protection of estuarine fish populations from adverse ecological effects as a result of exposure to COPECs in surface water in South Branch Creek. *Representative receptor*: estuarine fish

- Protection of omnivorous mammal populations from adverse ecological effects as a result of exposure to COPECs in South Branch Creek via ingestion of sediment, surface water, and contaminated food/prey items. *Representative receptor*: Raccoon (*Procyon lotor*)

- Protection of piscivorous mammal populations from adverse ecological effects as a result of exposure to COPECs in South Branch Creek via ingestion of sediment, surface water, and contaminated food/prey items. *Representative receptor*: Mink (*Mustela vison*)

- Protection of sediment-probing bird populations from adverse ecological effects as a result of exposure to COPECs in South Branch Creek via ingestion of sediment, surface water, and contaminated food/prey items. *Representative receptor*: Spotted sandpiper (*Actitis macularius*)

- Protection of piscivorous bird populations from adverse ecological effects as a result of exposure to COPECs in South Branch Creek via ingestion of sediment, surface water, and contaminated food/prey items. *Representative receptor*: Great Blue Heron (*Ardea herodias*)

- Protection of invertivorous mammal populations from exposure to contaminated soil and contaminated prey items in the upland area of the Site. *Representative receptor:* Short-tailed Shrew (*Blarina brevicauda*)

- Protection of carnivorous mammal populations from exposure to contaminated soil and contaminated prey items in the upland area of the Site. *Representative receptor:* Red Fox (*Vulpes vulpes*)

- Protection of invertivorous bird populations from exposure to contaminated soil and contaminated food/prey items in the upland area of the Site. *Representative receptor:* American woodcock (*Scolopax minor*)

- Protection of carnivorous bird populations from exposure to contaminated soil and contaminated food/prey items in the upland area of the Site. *Representative receptor:* Red-tailed hawk (*Buteo jamaicensis*)

R2-0006405

3.5 Risk Questions

Ecological risk questions for the BERA are questions about the relationship between assessment endpoints and their predicted responses when exposed to contaminants. The risk questions provide the basis for the study design and subsequent data evaluation during the risk characterization. Risk questions addressed in the BERA will include:

- Are COPEC concentrations in sediment in South Branch Creek sufficient to cause adverse ecological effects to populations of benthic macroinvertebrates?
- Are COPEC concentration in sediment and surface water in South Branch Creek sufficient to cause adverse ecological effects to populations of estuarine fish?
- Are COPEC concentrations in the sediment and surface water of South Branch Creek and tissue of aquatic/semi-aquatic prey items sufficient to cause adverse ecological effects to populations of omnivorous mammals?
- Are COPEC concentrations in the sediment and surface water of South Branch Creek and tissue of aquatic/semi-aquatic prey items sufficient to cause adverse ecological effects to populations of piscivorous mammals?
- Are COPEC concentrations in the sediment and surface water of South Branch Creek and tissue of semi-aquatic prey items sufficient to cause adverse ecological effects to populations of sediment-probing, invertivorous birds?
- Are COPEC concentrations in the sediment and surface water of South Branch Creek and tissue of aquatic/semi-aquatic prey items sufficient to cause adverse ecological effects to populations of piscivorous birds?
- Are COPEC concentrations in the soil of the upland area of the Site sufficient to cause adverse ecological effects to invertivorous mammals?
- Are COPEC concentrations in the soil of the upland area of the Site sufficient to cause adverse ecological effects to carnivorous mammals?
- Are COPEC concentrations in the soil of the upland area of the Site sufficient to cause adverse ecological effects to invertivorous birds?
- Are COPEC concentrations in the soil of the upland area of the Site sufficient to cause adverse ecological effects to carnivorous birds?

R2-0006406

The lines of evidence (i.e., measurement endpoints) used to answer these questions are described in Step 4. Table 3 provides a summary of the assessment and measurement endpoints evaluated in the BERA.

R2-0006407

4. STEP 4: STUDY DESIGN AND DQO PROCESS OBJECTIVES

The ecological CSM begun in Step 3, which includes assessment endpoints, exposure pathways, and risk questions, is completed in Step 4 with the development of measurement endpoints. The CSM is then used to develop the study design and DQOs. At the conclusion of Step 4, the ecological risk assessment work plan (WP) and sampling and analysis plan (SAP) are completed concurrently with an SMDP that requires agreement on:

- selection of measurement endpoints;
- selection of the site investigation methods; and
- selection of data reduction and interpretation techniques.

4.1 Measurement Endpoints

A measurement endpoint is defined as "a measurable ecological characteristic that is related to the valued characteristic chosen as the assessment endpoint" and is a measure of biological effects (USEPA, 1997). Typical measurement endpoints include tissue residue studies, population/community evaluations, and toxicity tests. Where direct field measurements are impractical, modeling may be used to estimate desired variables.

Measurement endpoints that correspond to assessment endpoints are discussed below.

Assessment Endpoint: Protection of benthic invertebrate communities from adverse ecological effects as a result of exposure to COPECs in sediments in South Branch Creek. *Representative receptor*: benthic macroinvertebrates

> *Measurement Endpoint*: Adverse effects to benthic invertebrate communities are evaluated using benchmark concentrations that have been established by agencies. These sediment quality benchmarks are based on studies that have linked sediment concentrations to biological effects. In addition, sediment samples were collected from South Branch Creek for laboratory toxicity testing. A ten day survival and growth bioassay was used to assess risk to benthic macroinvertebrates. A field survey of benthic macroinvertebrate population abundance and diversity was considered, but rejected as unsuitable because South Branch Creek is channelized, with little or no natural bank substrate, and the entire watershed is highly industrialized. Furthermore, with the absence of an upstream reference reach, it would be impossible to distinguish specific impacts (if any) to benthic invertebrates which result from exposure to site-

R2-0006408

related constituents from those impacts which result from exposure to anthropogenic or off-site conditions. A survey at a local reference stream might or might not provide an appropriate basis of comparison, because the extent of habitat comparability between the Site and the reference stream would be unknown. Thus, no meaningful input into the ultimate risk management decisions could be provided by field macroinvertebrate surveys.

Assessment Endpoint: Protection of estuarine fish populations from adverse ecological effects as a result of exposure to COPECs in sediments and surface water in South Branch Creek. *Representative receptor*: Estuarine fish

Measurement Endpoint: Adverse effects to fish populations are evaluated using fish tissue toxicity reference values (TRVs) from the primary literature to determine ecological risk to fish populations. These TRVs are based on studies that have linked tissue concentrations to biological effects. The measured concentration in fish tissue (mummichog tissue) is used as a surrogate for estimating effects to estuarine fish.

Assessment Endpoint: Protection of wildlife populations from adverse ecological effects as a result of exposure to COPECs in South Branch Creek via ingestion of sediment, surface water, and contaminated food/prey items. *Representative receptors*: Raccoon, mink, spotted sandpiper, and great blue heron

Measurement Endpoint: Dietary exposure to wildlife that utilize South Branch Creek is assessed by measuring COPEC concentrations in the tissues of prey items. Prey items available at the Site are likely to include small fish and fiddler crabs, which were collected from South Branch Creek for chemical analyses. The dietary dose will also consider the incidental ingestion of sediment with prey items, and incidental consumption of brackish surface water from South Branch Creek. Total dietary doses will be compared with dietary TRVs obtained from the primary literature to determine ecological risks for wildlife receptors exposed to COPECs in South Branch Creek.

Assessment Endpoint: Protection of terrestrial wildlife populations from exposure to COPECs in the upland area of the Site via ingestion of soil and contaminated food/prey items. *Representative receptors*: Short-tailed shrew, red fox, American woodcock, and red-tailed hawk

Measurement Endpoint: Dietary exposure to terrestrial wildlife is assessed by calculating COPEC concentrations in the tissues of prey items using bioaccumulation factors. The dietary dose will also consider the incidental

R2-0006409

ingestion of soil with prey items. Total dietary doses will be compared with dietary TRVs obtained from the primary literature to determine ecological risks for terrestrial wildlife exposed to COPECs in the upland area of the Site. Direct measures of mammalian populations in the field were considered, but rejected as impractical because of the very limited size of degraded habitat available at the Site is unlikely to support a population that is large enough to assess cost-effectively. Field collection of soil invertebrates for chemical analysis was also considered; however, because of largely paved and graveled nature of the Site, it would not be practical to collect a sufficient mass of insects for analysis.

4.2 Ecological WP and SAP

The additional field investigations that were required to evaluate the ecological assessment endpoints are described in a series of USEPA approved documents that jointly constitute the RIWP. Documents related to the ecological assessment include:

- "Addendum No. 2, (South Branch Creek & Ecological Issues) Work Plan: Phase II Remedial Investigation, LCP Chemicals, Inc. Superfund Site", (Brown and Caldwell, July 2004, Revised August 2006, Revised October 2006).
- "Addendum No. 5, Field Operations Plan for the LCP Chemicals, Inc. Superfund Site, Ecological Sampling", (Brown and Caldwell, August 2006, Revised October 2006).
- "QAPP Addendum for South Branch Creek Sampling," (Brown and Caldwell, August 2006, Revised October 2006).
- "Supplemental Work Plan: Sediment Toxicity Testing (South Branch Creek), Phase II Remedial Investigation LCP Chemicals, Inc. Superfund Site," (Brown and Caldwell, September 2006, Revised October 2006).
- "Interim Ecological Risk Assessment Problem Formulation," (Brown and Caldwell, Revised October 2006).
- "Supplemental Data Collection, Remedial Investigation, LCP Chemicals Inc. Superfund Site", (Brown and Caldwell, May 9, 2008).

The specific methods that were employed in the field investigation are described in the Field Operations Plan (Appendix B of the RI Report) and associated addenda. Section 1.4 of the RI Report includes a complete list of RIWP documents.

R2-0006410

5. STEP 5: VERIFICATION OF FIELD SAMPLING DESIGN

The primary purpose of Step 5 is to ensure that the samples specified by the SAP can be collected and to evaluate whether the specified sampling methods are the most appropriate for addressing the ecological assessment endpoints.

Observations made during Phase I Site mobilizations and the results of the Phase I Site characterization were considered in developing the Phase II WP and SAP. In addition, field verification was conducted by Brown and Caldwell and IES prior to submitting the Baseline Problem Formulation document to ensure that the selected biota sampling locations within South Branch Creek were accessible, that sufficient numbers of mummichog and fiddler crabs could be collected, and that the locations were representative of the overall nature of the creek.

Site observations were also used in the selection of measurement endpoints. By example, Site observations indicated that field collection of soil invertebrates, small mammals and birds would not be practical to implement as measurement endpoints.

The series of USEPA approved documents that jointly constitute the WP and SAP were listed in Section 4.

R2-0006411

6. STEP 6: SITE INVESTIGATION AND DATA ANALYSIS

A comprehensive characterization of the nature and extent of contamination in Site media was performed through the RI field investigation. The field investigation was performed in two phases from 2001 to 2008. Data collected during the Site investigation used to characterize exposures and ecological effects are described in the following sections.

6.1 Data Evaluated in the BERA

Sample locations evaluated in the BERA are presented in Figure 6. The datasets are discussed by medium in the following subsections. Uncertainty associated with the datasets is discussed in the Uncertainty Section.

6.1.1 Sediment/Bank Soil

Sediment/bank soil samples (including low marsh samples) collected from approximately 70 locations along South Branch Creek were evaluated in the BERA. For the purposes of the ecological risk assessment, only surficial samples (collect from the interval 0 to 0.5 ft bgs or 0 to 1 ft bgs) were included as the appropriate point-of-exposure for most aquatic/semi-aquatic receptors.

Samples evaluated in the BERA were collected along South Branch Creek during the Phase I and Phase II Site investigations conducted between August and September of 2001 and September and October of 2006, respectively. Because of the constant influx of water and sediment to the tidal creek, the 2006 analytical data likely reflect the most current conditions at the Site; however, as a conservative measure, data from both sampling events was included in the risk characterization.

Note that the majority of Phase II samples evaluated in the BERA were collected along Transects (A through E) in order to characterize the distribution of contaminants across the width of the creek. Samples collected at the confluence area of South Branch Creek and the Arthur Kill, Transects F and G, are considered outside the tidal mud flats considered on-site habitat and therefore, excluded from this evaluation. Locations of transects are shown in Figures 6-25a through 6-36c of the RI Report.

Three (3) additional sediment samples collected in May 2008 to further characterize mercury contamination in South Branch Creek were also included in the BERA data set. Samples were analyzed by Frontier Geosciences, Inc of Seattle, WA for total mercury and mercury sequential extraction (inorganic speciation).

R2-0006412

Summary statistics for sediment/bank soil samples collected from South Branch Creek and evaluated in the BERA are presented in Table 4. Attachment A, Table A-1 presents a list of sediment/bank soil samples evaluated in the BERA and their corresponding chemical concentrations.

6.1.2 Whole Body Tissue Analysis

The screening-level evaluation of ecological risks to upper trophic-level receptors from contaminants in South Branch Creek was based on sediment concentration data and food-chain modeling (Revised Baseline Problem Formulation - Brown and Caldwell, October 2006). The levels of contaminants that a receptor ingests were estimated by making assumptions about the uptake of contaminants from sediment into a receptor's food/prey items. These assumptions often add considerable uncertainty to the results of a SLERA.

During the Phase II RI, samples of common prey species in South Branch Creek were collected to better characterize the actual exposure to predatory receptors in the BERA. Mummichog fish, a species common to severely polluted streams, were collected from five locations in South Branch Creek. Mummichog samples were collected at the midpoint of the channel and were co-located with the sediment and surface water samples collected along Transects A through E during the Phase II RI. Mummichog samples were collected primarily using minnow traps; however, fish were also collected with a seine. Fish samples were rinsed, weighed, and measured prior to being shipped to the laboratory.

Fiddler crabs, a species common to brackish inter-tidal mud flats, were collected from ten locations in South Branch Creek. Crabs were collected from each bank at Transects A through E. Fiddler crab samples were collected by hand capture, and weighed and measured before being sent to the laboratory.

Mummichog and fiddler crab samples were analyzed for: five arsenic species (arsenobetaine, arsenite, arsenate, monomethylarsonate, and dimethylarsinate), nine metals (barium, chromium, copper, iron, lead, manganese, mercury, vanadium, and zinc), methyl mercury, and 156 PCB congeners. Note that tissue samples were not analyzed for polychlorinated dibenzodioxins (PCDDs) or polychlorinated dibenzofurans (PCDFs) on the basis that these chemical classes were not believed to be site-related. However, additional detailed review as part of the RI Report subsequently suggested that PCDFs may be site-related; uncertainty associated with this data gap is discussed in Section 8.1.3.

R2-0006413

Summary statistics for crab and fish tissue samples collected from South Branch Creek are presented in Tables 5 and 6, respectively. Attachment A, Tables A-2 and A-3 present a list of fiddler crab and mummichog samples evaluated in the BERA and their corresponding chemical concentrations. Tables A-2 and A-3 also present the results of the arsenic speciation data for crab and fish tissue samples; note that arsenic speciation data were not quantitatively evaluated in the risk characterization.

Detailed descriptions of the biota sample collection methods are presented in the Field Operations Plan (Appendix B of the RI Report).

6.1.3 Surface Water

Surface water samples collected from five sampling locations within South Branch Creek were evaluated in the BERA. Local tides affect the water levels in South Branch Creek from full capacity to virtually dry during low tide. Because of the constant tidal influx of water into the tidal creek, surface water conditions have most likely changed from the 2001 to the 2006 sampling event. Therefore, for the purposes of this risk assessment, only surface water samples collected in 2006 were evaluated. These samples are the most recent analytical data; and, therefore, are considered to reflect the most current conditions at the Site.

As shown in Figure 6, surface water sample locations are co-located with the sediment and low marsh transects discussed above. Similar to sediment, surface water samples collected at the confluence area of South Branch Creek and the Arthur Kill, Transects F and G, are considered outside the tidal mud flats considered on-site habitat and therefore, excluded from this evaluation.

Summary statistics for surface water samples collected from South Branch Creek and evaluated in the BERA are presented in Table 7. Attachment A, Table A-4 presents a list of surface water samples evaluated in the BERA and their corresponding chemical concentrations.

6.1.4 Upland Area Soil

Surficial soil samples were collected for laboratory analysis from over 200 boring locations throughout the Site as part of the Phase I and II RI field investigation. The locations of the surficial soil samples are shown on Figure 6. For terrestrial receptors, exposure to contaminants in surface soil is considered to be the primary exposure pathway at the Site. Soil samples obtained from a depth of 0 to 0.5 ft bgs were selected to represent this point-of-exposure for most terrestrial species. Note that soil samples that included this interval were also included in the risk evaluation (e.g., 0 to 2 ft bgs).

R2-0006414

Additional surficial soil and sediment samples were collected in May 2008 to further characterize mercury contamination on the Site.

Eight (8) additional surficial soil samples were collected from areas that were previously characterized as having low, moderate, and elevated concentrations of total mercury in soil. These samples were intended to bracket the range of concentrations of mercury on the Site and assist the risk assessment. These samples were collected by manual grabs and analyzed by Frontier Geosciences, Inc of Seattle, WA. Samples were analyzed for total and elemental mercury.

Four (4) additional surficial soil samples were collected from areas previously known to exhibit visible, metallic mercury in surficial soil. These samples were intended to evaluate the leachability of elemental mercury from soils containing visible elemental mercury for potential waste characterization purposes. Samples were collected as manual grabs and analyzed by Accutest Laboratories of Dayton New Jersey. Samples were analyzed for total mercury and TCLP mercury. Note: samples with visible elemental mercury were excluded from the dataset used in the quantitative evaluation. However, areas with visible elemental were assumed to present unacceptable risk to ecological receptors.

Summary statistics for upland area soil samples collected from South Branch Creek are presented in Table 8. Attachment A, Table A-5 presents a list of upland area soil samples evaluated in the BERA and their corresponding chemical concentrations.

6.2 Data Handling

6.2.1 Duplicate Samples

During the RI, field duplicate samples were collected at several of the sample locations evaluated in the BERA. Prior to conducting data analysis, duplicate samples were processed as follows:

- if a constituent was detected in both samples, and the relative difference between the results was less than 25 percent, the average concentration was used;
- if a constituent was detected in both samples, and the relative difference between the results was more than 25 percent, the maximum concentration was used;
- if a constituent was detected in one sample, but not the other, the detected concentration was used; or

R2-0006415

- if a constituent was not detected in either sample, the average method detection limit (MDL) was used.

6.2.2 Polychlorinated Biphenyls

Per the Work Plan, sediment, surface water, and soil at the Site were analyzed for PCBs as Aroclors. The results of the SLERA indicated potential risk from Aroclor 1254 and 1260 for ecological receptors exposed to terrestrial and aquatic media at the Site. For the purposes of the BERA, Aroclor 1254 and Aroclor 1260 (the only Aroclors detected in abiotic media) results were summed and evaluated as Total PCBs; non-detect results were summed using one-half the MDL. Note, that for duplicate Aroclor samples, Total PCBs were first calculated for both the parent and duplicate sample; the resultant totals were subsequently processed according to the duplicate handling process described above, and assuming that summations represented detected concentrations. Aroclor summations for sediment and soil are presented in Attachment A, Tables A-6 and A-7, respectively; no PCBs were detected in surface water.

Fiddler crab and mummichog tissue data were analyzed for individual PCB congeners rather than Aroclors. Ortho-PCBs (i.e., dioxin-like PCBs) differ in terms of potency; as such, the toxicity of environmental mixtures involves the use of Toxic Equivalency Factors (TEFs). The USEPA has endorsed the use of TEFs developed by the World Health Organization (WHO – 2005) to evaluate risks posed by dioxin-like PCBs. Within each sample, ortho-PCB congeners (i.e., dioxin-like PCB congeners) were converted to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) equivalent concentrations using the appropriate toxic equivalency factor (TEFs) multiplier and summed to calculate a toxic equivalency concentration (TEC). If an individual congener was never detected in a given medium (e.g., crab tissue) it was excluded from the summation; otherwise, non-detect results were summed using one-half the MDL. Note that for duplicate samples, individual TECs were first calculated for both the parent and duplicate sample; the resultant TECs were subsequently processed according to the duplicate handling process described above, and assuming TECs represented detected concentrations. TECs for ortho-PCBs only included those for which a TEF is available. For the purposes of the BERA, ortho-PCB 2,3,7,8-TCDD TECs were evaluated using 2,3,7,8-TCDD toxicity values. TECs for fiddler crab and mummichog tissue are presented in Attachment A, Tables A-8 and A-9, respectively.

To account for the inconsistency between the abiotic and biotic PCB datasets, food chain models evaluated Total Aroclors and ortho-PCB TECs. Total Aroclor concentrations in tissue were modeled from sediment concentrations using biota-sediment accumulation factor (BSAFs) obtained from the USEPA BSAF Database

R2-0006416

(2008c). Sediment concentrations were multiplied by the average BSAF for a relevant species to yield a modeled tissue concentration. Table 9 presents the BSAF and the applicable studies. Concentrations of ortho-PCBs in sediment were not back-calculated from tissue concentrations, but as described in the risk characterization, wildlife exposure primarily occurs via food chain exposure. Further, measured concentrations of Aroclors in sediment likely captured a portion of the ortho-PCB congeners.

6.2.3 Dioxins and Furans

PCDDs and PCDFs (and dioxin-like PCBs) are groups of chemicals that are known to act through the Aryl Hydrocarbon Receptor-mediated mechanism of action (USEPA, 2008b). Because these congeners differ in terms of potency, the toxicity of environmental mixtures involves the use of TEFs. The USEPA has endorsed the use of TEFs developed by the World Health Organization (WHO – 2005) to evaluate risks posed by PCDDs and PCDFs.

Within each sediment and surface water sample, PCDD or PCDF concentrations were converted to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) equivalent concentrations using the appropriate TEF multiplier and summed to calculate a TEC. If an individual congener was never detected in a given medium (e.g., sediment) it was excluded from the summation; otherwise, non-detect results were summed using one-half the MDL. For the purposes of the BERA, 2,3,7,8-TCDD TECs were evaluated using 2,3,7,8-TCDD toxicity values. Note, that for duplicate samples, individual TECs were first calculated for both the parent and duplicate sample; the resultant TECs were subsequently processed according to the duplicate handling process described above, and assuming resultant TECs represented detected concentrations. Dioxin and furan 2,3,7,8-TCDD TECs for sediment are presented in Attachment A, Tables A-10 and A-11, respectively. Dioxin and furan 2,3,7,8-TCDD TECs for surface water are presented in Attachment A, Tables A-12 and A-13, respectively.

Note that tissue samples were not analyzed for PCDDs or PCDFs because these chemical classes were not believed to be site-related; however, subsequent detailed review for the RI Report suggested that PCDFs may be site-related. As a conservative measure, both PCDDs and PCDFs have been included as aquatic COPECs. Similar to Aroclors, PCDD and PCDF concentrations in tissue were modeled from sediment concentrations to account for this data gap. Table 9 presents BSAFs and applicable studies.

R2-0006417

6.2.4 Modeled Concentrations

Assessment of risks to terrestrial receptors requires EPCs for their prey items. However, because of the largely paved and graveled nature of the Site, successful implementation of a soil invertebrate or small mammal sample collection program was considered impractical. Therefore, concentrations of COPECs in earthworms and small mammals were estimated using either regression equations or simple ratios (biota-soil accumulation factors [BAFs]). Regression equations/BAFs for estimating concentrations of COPECs in wildlife dietary items were primarily obtained from Attachment 4-1 of the *USEPA Guidance for Developing Ecological Soil Screening Levels* (USEPA, 2007). For constituents without USEPA-recommended equations, the primary literature was reviewed to identify appropriate uptake equations/BAFs. If pertinent literature could not be identified for a constituent, a default BAF value of 1 was assumed. Table 10 presents the constituent-specific uptake equations and their sources utilized in the BERA.

6.3 <u>Additional Ecological Data</u>

6.3.1 Old Place Creek

The Phase II RIWP documents, dated October 2006, included tasks for the selection and collection of samples from a reference stream. An e-mail message dated August 18, 2006 from Mr. Jon Gorin of USEPA to IES that stated " . . . after consulting with BTAG, we've determined that there is no need for a reference stream right now." The approved documents included identification and sampling of a reference stream. This work was therefore conducted in accordance with the approved documents without oversight by USEPA.

Old Place Creek was selected to serve as the reference stream. Old Place Creek is a tidal creek consisting of salt marshes and an adjacent successional southern hardwood forest, and is located on Staten Island, New York, on the eastern side of the Arthur Kill (Figure 1). The area is located immediately north of the Goethals Bridge and is surrounded by heavy industrial development. Old Place Creek was not formally approved as a reference stream for the Site; however, it is similar in many respects to South Branch Creek, including the width and depth, and provides a tool for evaluation of South Branch Creek and other regional data.

Samples of sediment, surface water, and biota were collected in Old Place Creek by Brown and Caldwell on behalf of IES contemporaneously with the Phase II RI in fall 2008. The purpose of this effort was to characterize regional background conditions. Samples were analyzed for TCL/TAL analytes as well as total and methyl mercury, and

R2-0006418

PCDDs/PCDFs. The results of the study of Old Place Creek are presented in Appendix M of the RI Report. Analytical results for BERA COPECs detected in Old Place Creek are summarized in Attachment B.

The range of detected concentrations of COPECs in sediment, fiddler crab tissue, mummichog tissue, and surface water from Old Place Creek are included in Tables 4, 5, 6, and 7, respectively, for reference. Generally, maximum chemical concentrations detected in Site samples were higher than data collected from Old Place Creek. Several chemical 95 percent upper confidence limit on the mean (95% UCL) concentrations in each of the media were below the Old Place Creek sample maximums including chromium, iron, manganese, vanadium, and Aroclor 1254/1260 in sediment.

The presence of these constituents in Old Place Creek indicates that concentrations of some metals and PCBs at the Site may not be entirely attributable to Site operations or releases. Several of these constituents are commonly associated with natural background and/or anthropogenic conditions typical of industrial settings such as that of the Site. Uncertainty associated with determining whether the risks associated with concentrations of some chemicals are site-related or are attributable to natural or anthropogenic background or off-site sources is discussed in Section 8.

6.3.2 Sediment Toxicity Testing

Four sediment samples were collected for concurrent sediment toxicity and bulk chemistry analysis. The samples were collected from Stations at Transects A, C, and E in South Branch Creek and from a sample collected at Old Place Creek. The sediment toxicity report prepared by American Aquatic Testing of Allentown, Pennsylvania, appears in Appendix L of the RI Report.

Upon receipt and handling, the sediment toxicity testing laboratory, American Aquatic, reported that samples from the downstream Transects E and C of South Branch Creek produced mercury vapors (0.3 mg/m^3 and 0.09 mg/m^3, respectively) that could not be managed safely in the laboratory environment. Following extensive discussions with American Aquatic, several additional sediment toxicity testing facilities, and USEPA/NJDEP, USEPA authorized the elimination of these samples from the program on October 26, 2006. On October 27, 2006, American Aquatic transported these samples to the Site where they were combined with the investigation derived waste for proper disposal.

Sediment toxicity testing using a standard, ten-day testing protocol (*Leptocheirus plumulosus*) was conducted on the sample from Transect A and the sample from Old Place Creek as required by the method. Two endpoints were evaluated: 1) survival (as a

R2-0006419

percent) and 2) growth as measured by mean dry weight. Percent survival (56%) for the upstream South Branch Creek sample (Transect A) was significantly less than the Old Place Creek sample survival (90%) and was statistically different (Brown and Caldwell, 2007). Both the Transect A sample from South Branch Creek and the sample from Old Place Creek exhibited larger mean dry amphipod weights than the control with no statistical difference between the two creek samples. The Site sample is considered acutely lethal because of the decreased survival in the acute (10-day) exposure; therefore, additional chronic testing was not performed.

6.4 Nature and Extent of Contamination

A comprehensive characterization of the nature and extent of contamination in Site media was performed through the RI field investigation and presented in the RI Report. Portions of this discussion relevant to the BERA are presented in the following sections; however, the reader should refer to RI Report Section 6, *Nature and Extent of Contamination*, and Section 7, *Fate and Transport*, for a more comprehensive discussion.

6.4.1 South Branch Creek Sediment

Mercury concentrations are highest in the areas of historical inputs, namely Transect A, which has received drainage from multiple sources over the years, and the former City of Linden sewer pipe at Transect C. Mercury concentrations attenuate with distance from the Site. Other site-related constituents reported in sediments are low-level PCBs and PCDFs; both classes of constituents show a similar gradient leading to regional background (Old Place Creek) or undetected concentrations in the Arthur Kill.

Arsenic concentrations in South Branch Creek sediment and low marsh soil are markedly elevated in the Transect A area. The sediment arsenic levels are greater than soil arsenic levels on the Site, which suggests that off-site sources may be contributing to arsenic in South Branch Creek. Arsenic concentrations also attenuate with distance along South Branch Creek, reflecting the generally low sediment mobility in the ditch. Other contaminants (metals, PCDDs, and PAHs) show minimal relationship to the Site, which suggests potential contributions from off-site sources. Nonetheless, these constituents were evaluated in the BERA.

In general, the low marsh constituent concentrations indicate association with sediment concentrations, not with soils in the upland area of the Site. Mercury concentrations were greatest in the low marsh samples near Transect C, not along the upstream portion of South Branch Creek. Furthermore, total mercury concentrations were greater in low marsh soils than in tidal marsh deposits on the Site.

R2-0006420

Other site-related COPECs were not prevalent in the low marsh material. Hexachlorobenzene and PCBs, which were present throughout surficial Site soils, were minimally detected in low marsh soils. Conversely, arsenic concentrations were higher in low marsh soils than anywhere on-site. PCDDs and PCDFs were higher in locations near the Arthur Kill than in the upstream portion of the Creek.

The contaminant distribution in low marsh soil is similar to that observed in sediments, reflecting only mercury as a principal contaminant of Site origin. Summary statistics for COPECs in sediment/bank soil are presented in Table 4. For presentation purposes, EPCs are included in Table 4; the derivation of EPCs is discussed further in Section 7.1.

6.4.2 Tissue Data

Summary statistics for COPECs in fiddler crab and mummichog tissue are presented in Tables 5 and 6, respectively. For presentation purposes, EPCs are also included in these tables; the derivation of EPCs is discussed in Section 7.1.

During field collection activities, specimens were inspected for obvious deformities. None were noted in the crabs. An anatomical abnormality was noted in only one individual fish, from sample MC-E. This specimen presented with bulbous growth under the gill at the ventral side of the fish. The growth was a clear bladder, approximately twice the size of the fish's eye. There was some red visible inside, possibly blood. This particular fish measured 67 millimeters and weighed approximately 3.5 grams, which is just above average size for sampled fish.

6.4.2.1 **Mercury**

The spatial distribution of mercury concentrations in fish paralleled those observed in sediment, with the maximum concentration (7.68 mg/kg) reported in Transect C, somewhat lower concentrations in Transect A (2.59 mg/kg), a somewhat lower concentration in Transect B, and a trend of diminishing concentrations approaching the Arthur Kill. The comparability of the patterns of mercury in fish tissue and sediment suggests that mummichog have low mobility in South Branch Creek and accumulate mercury from the sediment and/or surface water in the immediate habitat area.

In mummichog samples where total mercury content was relatively low (Transects D and E), methyl mercury was the dominant form of mercury. However, where fish tissue total mercury content was greatest, methyl mercury was not the dominant species. The prevalence of inorganic mercury in some mummichog suggests that inorganic mercury is biologically available in surface water for uptake across gill membranes in portions South Branch Creek (Transects A, B and C). Alternately, the elevated levels of total

R2-0006421

mercury in fish may reflect sediment in the gut of the fish that is ingested during foraging.

The spatial distribution of mercury in crab samples differed slightly from that in fish. The maximum concentration (70.2 mg/kg) was detected in Transect C, but Transect B showed the next highest concentrations, followed by Transects A and D. The total mercury concentration detected in one of the two samples from the Arthur Kill (3.74 mg/kg in Transect F) was comparable to that observed in samples from Transect A.

Methyl mercury concentrations were typically less in fiddler crabs than mummichog in samples from the same transect. Overall, crab samples contained a lower percentage of methyl mercury than fish, ranging from 0.77 to 78 percent in South Branch Creek. The crab samples revealed a clear negative relationship between total mercury and percentage methyl mercury. The percentage methyl mercury in crab tissue was low where the total mercury concentration in crabs was high. The occurrence of inorganic mercury in crabs may reflect sediment in the gut that is ingested during foraging.

Crabs and fish contained comparable levels of lipids, approximately 1 percent of body weight. Neither inorganic nor methyl mercury preferentially accumulate in lipid tissues. However, methyl mercury has an affinity for the sulfhydryl groups in proteins, and may biomagnify in muscle tissues.

6.4.2.2 **Arsenic**

As with sediment, arsenic concentrations in both fish and crab tissue exhibited a notable elevation in Transect A. Concentrations elsewhere in South Branch Creek were relatively consistent. Old Place Creek arsenic concentrations in fish tissue were somewhat lower than South Branch Creek; however, Old Place Creek arsenic crab data were comparable to those from South Branch Creek. These data suggest that other than in the area of extremely elevated sediment concentrations, arsenic concentrations in crab tissue are not especially sensitive to the immediate sediment quality and may be homeostatically regulated.

Speciation data for arsenic in fiddler crab and mummichog tissue are presented in Attachment A, Table A-2 and A-3, respectively. As predicted based on arsenic's known tendency to predominate in fish tissue in an organic form (ATSDR, 2007), a very small proportion of arsenic was in the more toxic inorganic (typically in the range of 1 percent or less), with the majority present as arsenobetaine (a nontoxic organic form). The exception was in the area of markedly elevated arsenic sediment concentrations, MC-A (Transect A), which showed 2 to 3 percent organic arsenic. In

R2-0006422

addition, the arsenic species that were analyzed for (trivalent inorganic, pentavalent inorganic, arsenobetaine, dimethylarsinate and monomethylarsonate) roughly accounted for the total arsenic present in most samples. At Transect A, however, the total arsenic concentration did not reflect the sum of these forms, with only 20 to 38 percent of the total arsenic accounted for. These results suggest that the fish in Transect A have accumulated an unusual form of arsenic that is not typical in the environment, perhaps a complex organic form. As discussed in detail in Section 6.7.2 of the RI Report, these differences in the arsenic contamination at Transect A provides additional evidence of a separate, off-site source of arsenic into the head end of South Branch Creek that appears to have no relationship to the former chlor-alkali operations.

6.4.2.3 **Metals**

The other inorganic COPECs (barium, chromium, copper, iron, lead, manganese, vanadium, and zinc) were also detected in all 10 crab samples and all five fish samples collected.

Barium concentrations in fish tissue samples were highest in South Branch Creek samples, approximately 10-fold higher than those in Old Place Creek. Fish tissue concentrations for chromium, copper, iron, lead, manganese, vanadium, and zinc were detected at the same order of magnitude in both South Branch Creek and Old Place Creek.

Barium concentrations in crab tissue samples collected from South Branch Creek were 10-fold higher than those in Old Place Creek; lead and zinc concentrations in South Branch Creek were also generally higher than those detected in Old Place Creek. Crab tissue concentrations for chromium, copper, iron, manganese, and vanadium were detected at the same order of magnitude in both South Branch Creek and Old Place Creek.

With the exception of barium, no pattern of elevated fish tissue concentrations with metals is observed. In crab tissue, barium, lead, and zinc are present at higher concentration in South Branch Creek biota samples than in the Old Place Creek samples. As with mercury, this observation may reflect retention of impacted sediment in the gut rather than accumulation in tissue.

6.4.3 South Branch Creek Surface Water

Phase II surface water data were quantitatively evaluated in the BERA as these are considered to be reflective the most current conditions at the Site. However, to provide a more robust discussion of the nature and extent of constituents in surface water, this

R2-0006423

section describes the both the Phase I (2001-2002) and Phase II (2006-2007). Note that because concentrations of total (non-filtered metals) present in surface water are dependent on the tidal cycle, the data are not directly comparable. The nature and extent of surface water constituents presented below is based on comparisons to the lower of: 1) National Recommended Water Quality Criteria (NRWQC) chronic values for saltwater aquatic life (USEPA, 2002) and 2) New Jersey chronic water quality standards for aquatic life in saline water (NJDEP, 2003; updated July 2011). Relative to the selected standard, concentrations of mercury, arsenic, cadmium, copper, lead, and zinc have been elevated. The nature and extent of each of these constituents is discussed in additional detail below. However, the reader should refer to Section 6.5 of the RI Report for a more comprehensive discussion.

Like sediment, mercury present throughout South Branch Creek surface water is potentially Site related. Shallow groundwater in the vicinity contains little or no mercury, so likely sources are historical operations, surface run-off, and off-site sources. Mercury may be suspended in surface water as well as low marsh soil, which has likely been impacted by upland soil deposition. Phase I surface water mercury concentrations were highest in the vicinity of Transect D, but generally of a similar magnitude throughout South Branch Creek. Overall, Phase II mercury concentrations are lower; concentrations are highest in the areas of historical operations inputs, namely Transect A, which has received drainage from multiple sources over the years, and the former City of Linden sewer pipe at Transect C. Phase II mercury concentrations attenuate with distance from the Site.

Phase I arsenic concentrations in surface water were elevated relative to the screening level throughout South Branch Creek; highest concentrations were in the vicinity of Transect A and B and attenuated with distance from the Site. Phase II arsenic concentrations are elevated in Transects A and B, but attenuate with distance from the Site and are comparable to regional background (Transects F and G) by the confluence with the Arthur Kill.

Phase I cadmium concentrations in surface water were highest in the vicinity of Transects C and D, but attenuated to below detection limits by the confluence with the Arthur Kill. Cadmium was not detected in Phase II surface water samples.

Phase I copper concentrations in surface water were highest in the vicinity of Transects C and D, but attenuated to below detection limits by the confluence with the Arthur Kill. Copper was not detected in Phase II surface water samples.

R2-0006424

Phase I lead concentrations in surface water were elevated relative to the screening level throughout South Branch Creek; the highest concentrations were in the vicinity of Transects C and D, but attenuated to below detection limits by the confluence with the Arthur Kill. Phase II lead concentrations are elevated in Transects A and B, but attenuate to below detection limits by the confluence with the Arthur Kill.

Phase I zinc concentrations in surface water were highest in the vicinity of Transects C and D. Phase II zinc concentrations are elevated in Transects A and B, but attenuate to below detection limits by the confluence with the Arthur Kill.

Summary statistics for COPECs in surface water (based on Phase II data) are presented in Table 7. For presentation purposes, EPCs are included in Table 7; the derivation of EPCs is discussed further in Section 7.1.

6.4.4 Upland Area Soil

Contaminants derived from manufacturing activities at the LCP Site have directly impacted soil quality as a result of spills and other direct discharges. Contaminated soil provides a historic and ongoing source of contamination of other media. The soil impacts are primarily observed in the shallow anthropogenic fill soils given the fact that the discharges likely occurred on the ground surface. The underlying natural soils, including the tidal marsh deposits and glacial till, are impacted to a much lesser degree than are the anthropogenic fill soils.

Overall, the only soil COPECs that clearly appear to have originated from historic chlor-alkali site operations are mercury, PCBs, and hexachlorobenzene. PCDFs in a small number of soil samples located near the production area may also have originated from the Site. Other COPECs that are present in the anthropogenic fill and/or represent regional background conditions include arsenic, metals, and PCDDs. As described previously, COPECs retained for further evaluation in the BERA include contaminants associated with historic operations as well as those associated with anthropogenic fill and off-site sources.

Mercury is the primary site-related contaminant and is present in soil as a result of the chlor-alkali manufacturing process at the LCP Site. Elevated levels of mercury, including visible elemental mercury, were found in the anthropogenic fill soils throughout nearly the entire Site. The highest mercury concentrations were observed in and around the former production area near Buildings No. 230, 231, and 240, including beneath the buildings. Substantial attenuation of mercury concentrations was observed in the underlying natural soils. The mercury in soil is likely to be relatively immobile

R2-0006425

given the fact that speciation data indicates that it is primarily present in relatively insoluble forms including mercury sulfide and elemental mercury.

PCBs (Aroclors 1254 and 1260) and hexachlorobenzene are widely distributed across the Site within the anthropogenic fill. PCBs are associated the electrical equipment that was formerly used on the Site. Hexachlorobenzene is commonly formed as a byproduct in chlor-alkali plants through the reaction of the chlorine with the graphite anodes. The decreasing vertical distribution of PCBs and hexachlorobenzene in the fill suggests on-site sources that were spilled on the ground surface. In addition, there is evidence of the possible site-related presence of PCDFs in several manufacturing area surficial soil samples. The site-related occurrences of PCBs, hexachlorobenzene and PCDFs are generally co-located with samples containing elevated levels of mercury.

Other COPECs that are not related to manufacturing activities at the Site are frequently detected in the Site soils, particularly in the anthropogenic fill. These include arsenic, metals, PCDFs/PCDDs, and PAHs. The ubiquitous presence of arsenic, metals, and PAHs in areas with no production history, the presence of anthropogenic fill, the absence of a decreasing concentration gradient within the fill, and the absence of an association with the known sources of contamination lead to the conclusion that the occurrences are not associated with LCP Site operations; rather, they are associated with the presence of anthropogenic fill materials. Summary statistics for COPECs in soil are presented in Table 8. For presentation purposes, EPCs are included in Table 8; the derivation of EPCs is discussed further in Section 7.1.

R2-0006426

7. ECOLOGICAL RISK CHARACTERIZATION

Potential risks to ecological receptors are evaluated using an HQ approach. This approach compares an exposure level to an effects level to yield a quantitative estimate of risk as follows:

$$HQ = \frac{Exposure\ Level}{Effects\ Level}$$

Generally, the greater the HQ, the greater the likelihood an effect will occur. Exposure and effects levels vary by assessment endpoint: for benthic macroinvertebrates, levels correspond to sediment concentrations; for estuarine fish, levels correspond to tissue concentrations; and for mammals and birds, levels correspond to dietary doses. Section 7.1 presents an overview of exposure levels. The sections that follow describe the endpoint-specific exposure and effects levels and risk characterization results for benthic macroinvertebrates (Section 7.2), estuarine fish (Section 7.3), and upper trophic level receptors (Section 7.4).

7.1 Exposure Point Concentrations

Site-specific EPC are estimates of the concentration of a chemical in a medium within some specified exposure point. EPCs primarily represent measured concentrations of constituents in environmental media (i.e., soil, sediment, surface water, and fish and crab tissue); however, where measured concentrations were not available, EPCs were modeled using regression equations or BSAFs/BAFs presented in Tables 9 (South Branch Creek) and Table 10 (upland area) and discussed in Section 6.2.4.

Central tendency (CT) and upper-bound (reasonable maximum exposure or RME) EPCs were calculated for constituents retained as COPECs for the BERA.

RME[1] EPCs were calculated as the 95% UCL on the mean or the maximum detected concentration, whichever was lower (USEPA, 1989). The 95% UCL on the mean was calculated using USEPA's ProUCL (version 4) statistical software package (USEPA, 2007). Statistical software (ProUCL) is available from the USEPA for calculation of 95% UCLs. ProUCL uses an algorithm to select the optimal UCL based on the data distribution, sample size, and skewness. The selected UCL method (e.g., Chebyshev) was the ProUCL-recommended method; however, the selected UCL value was strictly

[1] Given that the BTAG requested the use of arithmetic averages in the final screening-level risk calculations, 95% UCLs or maximum detected concentrations were considered a conservative estimate of exposure for the RME scenario.

R2-0006427

based on the 95% UCL. The ProUCL selected method used to calculate the 95% UCL and the data distribution is indicated in the summary statistic tables. Attachment C presents the ProUCL outputs. Note that in a limited number of cases, ProUCL was unable to calculate a representative UCL due to an insufficient sample size and/or insufficient detection frequency; under these circumstances, the maximum detected concentration was used as the RME EPC.

CT EPCs were calculated as the arithmetic mean using a proxy concentration equal to one-half the MDL for non-detect results.

A summary of RME and CT EPCs for South Branch Creek is presented in Table 11. A summary of RME and CT EPCs for the upland area of the Site is presented in Table 12. Uncertainties associated with the RME and CT EPCs are discussed Section 8.2. Note: upland area EPCs do not account for visible elemental mercury as it was not feasible to analyze these samples using conventional methods; however, it is assumed that area with visible elemental mercury pose unacceptable risks to potential ecological receptors.

7.2 Benthic Invertebrate Risk Characterization

Potential risks to benthic macroinvertebrate communities in South Branch Creek were evaluated by comparing sediment EPCs (exposure levels) to sediment benchmarks (effects levels) for the protection of benthic receptors.

For the screening-level evaluation, the potential for adverse effects to benthic receptors were evaluated by comparing mean sediment concentrations to New Jersey sediment quality guidelines (NJDEP, 1999) and Effects Range-Low values (ERL – Long et al., 1995). Alternative screening values were included in the BERA. Multiple benchmarks are often recommended for screening chemicals of concern in sediments (Jones and Suter, 1997). Integrative benchmarks developed for the National Oceanic and Atmospheric Administration (NOAA) are included for inorganic and organic chemicals. Equilibrium partitioning benchmarks are included for screening nonionic organic chemicals. Sediment effect concentrations developed as part of the USEPA's Assessment and Remediation of Contaminated Sediment (ARCS) Project are included for inorganic and organic chemicals (USEPA, 1996). Field survey benchmarks developed for the Ontario Ministry of the Environment are included for inorganic and organic chemicals. In addition, USEPA-proposed sediment quality criteria are included along with screening values from USEPA Region IV and Ecotox Threshold values from the USEPA Office of Solid Waste and Emergency Response. There are a limited number of marine-specific benthic TRVs available. Therefore, in order to provide a

R2-0006428

more robust understanding of the range of potential risks, freshwater and marine benchmarks are included for comparison.

Sediment concentrations in South Branch Creek are compared to various sediment benchmarks from a range of agencies and primary literature sources including:

- USEPA ARCS Program;
- MacDonald et al., 2000;
- NOAA;
- Washington State Department of Ecology; and
- Region III BTAG.

Table 13 presents a summary of the sediment benchmark values and their sources. Table 14 compares the mean and maximum sediment concentrations to the range of agency and literature benchmark values identified for each COPEC. As shown in the table, several concentrations exceed these benchmarks. Based on the comparison of Site data to sediment screening criteria, and in consideration of background, the primary risk drivers for benthic invertebrates are likely to be arsenic, barium, mercury, methyl mercury, and furans. Additionally, bulk sediment toxicity testing was performed for lethality and growth (acute toxicity tests). Toxicity test results show the potential for acute lethality, but growth reduction was not observed.

7.3 Estuarine Fish Risk Characterization

Potential risks to estuarine fish communities in South Branch Creek were evaluated by comparing fish tissue (mummichog) EPCs (exposure levels) to tissue TRVs (effects levels) for the protection of aquatic receptors.

Overall, there are limited data linking fish tissue accumulations with specific toxicity endpoints. However, studies from Jarvinen and Ankley (1999), which provides a compendium of studies with tissue residues and effects, were reviewed for this evaluation. Table 15 presents a summary of fish tissue TRVs identified from Jarvinen and Ankley (1999), including information (where available) on the study design. Because there are a limited number of fish tissue TRVs available, TRVs based on freshwater and marine species were included for comparison. In a limited number of cases, benthic tissue TRVs are included if fish tissue TRVs were not identified. In general, the studies cited evaluate no effects levels for gross endpoints (growth, survival

R2-0006429

and reproduction), and do not account for more subtle effects that could hypothetically impact wild fish populations (e.g., endocrine disruption).

Table 16 provides a comparison of Site fish tissue data to Old Place Creek concentrations and the range of tissue TRVs. With the exception of mercury and zinc, RME EPCs are below the lowest identified tissue TRV. However, mercury and zinc RME EPCs are well within the range of TRVs identified. Based on this evaluation, toxicity associated with tissue accumulation is unlikely. Tissue TRVs were not identified for barium or iron; thus, the potential for toxicity associated with tissue accumulation cannot be evaluated. However, RME and CT EPCs for iron are within the range of Old Place Creek tissue concentrations.

Overall, this evaluation of fish tissue indicates that COPECs from South Branch Creek are not bioaccumulating in tissue at levels likely to affect populations of estuarine fish.

7.4 Wildlife Risk Characterization

Potential risks to populations of upper trophic level (wildlife) receptors were evaluated using food chain models. Food chain models estimate the average daily dose (ADD) of COPECs to wildlife by combining measured soil, sediment, and surface water EPCs and measured/modeled prey item EPCs with receptor-specific life history data. The estimated dietary dose (exposure level) is compared to a dietary TRV (effect level) to yield a quantitative estimate of risk (HQ) as follows:

$$HQ = \frac{ADD}{TRV}$$

Generally, the greater the HQ, the greater the likelihood an effect will occur. Although probabilities cannot be specified based on a point-estimate approach, an HQ of approximately 1 is generally regarded as having a low probability of resulting in adverse effects.

The following subsections present receptor exposure assumptions (Section 7.4.1) and dose equations (Section 7.4.2) utilized to calculated the ADD, dietary TRVs (Section 7.4.3), and the results of the risk characterization for South Branch Creek (Section 7.4.4) and the upland area (Section 7.4.5).

7.4.1 Receptor Exposure Assumptions

A BERA cannot reasonably evaluate the potential for adverse effects to every species that may be present and potentially exposed at the Site. As a result, receptors that are

R2-0006430

representative of high ecological or societal value, or those for which sufficient life history data are available and believed to be representative of broader groups of organisms, are selected as representative receptors for evaluation in the BERA.

The following representative species were selected to evaluate the BERA upper trophic level assessment endpoints presented in Table 3 and discussed in Section 4. The representative species selected for each assessment endpoint considers a trophic category and a particular feeding behavior to represent the different exposure scenarios.

Representative wildlife species evaluated at South Branch Creek are:

- Omnivorous mammal: raccoon
- Piscivorous mammal: mink
- Sediment probing bird: spotted sandpiper
- Piscivorous bird: great blue heron

Representative terrestrial wildlife species evaluated in the upland area are:

- Invertivorous mammal: short-tailed shrew
- Carnivorous mammal: red fox
- Invertivorous bird: American woodcock
- Carnivorous bird: red-tailed hawk

Receptor-specific life history data for wildlife receptors used to determine ADDs was primarily obtained from USEPA's Wildlife Exposure Factor Handbook (WEFH – USEPA, 1993). Exposure information for South Branch Creek receptors is presented in Table 17. Exposure information for terrestrial receptors is presented in Table 18. Exposure assumptions are also described in the following subsections.

7.4.1.1 **Body Weight**

Average body weights are used in the BERA. In general, body weight is calculated as the arithmetic mean weights reported for adult males and females in the WEFH (USEPA, 1993).

R2-0006431

7.4.1.2 **Daily Food Ingestion**

Where available, daily food ingestion was calculated using allometric equations (USEPA, 1993; Nagy, 2001). Measured tissue concentrations are primarily reported on a dry weight basis and the BSAFs/BAFs are calibrated to model dry weight concentrations. Therefore, equations for daily ingestion of dry matter are used. Selected allometric equations are based on class and feeding guild (e.g., carnivorous mammals, invertivorous birds). An appropriate allometric equation was not identified for the great blue heron; the selected daily food ingestion is calculated from the mean fresh weight food ingestion rate for males and females (USEPA, 1993), assuming prey items consist of 80 percent water.

7.4.1.3 **Soil/Sediment Ingestion Rates**

Soil/sediment ingestion rates for raccoons (9.4%), spotted sandpipers (18%), red foxes (2.8%), and American woodcocks (10.4%) were obtained from the WEFH (USEPA, 1993), which are based on measurements of acid-insoluble ash of scat. Note that spotted sandpipers' sediment ingestion rates are calculated as the average of four other sandpiper species. Soil/sediment ingestion values for the short-tailed shrew (3%) and red-tailed hawk (5.7%) are the 90th percentile values from the Eco-SSL guidance (USEPA, 2007). Species-specific values were not identified for mink or great blue herons. Therefore, sediment ingestion rates were selected based on surrogate species. For mink, the 90th percentile value for weasels, which corresponds to 4.3 percent, was selected (USEPA, 2007). The WEFH (USEPA, 1993) reports a soil ingestion rate of less than 2 percent for multiple species of duck; given that great blue herons primarily consume fish, 2 percent was considered a conservative estimate of sediment ingestion.

7.4.1.4 **Dietary Composition**

For most species, dietary composition is variable and dependent on several factors including season, geographic location and, more generally, availability of food/prey items. Dietary composition assumptions for the BERA are based on dietary descriptions from the literature, specifically, the WEFH (USEPA, 1993), but are limited by the availability of tissue data (i.e., only fiddler crab and mummichog tissue were collected from South Branch Creek) and availability of uptake for terrestrial exposure pathways.

7.4.1.5 **Water Ingestion Rates**

The creek is tidally influenced and too salty to provide a direct drinking water source for most ecological receptors. However, to account for incidental ingestion of surface

R2-0006432

water while feeding, an incidental ingestion rate of 5 percent of the species-specific drinking water rate was assumed. Species-specific drinking water rates for South Branch Creek receptors are mean values from the WEFH (USEPA, 1999). There are no surface water bodies on the upland area of the Site; therefore surface water ingestion is not considered a relevant exposure pathway for terrestrial receptors.

7.4.1.6 **Area and Temporal Use Factors**

Area use factors (AUFs) estimate the proportion of time a receptor would likely be actively foraging within the Site. The inclusion of an AUF based on receptor and site-specific information reduces the overall uncertainty of the risk assessment. For upper trophic-level receptors potentially exposed to COPECs in Site media, additional site-specific and species-specific information were considered.

South Branch Creek is rip-rap lined and represents a physically-impaired habitat. The wetlands bordering South Branch Creek are of limited areal extent, provide a minimal natural corridor, and have a poor vegetative profile that lacks woody vegetation. The combination of the small corridor and dominance of invasive vegetation have produced a degraded habitat. South Branch Creek extends approximately 0.37 kilometers, with the wetland area encompasses approximately 2.3 acres. As described in the EA (Appendix F to the RI Report), it is anticipated that most of the species spend the majority of time in the higher quality habitat in the surrounding areas. Species-specific data on home range was obtained from the WEFH and evaluated in consideration of the size and habitat of South Branch Creek to determine an appropriate AUF. The species-specific considerations and AUF rationale for wildlife receptors evaluated in South Branch Creek is described below by receptor.

> ***Raccoon.*** Based on raccoons in a riparian habitat, an average home range is 390 acres (USEPA, 1993). Based on this home range estimate, the creek encompasses less than 1 percent of the raccoon's home range. However, despite its small size, South Branch Creek potentially represents an attractive foraging area, relative to the adjacent on-site areas, for raccoons. In addition, species observed in the creek are likely prey items for the raccoon; however, during low tide, fish are not present and the number of crabs and other prey items is substantially reduced. Further, the minimum home range reported in the WEFH corresponds to 2.5 percent of the creek. Based on these considerations and in order to retain the conservative nature of the model, an AUF of 10 percent was assumed for the raccoon.
>
> ***Mink.*** Based on adult mink along a stream, an average home range is 2.24 km (USEPA, 1993). Based on this home range estimate, the creek encompasses

R2-0006433

approximately 17 percent of the mink's home range. As with the raccoon, South Branch Creek potentially represents an attractive foraging area, relative to the adjacent on-site areas, for mink. In addition, species observed in the creek are likely prey items; however, during low tide, their availability is substantially reduced, particularly fish, which are an important food source for the mink. The WEFH also reports an area-based estimate of home range of over 1,900 acres, which corresponds to less than 1 percent of the creek. Therefore, the calculated 17 percent AUF value utilized for the mink is conservative.

Spotted Sandpiper. The WEFH reports a mean territory size of approximately 0.63 acres, which is less than the area of South Branch Creek (AUF of 1005). However, as described throughout this document, suitable nesting habitat does not currently exist along South Branch Creek and will likely never exist due to the industrial setting of the Site. Thus, the lack of supporting habitat and small home range is likely to preclude foraging in South Branch Creek by spotted sandpipers or similar species (i.e., sediment-probing birds). Further, no sediment-probing birds have been observed at the Site. However, to provide a baseline estimate of potential risks to this (unconfirmed) receptor, an AUF of 100 percent is assumed.

Great Blue Heron. Based on herons in freshwater and estuary marshes, an average feeding range is 11 acres (USEPA, 1993). Based on this home range estimate, the creek encompasses approximately 21 percent of the heron's feeding range. Great blue herons will travel one mile to as much as 12 miles to forage (USEPA, 1993). A one-mile foraging radius represents 2,010 acres of foraging area, which is much larger than the 11-acre home range size. Given the potential shoreline foraging habitats on either side of Arthur Kill, and the Rahway River within one mile of Pralls Island, South Branch Creek is unlikely to represent a preferential feeding area of the heron. Therefore, the calculated 21 percent AUF value utilized for the heron is extremely conservative.

Although the Site is currently not used for any operational purposes, the upland terrestrial areas remain highly disturbed as a result of historical practices and operations. The majority of the upland area is covered by asphalt pavement and packed gravel, and abandoned buildings that offer marginal habitat for terrestrial wildlife populations. In addition, the relative absence of vegetation indicates that a terrestrial food chain is limited. Species-specific data on home range was obtained from the WEFH and evaluated in consideration of the 26-acre size of the upland area of the Site and in consideration of the habitat quality. The species-specific considerations and

R2-0006434

AUF rationale for wildlife receptors evaluated in the upland area of the Site described below by receptor.

Short-tailed Shrew. The WEFH reports a mean home range of approximately one acre for the short-tailed shrew (USEPA, 1993), which is less than the area of the upland area of the Site. The ground cover (i.e., asphalt and gravel) generally precludes the presence of burrowing animals. However, to provide a baseline estimate of potential risks to this (unconfirmed) receptor, an AUF of 100 percent is assumed.

Red Fox. Based on adult male and female territory size, the average home range of red foxes is 1,016 acres. Based on this estimate, the upland area of the Site encompasses approximately 3 percent of their home range. However, in order to retain the conservative nature of the model, an AUF of 10 percent was assumed for the red fox.

American Woodcock. Based on adult male and female territory size, the average home range of woodcock's is 73 acres. Based on this estimate, the upland area of the Site encompass approximately 36 percent of the home range. Given the lack groundcover, the Site is unlikely to support populations of prey items (e.g., earthworms) to populations of woodcocks. Therefore, the calculated 36 percent AUF value utilized for the woodcock is conservative.

Red-tailed Hawk. Based on adult male and female territory size, the average home range of red-tailed hawks is 1,743 acres. Based on this estimate, the upland area of the Site encompasses less than 1 percent of their home range. However, in order to retain the conservative nature of the model, an AUF of 10 percent was assumed for the red-tailed hawk.

Several species that potentially utilize the Site are known to migrate or hibernate for part of the year; however, as a conservative measure, a temporal use factor (TUF) of 1 was assumed. This assumption retains the conservative nature of the model. Note for presentation purposes, TUF is not included in the tables.

7.4.2 Calculation of Receptor Intakes

To compare potential upper trophic-level wildlife exposures to adverse effect levels, an estimate of contaminant dose is required. Simplified food web models were developed to calculate ADDs of COPECs that selected receptor groups may be exposed to, either directly or indirectly, from the environmental media at the Site. The ADD represents the dose of a chemical that a receptor may ingest if it foraged within the designated

R2-0006435

exposure areas. Per USEPA Guidance (2007), wildlife receptors are assumed to be exposed to contaminants in soil by two main pathways:

- incidental ingestion of substrate while feeding; and
- ingestion of food items that have become contaminated due to uptake from substrate.

ADDs for upper trophic level wildlife receptors incorporate the substrate and food/prey EPCs developed for each exposure area and receptor-specific exposure parameters.

The ADDs for the raccoon, mink, spotted sandpiper, great blue heron, and short-tailed shrew, red fox, American woodcock, and red-tailed hawk are calculated using the following general equation:

$$ADD = \frac{[(C_P \times IR \times F_P) + (C_S \times IR \times F_S) + ((C_W \times IR_W)] \times AUF \times TUF}{BW}$$

ADD	=	Average daily dose (mg COPEC/kg body weight-day)
DFI	=	Daily ingestion of food/prey (g food ingested/day, dry weight)
EPC_P	=	COPEC concentration in food/prey item (mg/kg)
F_P	=	Food/prey item fraction of diet (unitless e.g., fraction fish)
EPC_S	=	COPEC concentration in soil/sediment (mg/kg)
F_S	=	Soil/sediment fraction of diet (unitless)
EPC_{SW}	=	COPEC concentration in surface water (mg/L)
DWI	=	Daily water ingestion (incidental ingestion while feeding – mL/day)
AUF	=	Area use factor (unitless)
TUF	=	Temporal use factor (unitless)
BW	=	Body weight of the receptor (g)

For the raccoon, mink, spotted sandpiper, and great blue heron, the dietary dose is based on consumption of fiddler crabs and mummichogs and the incidental ingestion of sediment and surface water while feeding. For the short-tailed shrew and American woodcock, the dietary dose is based on the consumption of earthworms and the incidental ingestion of soil while feeding. For the red fox and red-tailed hawk, the dietary dose is based on the consumption of small mammals and the incidental ingestion of soil while feeding. Because no surface water is present in the upland area of the Site, this pathway is excluded from evaluation for the short-tailed shrew, red fox, American woodcock, and red-tailed hawk.

R2-0006436

The receptor dose of COPECs from diet and incidental substrate ingestion is modeled using dry weight parameters. To avoid introducing unnecessary uncertainty into the model by converting parameters from dry weight to wet weight based on approximate moisture contents of dietary items, model parameters for food ingestion rates, and substrate ingestion rates are expressed on a dry weight basis.

The calculated ADDs for upper trophic-level wildlife receptors are then compared to dietary TRVs to evaluate the response of an assessment endpoint to contaminant exposure.

7.4.3 Toxicity Reference Values

For the BERA, an additional review of the literature was conducted to identify 'no observable adverse effect level' (NOAEL) and 'lowest observed adverse effect level' (LOAEL) TRVs. Where available, NOAEL and LOAEL values were obtained from USEPA's Ecological Soil Screening Level (Eco-SSL) Documents (USEPA, 2007). These documents provide calculations of NOAELs for both mammals and birds species for arsenic and most metals and are based on a review of a large number of toxicological studies. Similarly, the data provided in these documents was used to calculate a geometric mean for all of the studies with a LOAEL endpoint.

The toxicity values selected from the literature were modified through the application of conversion factors (CFs) to derive a NOAEL-based and LOAEL-based TRV for each COPEC. The following CFs were applied as necessary:

- Endpoint CF – incorporated for toxicity information derived from endpoints other than NOAELs;
- Species CF – incorporated for toxicity information derived from a different class (e.g., mammalian to avian conversion); and,
- Study Duration CF – incorporated for toxicity information derived from less than chronic studies or studies that did not include a critical life-stage (e.g., reproduction).

These factors were multiplied together to derive the total CF. Literature reported results were divided by the total CF to derive TRVs.

NOAEL-based TRVs and LOAEL-based TRVs for the ecological receptors are presented in the following tables: mammalian receptors - Tables 19 and 20, respectively; avian receptors - Tables 21 and 22, respectively. Mammalian and avian TRVs are presented as applied doses, in units of milligrams of COPEC per kilogram of

R2-0006437

body weight per day (mg/kg-day). The tables include a description of the source, and if applicable, the CFs used to derive the TRVs.

7.4.4 South Branch Creek Wildlife Risk Estimates

Potential RME and CT ecological risks were calculated for raccoons, mink, spotted sandpipers, and great blue herons exposed to COPECs in South Branch Creek. The RME scenario considered exposure to upper-bound EPC estimates (95% UCL or maximum concentrations) and the CT scenario considered mean concentrations. Receptor-specific exposure parameters were held constant between the two scenarios. South Branch Creek receptors were assumed to be exposed to COPECs via incidental ingestion of sediment and surface water and dietary consumption of fiddler crabs and mummichog.

7.4.4.1 **Raccoon**

The EPCs, ADDs, TRVs, and calculated risk estimates (HQs) for the raccoon are presented in Table 23 (RME) and Table 24 (CT). As shown in these tables, no HQs exceed one. Therefore, adverse effects to omnivorous mammals that potentially feed/forage in South Brank Creek are unlikely.

7.4.4.2 **Mink**

The EPCs, ADDs, TRVs, and calculated risk estimates (HQs) for the mink are presented in Table 25 (RME) and Table 26 (CT). As shown in these tables, no HQs exceed one. Therefore, adverse effects to carnivorous mammals that potentially feed/forage in South Brank Creek are unlikely.

7.4.4.3 **Spotted Sandpiper**

The EPCs, ADDs, TRVs, and calculated risk estimates (HQs) for the spotted sandpiper are presented in Table 27 (RME) and Table 28 (CT).

As shown in Table 27, RME and CT NOAEL HQs exceed 1 for arsenic, barium, chromium, copper, lead, mercury, methyl mercury, vanadium, and ortho-PCBs. However, RME and CT LAOEL HQs are less than 1 for chromium, copper, lead, methyl mercury, vanadium, and ortho-PCBs indicating a limited potential for population level effects to sediment-probing birds. Notably, risks to the spotted sandpiper, for several COPECs, are driven by the ingestion of sediment rather than the ingestion prey items.

R2-0006438

Based on this evaluation, there is a potential for adverse ecological effects to sediment-probing birds from exposure to COPECs in South Branch Creek. Risks are primarily driven by arsenic, barium, and mercury.

7.4.4.4 **Great Blue Heron**

The EPCs, ADDs, TRVs, and calculated risk estimates (HQs) for the great blue heron are presented in Table 29 (RME) and Table 30 (CT). As shown in these tables, no HQs exceed one. Therefore, adverse effects to piscivorous birds that potentially feed/forage in South Brank Creek are unlikely.

7.4.4.5 **Summary of South Branch Creek Wildlife Risks**

Table 31 presents a summary of wildlife risks for receptors potentially exposed to COPECs in South Branch Creek. No unacceptable risks were identified for omnivorous mammals (represented by the raccoon), piscivorous mammals (represented by the mink), or piscivorous birds (represented by the great blue heron). However, there is a potential for adverse ecological risk to sediment-probing birds (represented by the spotted sandpiper), primarily from exposure to arsenic, barium, and mercury.

7.4.5 Terrestrial Wildlife Risk Characterization

Potential RME and CT ecological risks were calculated for short-tailed shrews, red foxes, American woodcocks, and red-tailed hawks exposed to COPECs in the upland area of the Site. The RME scenario considered exposure to upper-bound EPC estimates (95% UCL or maximum concentrations) and the CT scenario considered mean concentrations. Receptor-specific exposure parameters were held constant between the two scenarios. Terrestrial receptors were assumed to be exposed to COPECs via incidental ingestion of soil and dietary consumption of either earthworms (for short-tailed shrews and American woodcocks) or small mammals (for red foxes and red-tailed hawks).

As noted throughout this document, soils in the area around the cell building, where elemental mercury spheres were observed, were not analyzed for mercury by any method as it was not feasible with conventional analysis methods. Therefore, the risk associated with exposure to these soils was not quantitatively evaluated. However, it is reasonable to believe that risks from exposure in areas with visual elemental mercury exceed the risks calculated for mercury in the other portions of the upland area. Therefore, the elemental mercury “footprint” area is considered as having unacceptable levels of risks for ecological receptors. Remedial actions to limit exposure to elemental mercury in soil will be necessary to address this area of the Site for ecological risks.

R2-0006439

7.4.5.1 **Short-tailed Shrew**

The EPCs, ADDs, TRVs, and calculated risk estimates (HQs) for the short-tailed shrew are presented in Table 32 (RME) and Table 33 (CT). As shown in these tables, RME and CT NOAEL HQs exceed 1 for antimony, cadmium, lead, mercury, Aroclor 1254/1260, and hexachlorobenzene; however, with the exception of hexachlorobenzene, LOAEL HQs are less than 1, indicating a limited potential for population level effects.

Based on this evaluation, there is a potential for adverse ecological effects to invertivorous mammals from exposure to COPECs in soil in the upland area of the Site. Calculated risks are primarily driven by hexachlorobenzene; however, areas with elemental mercury spheres are also assumed to pose an unacceptable risk to ecological receptors.

7.4.5.2 **Red Fox**

The EPCs, ADDs, TRVs, and calculated risk estimates (HQs) for the red fox are presented in Table 34 (RME) and Table 35 (CT). As shown in these tables, no HQs exceed one. Therefore, with the exception of the elemental mercury "footprint," adverse effects to carnivorous mammals that potentially feed/forage in the upland area of the Site are unlikely.

7.4.5.3 **American Woodcock**

The EPCs, ADDs, TRVs, and calculated risk estimates (HQs) for the American woodcock are presented in Table 36 (RME) and Table 37 (CT). As shown in these tables, RME and CT NOAEL HQs exceed 1 for antimony, lead, mercury, vanadium, and hexachlorobenzene; however, with the exception of mercury and hexachlorobenzene, LOAEL HQs are less than 1, indicating a limited potential for population level effects.

Based on this evaluation, there is a potential for adverse ecological effects to invertivorous birds from exposure to COPECs in soil in the upland area of the Site. Calculated risks are primarily driven by hexachlorobenzene and mercury; areas with elemental mercury spheres are also assumed to pose an unacceptable risk to ecological receptors.

7.4.5.4 **Red-tailed Hawk**

The EPCs, ADDs, TRVs, and calculated risk estimates (HQs) for the red-tailed hawk are presented in Table 38 (RME) and Table 39 (CT). As shown in Table 38, the RME NOAEL HQ for mercury exceeds 1; however, the RME LOAEL HQ as well as the CT

R2-0006440

HQs (Table 39) are less than 1 indicating a limited potential for adverse ecological effects to populations of carnivorous birds. The RME NOAEL, RME LOAEL, and CT NOAEL HQs exceed 1 for hexachlorobenzene.

Based on this evaluation, there is a potential for adverse ecological effects to carnivorous birds from exposure to COPECs in soil in the upland area of the Site. Calculated risks are primarily driven by hexachlorobenzene; however, areas with elemental mercury spheres are also assumed to pose an unacceptable risk to ecological receptors.

7.4.5.5 **Summary of Terrestrial Wildlife Risks**

Table 40 presents a summary of wildlife risks for receptors potentially exposed to COPECs in soil in the upland area of the Site. No unacceptable risks were identified for carnivorous mammals (represented by the red fox). Based on the risk calculations, there is a potential for adverse ecological effects to invertivorous mammals and birds and, to a lesser extent, carnivorous birds. NOAEL HQs exceed 1 for at least one receptor for antimony, cadmium, lead, mercury, vanadium, Aroclor 1254/1260, and hexachlorobenzene. The spatial distributions of these COPECs are discussed below.

> ***Antimony***. Antimony was detected in less than 20 percent of the surficial soil samples collected in the upland area of the Site, all of which were flagged with a J-qualifier indicating an estimated value. The highest concentrations are generally localized to areas adjacent to the Praxair Hydrogen Plant, located in the northwest corner of the Site. It should also be noted that the MDLs for antimony are elevated in terms of evaluating ecological risks; the minimum MDL for antimony, 1 mg/kg, results in an RME HQ of approximately 2. Because a soil-to-invertebrate BAF value could not be identified in the literature, a BAF of 1 was assumed; however, the Agency for Toxic Substances and Disease Registry (ATSDR, 1992) reports that "extensive studies indicate that…there was no bioaccumulation of antimony in small mammals compared with their food." Given the localized nature of the antimony detects, the poor quality habitat provided by the upland area, ecological effects from exposure to antimony on a population-level or food-web basis are unlikely. Antimony is not associated with operation of the facility. However, there is the potential that the antimony concentrations might be associated with anthropogenic fill used in Site construction.
>
> ***Cadmium***. The highest concentrations of cadmium in surficial upland area soil are generally located in the central portion of the Site near Old Cell Building 230 and New Cell Building 240. Cadmium is not associated with operation of

R2-0006441

the facility. However, there is the potential that the cadmium concentrations might be associated with anthropogenic fill used in Site construction.

Lead. The highest concentrations of lead are generally localized to the areas adjacent to the Praxair Hydrogen Plant, located in the northwest corner of the Site. These concentrations are also co-located with the highest concentrations of antimony. Lead is not associated with operation of the facility. However, there is the potential that the lead concentrations might be associated with anthropogenic fill soil used in Site construction.

Mercury. Elevated levels of mercury were found in the anthropogenic fill soils throughout nearly the entire Site. The presence and distribution of mercury in Site soil appears to be related to the chlor-alkali manufacturing process, with higher concentrations found around the former production area near Buildings No. 230 and 240.

Vanadium. Vanadium was detected in the majority of surficial soil samples; however, vanadium is not associated with operation of the facility. There is the potential that the vanadium concentrations might be associated with anthropogenic fill used in Site construction.

Aroclor 1254/1260. Aroclor 1254 was the predominant PCB mixture detected within Site soils, with Aroclor 1260 occurring less frequently. No other PCB Aroclors were detected on the Site. The highest concentrations are found around the former production area near Buildings No. 230 and 240. There is a potential for the PCBs detected to be related to the transformers used at the LCP Site.

Hexachlorobenzene. Hexachlorobenzene at the Site was generally detected only in the anthropogenic fill with the highest levels being found in the surficial fill in the area of the former production area. Accordingly, the presence and distribution of hexachlorobenzene in soils appears to be related to the chlor-alkali manufacturing process at the LCP Site.

Based on the spatial distribution described below and the calculated LOAEL HQs, adverse ecological effects to populations of terrestrial receptors are unlikely for the majority of these COPECs. Risk drivers for the upland area are expected to be hexachlorobenzene and mercury. Areas with visible elemental mercury are also assumed to pose unacceptable risks to potential ecological receptors.

R2-0006442

8. UNCERTAINTY ASSESSMENT

The goal of the uncertainty analysis is to qualitatively evaluate the degree of confidence in the ecological risk estimates. Uncertainties are inherent in the process of quantitative risk assessment due to the use of environmental sampling results, assumptions regarding exposure, and the quantitative representation of chemical toxicity. Analysis of the critical areas of uncertainty in risk assessment provides a better understanding of the quantitative results through the identification of the uncertainties that most significantly affect the results.

USEPA's ERAGS (USEPA, 1997) and the Guidelines for Ecological Risk Assessment (USEPA, 1998) stress the importance of providing an in-depth analysis of uncertainties so that risk managers are better informed when evaluating risk assessment conclusions. The following sections describe significant sources of uncertainty that have been identified for this assessment.

8.1 Uncertainty in Data Analysis

8.1.1 Data Collection

The soil dataset used in the ecological risk evaluation included samples collected during multiple field analytical phases between 2001 and 2008. Since industrial operations had stopped substantially before this time and some degree of degradation has likely occurred, the concentrations in the included samples are expected to be conservative representations of current conditions. The age of the data collected from South Branch Creek contributes a higher degree of uncertainty to the risk assessment due to the constant tidal influx of water and sediment. Conditions in South Branch Creek have likely changed considerably with time; however, the use of all available sediment data retains the conservative nature of the risk assessment. For surface water, only the most recent (Phase II) data was used, as this data was considered more likely to reflect the current conditions, which may under- or over-estimate current conditions. Notably, the contribution of surface water to overall risk was de minimis for wildlife receptors; thus, the surface water dataset is unlikely to have affected the conclusions of the BERA. Because risks to estuarine fish were characterized based on fish tissue concentrations; the surface water dataset also does not affect the conclusions for this assessment endpoint.

Biota data may be biased high due to inclusion of sediment from gut or poorly depurated samples prior to analysis in some samples. For example, elevated levels of barium were reported in some crab samples yet barium under normal geochemical

R2-0006443

conditions is not very bioavailable. The inadvertent inclusion of sediment in biota samples may have resulted high biased estimates of risks.

8.1.2 Constituent Identification

Uncertainty associated with the identification of constituents in environmental samples is relatively low. The sampling protocol was targeted to appropriate analytes based on historical information, extensive prior investigation (including the SLERA), and regulatory guidance. However, there is some uncertainty associated with determining whether constituents identified in environmental media at the Site are present as a result of historical activities conducted at the Site or as a result of natural and/or anthropogenic background or off-site sources.

8.1.3 Potential Data Gaps

Data gaps were identified associated with the sampling and analysis program conducted at the Site. Per the WP, sediment and surface water were analyzed for PCBs as Aroclors, whereas tissue samples were analyzed for individual PCB Congeners. To account for this inconsistency in the dataset, Aroclor concentrations in tissue were modeled from sediment concentrations using BSAFs. Uncertainty associated with modeling tissue concentrations may under- or over-estimate risks. Concentrations of ortho-PCB congeners in sediment, however, were not back-calculated from tissue concentrations. This is considered a data gap and a source of uncertainty; however, given that ecological exposure primarily occurs via food chain exposure and that measured concentrations of Aroclors in sediment likely captured a portion of the mono-ortho and non-ortho congeners, it is unlikely that this data gap will significantly affect the outcome of the risk assessment.

Per the WP, sediment and surface water were also analyzed for dioxin and furan congeners. Because these compounds were previously not considered site-related, they were not analyzed for in tissue. However, additional detailed review as part of the RI Report now suggests furans may be site-related. To address the data gap resulting from the lack of tissue data, concentrations in tissue were modeled from sediment concentrations. Similar to PCBs, the assumptions regarding biotic uptake of constituents may result in an under- or over estimate of risk. Conversely, not modeling the results would result in a greater underestimation of risk.

R2-0006444

8.2 Uncertainty in Ecological Exposure Assessment

8.2.1 Conceptual Site Model

There is some uncertainty as to whether the receptors identified within the CSM adequately represent the ecosystem and other species potentially at risk within the South Branch Creek and the upland area of the Site. The selection of the important receptor species was done in consultation with biologists both within the USEPA, USFWS, and other members of the BTAG team. However, risk for terrestrial receptors should be considered hypothetical given the highly disturbed nature of the habitat in the former facility. The majority of the Site contains building foundations, paved areas, rail corridors, and gravel access roads. While there are mowed and maintained vegetative areas in isolated corridors, these areas generally contain non-native species of limited ecological quality. These factors may tend to overestimate the potential risks for ecological receptors at the Site. Dermal and inhalation exposure is not explicitly considered in this assessment. However, the models are generally unavailable. This may underestimate potential Site risks.

8.2.2 Exposure Point Concentrations

8.2.2.1 Reasonable Maximum Exposure EPC

RME EPCs are primarily 95% UCLs calculated using ProUCL statistical software. In a limited number of cases, where a UCL could not be calculated or the UCL exceeded the maximum detected concentration, the maximum detected concentration was selected as the RME EPC. In the derivation of RME EPCs, the use of a 95% UCL could underestimate or overestimate risks. Conversely, the use of a maximum detected concentration as the RME EPCs to represent a data set could overestimate risks.

Assumptions about the distribution of the data must be made in the calculation of a 95% UCL and, therefore, contribute to uncertainty in the calculation. The UCL values utilized in the risk assessment were adopted directly from ProUCL. The selected UCL method (e.g., Chebyshev) was the ProUCL-recommended method; however, the selected UCL value was strictly based on the 95% UCL as opposed to the percent value (e.g., 97.5% or 99%) recommended by the program. As described below, the highly conservative 97.5 or 99% values recommended by ProUCL are a consequence of how the simulation studies used to construct the ProUCL algorithm were interpreted.

In the field, we never know the true population variance for a site; our estimate is based on the sample variance. If the variance of the sample dataset is representative of the true population variance (i.e., the sample variance and population variance are both high

R2-0006445

or both low), then the UCL methods will provide adequate coverage. If our sample dataset has high variance, but the site actually has low variance, then the UCL still provides adequate coverage and, in fact, likely overestimates the true population mean. Alternatively if our sample dataset has low variance, but the site actually has high variance, then the UCL will underestimate the mean.

In developing the ProUCL algorithm, USEPA methodology looked at highly skewed datasets and determined correctly that the UCL captured the true mean less than 95% of the time. In an attempt to ensure adequate coverage of the mean, an additional degree of conservatism was applied to yield a 97.5% or 99% UCL. However, this methodology is flawed as it did not fully consider the reason why the method failed to provide coverage. A review of individual sample sets (drawn from the highly skewed population dataset), showed that the method failed to provide coverage when the variance was low, but provided adequate coverage when the variance was higher (i.e., similar to the population variance).

Thus, to ensure adequate coverage of the mean, the ProUCL algorithm should only select upper percent UCLs for sample sets with low variance. However, the algorithm of the current version of ProUCL applies such additional conservatism to sample sets with high variance.

This apparent discrepancy has been published in several forums. California Department of Toxic Substances Control has adopted the alternate approach as the favored technique for site evaluation but allows users to continue to utilize ProUCL. The State of Florida has developed an alternative tool (FLUCL) specifically to counter this concern.

Based on these considerations, we feel that the use of 95% UCLs presented provides adequate coverage of the mean and a conservative EPC for calculating Site risks. Geosyntec will provide additional information upon request. The text will be revised to include additional discussion of the UCL selection methodology as described above.

8.2.2.2 **Central Tendency EPC**

The arithmetic mean was selected to represent the CT EPC. For datasets with detect and non-detect results, the arithmetic mean was calculated using one-half the MDL for non-detect results. Given the high frequency of detection for the majority of COPECs, the method used to calculate the mean is unlikely to have a significant effect on the CT EPC or resultant risk estimate. However, to evaluate the potential impact of this approach on the ERA, means calculated using one-half the detection limit were compared to Kaplan-Meier means calculated using ProUCL. For South Branch Creek,

R2-0006446

COPECs were detected in 100 percent of tissue samples and given the marginal contribution of surface water to overall risks, uncertainties associated with EPC for these media are not evaluated. The table below compares the selected CT EPC for sediment and soil COPECs detected in less than 75 percent of samples with the Kaplan-Meier EPC calculated by ProUCL. As indicated in the table, EPCs are only marginally different and, thus, the CT EPC selection method does not affect the conclusions of the BERA.

Medium	COPEC	CT EPC	Kaplan-Meier Mean
Sediment	Hexavalent Chromium	2.62	2.97
	Total PCBs	0.11	0.0485
Soil	Antimony	5.3	5.61
	Beryllium	2.0	2.08
	Cadmium	3.1	3.19
	Hexavalent Chromium	1.5	2.02
	Selenium	1.5	1.52
	alpha-Chlordane	0.0051	0.00177
	Hexachlorobenzene	12	11.5
	Trichloroethylene (TCE)	0.86	0.844

8.2.3 Wildlife Exposure Factors

The intake (ingestion) rates for food and soil used to estimate exposure of wildlife at the Site are derived from literature reports of intake rates, body weights, dietary compositions, consumption rates, and metabolic rates for receptors at other locations or from measurements of laboratory-raised organisms. These values may or may not serve as appropriate models for site-specific intake rates of wildlife receptors at the Site. For example, the animal portion of terrestrial receptors' diets was assumed to be 100 percent earthworms or 100 percent small mammals; the actual dietary compositions likely include other items, such as non-subterranean invertebrates with lesser exposure to soil. Moreover, the actual dietary composition of an organism will vary daily and seasonally. Therefore, risk for indirect exposure via ingestion of contaminated food/prey items may be overestimated.

R2-0006447

8.3 Uncertainty in Ecological Toxicity Assessment

8.3.1 Toxicity Reference Values

Uncertainty is inherent in the TRVs utilized in evaluating ecological risks. Most of the TRVs were developed by the USEPA for regulatory purposes and are intended to represent upper-bound estimates of potential toxicity. While this helps ensure the protectiveness of decisions based on the TRV, it should be recognized that a dosage exceeding the TRV (i.e., the HQ is greater than one) does not necessarily indicate the likelihood for toxicity.

Generally the toxicity data that form the basis of the TRV are generated under laboratory conditions, and extrapolation of those data to free-living receptors is uncertain. One factor is that laboratory organisms are more homogenous than wild populations. For example, laboratory test populations are usually the same genetic strain, age, and gender, and are usually health; oftentimes, the test populations represent the most sensitive species and/or life stage. Laboratory animals are also generally free from the stresses experienced by a wild population. In contrast wild populations are genetically diverse, consist of individuals of different ages and genders, and health status may vary widely between individuals (regardless of environmental conditions).

Toxicity studies based on different species, dosing routes, chemical forms, and test conditions can be extremely variable. No one result in an array of such data is inherently more reliable than another. NOAEL TRVs for the majority of BERA COPECs were obtained from USEPA's Eco-SSL documents, which have compiled a broad array of toxicity data and derive TRVs using a multi-stakeholder review process. Similarly, data provided in these documents was used to calculate a LOAEL TRV. However, for some COPECs, the TRV is based on a single study.

Sensitivity to dioxin-like compounds can vary by more than 1000-fold among avian species (Head et al., 2008). Head et al., (2008) further explore this uncertainty by comparing the relative sensitivities of 12 species of birds for which egg injection data were available. This comparison identified the chicken as the most sensitive species, followed by the ring-necked pheasant, which was 12 times less sensitive than the chicken. The least sensitive species, the mallard was reported to be more than 1,000 times less sensitive than the chicken. The TCDD avian TRV selected for the risk assessment is based on the sensitive species study conducted in ring-necked pheasants (Nosek et al., 1992). The available data indicate that the selected TRV based on a ring-necked pheasant toxicity test is likely to be protective of wild birds.

R2-0006448

Avian TRVs could not be identified for several COPECs (antimony, beryllium, hexachlorobenzene, and TCE). Rather than excluding these compounds from quantitative evaluation, which would certainly underestimate risks to birds, the ADD was compared to mammalian TRV with an applied 3X safety factor. It is uncertain whether this approach will under- or over-estimate risks; however, it is more conservative than excluding this contaminant from the quantitative risk evaluation.

Potential effects to estuarine fish were evaluated using tissue TRVs identified from the primary literature. Overall, the database of tissue TRVs is limited, which introduces uncertainty into the assessment. Further, toxic effects may be associated with little or no tissue accumulation, since toxicity can be mediated by many mechanisms. To reduce uncertainty with this assessment/measurement endpoint, studies identifying accumulations that have not been linked to toxicity (i.e., no effect levels) were utilized.

8.3.2 Bioavailability

Many of the toxicity values for metals are derived from animal studies that are conducted with metals in a bioavailable form (e.g., salts). However, the bioavailability of aged and mineralized metals at the Site may be considerably lower than those used in a laboratory setting. Thus, the total metal concentrations reported may not be characteristic of the concentrations available for uptake. Unfortunately, data are not yet available to quantitatively evaluate this parameter. As a conservative assumption the bioavailability was assumed to be 100 percent. Therefore the risks for direct exposure via ingestion of metals may be overestimated.

8.3.3 Acclimation and Adaptation

Populations chronically exposed to metals often exhibit enhanced tolerance relative to unexposed or naïve populations through acclimation and/or selection for resistant phenotypes (Kapustka et al., 2003). Given the age of the Site and the presence and variety of wildlife receptors, it is possible that metal-tolerant species or communities have developed at the Site. This assessment does not consider a receptor's capacity to acclimate or a population's ability to adapt to metals.

8.3.4 Population Uncertainty

Population level effects are difficult to assess using food-chain modeling. As a conservative evaluation, potential risks are presented as point-estimates for ecological receptors with limited home ranges (e.g., shrews). However, elevated point risk may have little impact on population dynamics and a sustainable food-web across the entire Site if the area of elevated risk is small relative to the Site. Elevated concentrations of

R2-0006449

mercury are largely focused around the former cell building. Therefore, the potential risks presented may overestimate the population level risks across the entire Site.

8.4 Risks Relative to Source of Chemicals

The risk characterization identified mercury and several other chemicals that have the potential to result in adverse effects. The presence of mercury at the Site can largely be attributed to historic operations conducted at the Site. However, concentrations of several of the other chemicals detected in environmental media at the Site are commonly associated with natural and anthropogenic background conditions and off-site sources. Thus, the concentrations at the Site may not be entirely attributable to site operations or releases.

Metals and several other compounds occur naturally in soils and groundwater at varying concentrations. Over time, the concentration of naturally occurring metals in soil and groundwater will be influenced by geomorphologic processes such as erosion, weathering, and dissolution of mineral deposits. For example, arsenic background values reported by the USGS for Union County (USGS, 2008) range to 20 mg/kg; 80 percent of surface soil concentrations detected at the Site are below this value.

Human activities, particularly in urban environments, may also result in anthropogenic "background" concentrations of chemicals in environmental media. Common anthropogenic background sources include lead from automobile emissions, arsenic from the use of defoliants, petroleum compounds from automobile and equipment leaks, pesticides/herbicides from agricultural practices, and PAHs from combustion of hydrocarbons. Widespread, ambient anthropogenic impacts as a result of historic activities are typical of industrial settings such as that of the Site. Ambient background concentrations were documented by the NJDEP in the Urban Piedmont area of New Jersey (NJDEP, 2003). Investigations conducted in the vicinity of the LCP Site have indicated that historic activities conducted at neighboring properties (e.g., duPont, GAF, NOPCO) included the use of arsenic and chlorobenzenes. In addition, several contaminants, including dioxins are found in regional sources and can be transported via air and sediment deposition.

Attributing elevated chemical concentrations at the Site is further complicated by the fact that the LCP facility, along with most of the industrial property on Tremley Point, is constructed on former lowlands brought up to grade by the placement of fill material. The fill material used on the LCP Site may include soil, ash, dredge spoil, demolition debris, and other waste materials and meets the legal definition of "Historic Fill" contained in the New Jersey "Technical Requirements for Site Remediation"

R2-0006450

[N.J.A.C.7:26E]. Contaminants that are ubiquitous in fill materials include metals (e.g., lead, chromium, and arsenic) and PAHs as a result of the use of combustion residue (e.g., coal ash and slag) as fill.

There is uncertainty associated with determining whether the concentrations of some chemicals detected at the Site and the resultant risks are Site-related or are attributable to the industrial nature of the area or naturally-occurring background. Risks from metals (e.g., arsenic, chromium, lead) and organics (PAHs and dioxins) are likely increased due to the presence of these chemicals in Site media from non-site related sources. Risk management for the Site should consider the potential role of naturally occurring inorganics, anthropogenic sources, and contamination associated with the historical fill when considering remedial options.

R2-0006451

9. BERA SUMMARY AND CONCLUSIONS

Potential ecological risks were evaluated for benthic invertebrates, estuarine fish, omnivorous mammals (i.e., raccoon), piscivorous mammals (i.e., mink), sediment-probing birds (i.e., spotted sandpiper) and piscivorous birds (i.e., great blue heron) potentially exposed to COPECs along South Branch Creek, and invertivorous mammals (i.e., short-tailed shrew), carnivorous mammals (i.e., red fox), invertivorous birds (i.e., American woodcock), and carnivorous birds (i.e., red-tailed hawk) potentially exposed to COPECs in the upland area. Exposure was assumed to occur via the ingestion of contaminated prey items and due to incidental ingestion of contaminated media while feeding and grooming.

The BERAs supports the following conclusions:

- Several COPECs in South Branch Creek sediment have the potential to result in adverse ecological effects to benthic macroinvertebrates as determined by comparison to marine sediment screening levels. Arsenic, barium, mercury, methyl mercury are expected to be the primary risk drivers. South Branch Creek sediment acute toxicity testing results also indicated a potential for reduced benthic invertebrate survival.

- Fish tissue concentrations measured in South Branch Creek were within the range of tissue TRVs identified in the primary literature, indicating that South Branch Creek COPECs are not bioaccumulating to a level likely to adversely affect populations of estuarine fish.

- Ecological risks for omnivorous mammals (raccoons), piscivorous mammals (mink), and piscivorous birds (great blue herons) exposed to COPECs in South Branch Creek were below established risk levels. However, there is a potential for ecological risk to sediment-probing birds (spotted sandpipers) exposed to COPECs in South Branch Creek. Primary risk drivers are arsenic, barium, and mercury.

- Areas of visible elemental mercury contamination in the upland area of the Site could not be quantitatively evaluated. For the purposes of this baseline risk assessment, areas with visible elemental mercury were assumed to present an unacceptable risk for potential ecological receptors. Risks attributed to these areas are based on current Site conditions (i.e., unremediated conditions).

- No unacceptable risks were identified for carnivorous mammals (red foxes) exposed to COPECs in the upland area of the Site. There is a potential for

R2-0006452

ecological risk to invertivorous mammals (short-tailed shrews), invertivorous birds (American woodcocks), and carnivorous birds (red-tailed hawks). Although the Site may serve as a wildlife corridor for terrestrial species, significant ecological exposure to soil is not expected to occur given the highly disturbed habitat, lack of prey species and vegetation and limited exposure potential due to buildings, pavement and gravel on site, and anticipated future land use. Based on calculated risk estimates, primary risk drivers are mercury and hexachlorobenzene.

Elevated HQ risks were estimated in this BERA for benthic invertebrates and sediment-probing birds for exposure to several COPECs in South Branch Creek. These risks are consistent with the reduced survival in the acute toxicity sediment testing results. These data support the premise that Site contaminants in sediment are sufficient to cause adverse alterations to the functioning of benthic invertebrate communities. Elevated concentrations of the COPECs are generally higher in samples closer to the former facility. Arsenic, barium, and mercury are the primary risk drivers in South Branch Creek.

Elevated HQ risks for were estimated in this BERA for terrestrial mammals (invertivores) and birds (invertivores and, to a lesser extent, carnivores). Primary risk drivers are mercury (including visible elemental mercury) and hexachlorobenzene. However, the former facility offers limited ecological habitat for these receptors. As shown in Figure 2, the majority of the Site is paved or occupied by structures. Concentrations tend to be focused in areas nearby the former operational areas of the Site. It is likely that remedial actions to address primary human health risk-drivers at the Site in these areas will also tend to reduce overall potential ecological risks for terrestrial receptors. However, residual ecological risks will be addressed in the FS.

R2-0006453

10. REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR), 1992. Toxicological Profile for Antimony. US Public Health Service, Atlanta, Georgia.

Agency for Toxic Substances and Disease Registry (ATSDR), 2000. Toxicological Profile for Polychlorinated Biphenyls. US Public Health Service, Atlanta, Georgia.

Agency for Toxic Substances and Disease Registry (ATSDR), 2002. Toxicological Profile for Hexachlorobenzene. US Public Health Service, Atlanta, Georgia.

Brown and Caldwell, July 2013. "Remedial Investigation Report, LCP Chemicals, Inc. Superfund Site, Linden, New Jersey."

Brown and Caldwell, September 2007, "Phase II Site Characterization Summary Report for LCP Chemicals Superfund Site Linden NJ".

Brown and Caldwell, August 2006, Revised October 2006. "Addendum No. 5, Field Operations Plan for the LCP Chemicals, Inc. Superfund Site, Ecological Sampling".

Brown and Caldwell, Revised October 2006. "Interim Ecological Risk Assessment Problem Formulation".

Brown and Caldwell, August 2006, Revised October 2006. "QAPP Addendum for South Branch Creek Sampling".

Brown and Caldwell, September 2006, Revised October 2006. "Supplemental Work Plan: Sediment Toxicity Testing (South Branch Creek), Phase II Remedial Investigation LCP Chemicals, Inc. Superfund Site".

Brown and Caldwell, July 2004, Revised August 2006, Revised October 2006. "Addendum No. 2 (South Branch Creek & Ecological Issues) Work Plan: Phase II Remedial Investigation, LCP Chemicals, Inc. Superfund Site".

CDM Federal Programs Corporation. 2004. Final Screening Level Ecological Risk Assessment (SLERA), LCP Chemicals Site.

EcolSciences, Inc. 2006. "Delineation of On-Site Wetlands and Watercourses." 2006.

Head, JA, ME Hahn, and SW Kennedy. 2008. Key Amino Acids in the Aryl Hydrocarbon Receptor Predict Dioxin Sensitivity in Avian Species. Environ. Sci. Technol. 42:7535-41.

Hinton, J and M Veiga, 2008. The influence of organic acids on mercury bioavailability: insight from an earthworm assessment protocol. Environ. Bioindicators 3:47-67.

Jones D.S. and G.W. Suter. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Sediment-Associated Biota: 1997 Revision. ES/ER/TM-95/R4.

Kapustka, L.A., W.H. Clements, L. Ziccardi, P.R. Paquin, M. Sprenger and D. Wall. 2003. Issue Paper on the Ecological Effects of Metals, Draft. Submitted to the United

Knightes, C, 2008. Development and test application of a screening-level mercury fate model and tool for evaluating wildlife exposure risk for surface water with mercury-contaminated sediments (SERAFM). Environ. Modeling & Softare 23:495-510

Mauclair, C, Layshock and A. Carpi. 2008. Quantifying the effect of humic matter on the emission of mercury from artificial soil surfaces. Applied Geochem. 23:594-601.

McComish, M and J Ong, 1988. Mercury. In Environmental Inorganic Chemistry. Properties, Processes, and Estimation Methods. Bodek, I et al, eds. SETAC Special Publications Series. Pergamon Press, New York.

National Oceanic and Atmospheric Administration (NOAA). 1999. Coastal Hazardous Waste Site Review, LCP Chemical, Inc., Linden, New Jersey, CERCLIS #NJD079303020.

New Jersey Department of Transportation (NJDOT), NJ Transit, March 31, 2008. “Proposed Transportation Capital Program Fiscal Year 2009.” Section 3.

NJDEP. 2002. Mercury Task Force, Vol II Impact of Mercury in New Jersey. January.

Nosek, J.A., S.R. Craven, J.R. Sullivan, S.S. Hurley, and R.E. Peterson. 1992. Toxicity and Reproductive Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin in Ring-necked Pheasants. J. Toxicol. Environ. Health. 35:187-198.

Rahway River Association, 2008, “Rahway River Fact Sheet”, retrieved June 18, 2008 from http://www.rahwayriver.org/current_events/fact_sheet.htm.

TCC (The Chazen Companies), 2007. “Ecological Assessment Report, LCP Chemicals, Inc. Superfund Site, City of Linden, Union County, New Jersey.” August 23, 2007

R2-0006455

USEPA, 2008a. Priority PBT Profiles. Persistent Bioaccumulative and Toxic (PBT) Chemical Program. Office of Pollution Prevention and Toxics (OPPT). http://www.epa.gov/pbt/pubs/cheminfo.htm

USEPA, 2008b. Framework for Application of the Toxicity Equivalence Methodology for Polychlorinated Dioxins, Furans, and Biphenyls in Ecological Risk Assessment. Office of the Science Advisor, Washington, D.C. EPA/100/R-08/004

USEPA, 2008c. Biota-Sediment Accumulation Factor (BSAF) Database. Available online at: hht://www.epa.gov/med/prods_pubs.htm

USEPA, 2007. ProUCL Statistical Software Package 4.0. Available online at: http://www.epa.gov/esd/tsc/software.htm

USEPA, 2005. Guidance for Developing Ecological Soil Screening Levels (Eco-SSLs). OSWER Directive 9285.7-55. February.

USEPA, 1998. Guidelines for Ecological Risk Assessment. Risk Assessment Forum. U.S. Environmental Protection Agency, Washington DC. EPA/630/R-95/002F. May 14, 1998 Federal Register 63(93): 26846-26924.

USEPA, 1997. Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments. Interim Final. U.S. Environmental Protection Agency, Environmental Response Team (Edison, NJ). June 5, 1997.

USEPA, 1996. Calculation and Evaluation of Sediment Effect Concentrations for the Amphipod Hyalella azteca and the Midge Chironomus riparius, EPA 905-R96-008, Great Lakes National Program Office, Chicago, Ill.

USEPA, 1993. Wildlife Exposure Factor Handbook. USEPA Office of Research and Development, Washington, DC. EPA/600/R-93/187.

USEPA, Region 5. 2003. Region 5 Screening Values. Updated August 22, 2003. http://www.epa.gov/reg5rcra/ca/ESL.pdf

Zhu, J, Yang, H and Y He, 2004. Organic mercury tolerance, absorption and transformation in spartina plants. J. Plant Physiol. Molec. Biol. 30:577-582.

R2-0006456

FINAL
BASELINE ECOLOGICAL RISK ASSESSMENT

TABLES

Table 1
Final Baseline Ecological Risk Assessment
Chemicals of Potential Ecological Concern for South Branch Creek
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs (1)					
Constituents (2)	Highest HQ (3)	Species with Highest HQ	Other Species with HQs > 1	Retained as COPEC	Rationale (4)
Elements					
Aluminum	1E+03	Mink	Sandpiper (400), Muskrat, Heron		A
Arsenic	2E+01	Mink	Heron (3), Sandpiper	X	
Barium	3E+02	Sandpiper	Heron, Muskrat, Mink	X	
Chromium	4E+01	Sandpiper	Heron, Mink, Muskrat	X	
Copper	6E+01	Sandpiper	Muskrat	X	
Iron	6E+02	Mink	Muskrat (50), Heron	X	B
Lead	8E+01	Sandpiper	Heron, Mink	X	
Manganese	3E+00	Mink	Muskrat	X	
Mercury	4E+03	Sandpiper	Heron, Mink, Muskrat	X	
Vanadium	7E+01	Mink	Muskrat (6)	X	
Zinc	2E+03	Mink	Muskrat (10)	X	
Pesticides/PCBs/Dioxins/Furans					
Aroclor 1254/1260	3E+02	Sandpiper	Muskrat, Heron	X	
Non-, Mono-ortho PCBs				X	C
PCDDs/PCDFs				X	D

Notes:
(1) Table adopted from revised Problem Formulation Document (Brown and Caldwell, 2006).
(2) Constituents with HQs greater than 1 are listed. Where the maximum HQ was for mink, the next highest HQ is also listed with the associated receptor.
(3) HQs are reported to 1 significant figure.
(4) Rationale (other than HQ > 1) for inclusion/exclusion as COPEC:
A. Common earth elements are eliminated; the screening-level risks are an artifact of assuming a 1:1 uptake into dietary sources.
B. Retained for aquatic environment at USEPA request.
C. Based on a review of Phase II Remedial Investigation tissue data, dioxin-like PCB congeners are retained for further analysis.
D. PCDDs and PCDFs were previously not considered site-related; however, additional detailed review as part of the RI Report now suggest that PCDFs are potentially site-related. As a conservative measure, both PCDDs and PCDFs were evaluated as aquatic COPECs in the BERA.

Definitions:
COPEC = Constituent of potential ecological concern
HQ = Hazard quotient
PCB = Polychlorinated biphenyl
PCDD = Polychlorinated dibenzodioxin
PCDF = Polychlorinated dibenzofuran

Table 2
Final Baseline Ecological Risk Assessment
Chemicals of Potential Ecological Concern for the Upland Area
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland COPECs [1]					
Constituents [2]	Highest HQ [3]	Species with Highest HQ	Other Species with HQs > 1	Retained as COPEC	Rationale [4]
Elements					
Aluminum	3E+03	Shrew	Mink		A
Antimony	2E+01	Shrew		X	
Arsenic	9E+01	Shrew	Goose, Mink	X	
Barium	2E+01	Shrew		X	
Beryllium	2E+00	Shrew		X	
Cadmium	4E+01	Shrew		X	
Chromium	1E+01	Shrew		X	
Cobalt	2E+00	Shrew		X	
Copper	6E+00	Shrew			B
Iron	2E+03	Shrew	Mink		A
Lead	1E+02	Shrew		X	
Mercury	1E+02	Shrew	Goose, Hawk, Mink	X	
Selenium	7E+00	Shrew		X	
Thallium	7E+01	Shrew			C
Vanadium	8E+00	Shrew		X	
Semivolatiles					
Benzo(a)pyrene	2E+00	Shrew			D
Hexachlorobenzene	4E+02	Shrew	Mink	X	
Pesticides/PCBs/Dioxins/Furans					
alpha-chlordane	2E+01	Shrew		X	
Aroclor 1254/1260	1E+02	Shrew	Hawk, Mink	X	
1,2,3,7,8-PCDF	2E+00	Shrew			D
Volatiles					
Trichloroethylene	3E+00	Shrew		X	

Notes:
(1) Table adopted from revised Problem Formulation Document (Brown and Caldwell, 2006).
(2) Analytes with HQs greater than 1 are listed.
(3) HQs are reported to 1 significant figure.
(4) Rationale (other than HQ > 1) for inclusion/exclusion as COPEC:
A. Common earth elements are eliminated; the screening-level risks are an artifact of assuming a 1:1 uptake into dietary sources.
B. Mean concentration below New Jersey cleanup criterion; based upon the most sensitive endpoint.
C. Detected only once out of 139 samples.
D. Ubiquitous anthropogenic compound; maximum HQ of low magnitude.

Definitions:
COPEC = Constituent of potential ecological concern
HQ = Hazard quotient
PCB = Polychlorinated biphenyl
PCDF = Polychlorinated dibenzofuran

Table 3
Final Baseline Ecological Risk Assessment
Summary of BERA Assessment and Measurement Endpoints
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Exposure Area	BERA Assessment Endpoints	Model Receptor Species/ Population	Measurement Endpoints	Risk Criteria
South Branch Creek	Protection of benthic invertebrates from adverse ecological effects as a result of exposure to COPECs in sediments in South Branch Creek	Benthic macroinvertebrates	Direct exposure to South Branch Creek sediment and aquatic toxicity Testing	Invertebrate toxicity values
	Protection of estuarine fish from adverse ecological effects as a result of exposure to COPECs in sediment and surface water in South Branch Creek	Estuarine fish	Fish tissue concentrations	Fish Tissue toxicity reference value (TRV)
	Protection of omnivorous mammals from adverse ecological effects as a result of exposure to COPECs in South Branch Creek via direct contact with sediment and surface water and via ingestion of contaminated prey items	Raccoon (*Procyon lotor)*	Food-chain modeling of exposure, uptake, and effects	Mammalian Dietary Reference Dose
	Protection of piscivorous mammals from adverse ecological effects as a result of exposure to COPECs in South Branch Creek via direct contact with sediment and surface water and via ingestion of contaminated prey items	Mink (*Mustela vison*)	Food-chain modeling of exposure, uptake, and effects	Mammalian Dietary Reference Dose
	Protection of sediment-probing birds from adverse ecological effects as a result of exposure to COPECs in South Branch Creek via direct contact with sediment and surface water and via ingestion of contaminated prey items	Spotted Sandpiper (*Actitis macularia*)	Food-chain modeling of exposure, uptake, and effects	Avian Dietary Reference Dose
	Protection of piscivorous birds from adverse ecological effects as a result of exposure to COPECs in South Branch Creek via direct contact with sediment and surface water and via ingestion of contaminated prey items	Great Blue Heron (*Ardea herodias)*	Food-chain modeling of exposure, uptake, and effects	Avian Dietary Reference Dose
Upland (Terrestrial) Area	Protection of invertivorous mammals from adverse ecological effects as a result of direct exposure to contaminated soil in the upland portions of the Site via direct contact and ingestion of contaminated prey items	Short-tailed Shrew (*Blarina brevicauda)*	Food-chain modeling of exposure, uptake, and effects	Mammalian Dietary Reference Dose
	Protection of carnivorous mammals from adverse ecological effects as a result of direct exposure to contaminated soil in the upland portions of the Site via direct contact and ingestion of contaminated prey items	Red Fox (*Vulpes vulpes*)	Food-chain modeling of exposure, uptake, and effects	Mammalian Dietary Reference Dose
	Protection of invertivorous birds from adverse ecological effects as a result of direct exposure to contaminated soil in the upland portions of the Site via direct contact and ingestion of contaminated prey items	American Woodcock (*Scolopax minor*)	Food-chain modeling of exposure, uptake, and effects	Avian Dietary Reference Dose
	Protection of carnivorous birds from adverse ecological effects as a result of direct exposure to contaminated soil in the upland portions of the Site via direct contact and ingestion of contaminated prey items	Red-tailed Hawk (*Buteo jamaicensis*)	Food-chain modeling of exposure, uptake, and effects	Avian Dietary Reference Dose

Table 4
Final Baseline Ecological Risk Assessment
Summary Statistics for South Branch Creek Sediment Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	South Branch Creek COPECs	Units	Minimum (1)	Minimum Location	Average (2)	95% UCL (3)	95% UCL Statistic	Maximum (1)	Maximum Location	Frequency of Detection	MDL Range	Range of Background (4)	RME EPC (5)	RME EPC Basis (5)	CT EPC (6)
Metal	Arsenic	mg/kg dw	1.5	EC-5	257	392	H-UCL	5,460 J	LM-A-1	70 / 70	1.1 - 13	22.4 - 46.6	392	95% UCL	257
Metal	Barium	mg/kg dw	72.2	EC-6	5,757	7,099	Approximate Gamma	18,700	LM-B-3	70 / 70	17 - 270	99.4 - 524	7,099	95% UCL	5,757
Metal	Chromium	mg/kg dw	6.5	BSL-9	122	140	H-UCL	2,690	SED-A-2	70 / 70	0.86 - 11	66.4 - 281	140	95% UCL	122
Metal	Chromium, Hexavalent	mg/kg dw	1.9	LM-B-4	2.6	3.9	KM (Percentile Bootstrap)	7.5	SED-A-3	11 / 30	1.3 - 6.4	non-detect	3.9	95% UCL	2.6
Metal	Copper	mg/kg dw	10.3	BSL-9	213	315	H-UCL	1,100	SED-A-2	70 / 70	2.2 - 16	91.8 - 628	315	95% UCL	213
Metal	Iron	mg/kg dw	5,650 J	BSL-9	33,429	37,952	H-UCL	247,000	SED-A-1	70 / 70	8.6 - 130	32,500 - 42,600	37,952	95% UCL	33,429
Metal	Lead	mg/kg dw	9.2	BSL-3	419	532	Approximate Gamma	3,950	SED-A-2	70 / 70	1.1 - 13	116 - 403	532	95% UCL	419
Metal	Manganese	mg/kg dw	38.7	BSL-9	249	293	H-UCL	1,300	SED-A-1	70 / 70	1.3 - 9.6	304 - 489	293	95% UCL	249
Metal	Mercury	mg/kg dw	0.38	EC-5	322	625	Chebyshev (Mean, Sd)	3,050	LM-C-4	74 / 74	0.034 - 340	1.1 - 14.7	625	95% UCL	322
Metal	Methyl Mercury	mg/kg dw	0.0008	LM-B-1	0.032	0.041	Approximate Gamma	0.106	SED-A-1	42 / 42	0.000124 - 0.004	0.0006 - 0.0101	0.041	95% UCL	0.032
Metal	Vanadium	mg/kg dw	10.6	LM-C-4	42	49	Approximate Gamma	129	SED-A-1	70 / 70	4.3 - 32	38.8 - 65.2	49	95% UCL	42
Metal	Zinc	mg/kg dw	27.3	BSL-3	1,223	1,572	Approximate Gamma	8,020	BSL-8	70 / 70	1.7 - 22	215 - 645	1,572	95% UCL	1,223
PCB	Aroclor 1254/1260 (7,10)	mg/kg dw	0.014	SED-B-2	0.18	0.42	Chebyshev (Mean, Sd)	2.7	SED-8	22 / 70	0.0087 - 1.3	0.443 - 0.443	0.42	95% UCL	0.18
PCB	Ortho-PCBs Mammalian TEC (8)	--	--	--	--	--	--	--	--	--	--	--	--		--
PCB	Ortho-PCBs Avian TEC (8)	--	--	--	--	--	--	--	--	--	--	--	--		--
Dioxin	2,3,7,8-TCDD Benthic Dioxin TEC (9)	mg/kg dw	8.7E-07	BSL-1	1.2E-05	3.2E-05	Chebyshev (Mean, Sd)	8.6E-05	LM-E-3	18 / 18	n/a	9.6E-07 - 1.9E-05	3.2E-05	95% UCL	1.2E-05
Dioxin	2,3,7,8-TCDD Mammalian Dioxin TEC (9)	mg/kg dw	1.1E-06	BSL-1	1.3E-05	3.6E-05	Chebyshev (Mean, Sd)	9.5E-05	LM-E-3	18 / 18	n/a	1.2E-06 - 2.1E-05	3.6E-05	95% UCL	1.3E-05
Dioxin	2,3,7,8-TCDD Avian Dioxin TEC (9)	mg/kg dw	8.5E-07	BSL-1	1.1E-05	3.0E-05	Chebyshev (Mean, Sd)	8.1E-05	LM-E-3	18 / 18	n/a	8.8E-07 - 1.8E-05	3.0E-05	95% UCL	1.1E-05
Furan	2,3,7,8-TCDD Benthic Furan TEC (9)	mg/kg dw	2.8E-06	EC-7	8.3E-05	1.4E-04	Approximate Gamma	2.6E-04	LM-C-2	18 / 18	n/a	5.6E-07 - 9.0E-06	1.4E-04	95% UCL	8.3E-05
Furan	2,3,7,8-TCDD Mammalian Furan TEC (9)	mg/kg dw	2.2E-06	EC-7	6.6E-05	1.1E-04	Approximate Gamma	2.0E-04	LM-C-2	18 / 18	n/a	5.8E-07 - 7.5E-06	1.1E-04	95% UCL	6.6E-05
Furan	2,3,7,8-TCDD Avian Furan TEC (9)	mg/kg dw	6.4E-06	EC-7	2.2E-04	3.7E-04	Approximate Gamma	5.9E-04	SED-C-3	18 / 18	n/a	3.3E-06 - 2.2E-05	3.7E-04	95% UCL	2.2E-04

Notes:
(1) Minimum/maximum detected concentration. "J" indicates an estimated value.
(2) Arithmetic mean calculated using one-half the method detection limit (MDL) for non-detect results.
(3) 95 percent upper confidence limit on the mean (95% UCL) calculated using USEPA's ProUCL 4.0 Statistical Software.
(4) Background values were obtained from the reference stream known as Old Place Creek located in Staten Island, New York, on the eastern side of the Arthur Kill.
(5) The reasonable maximum exposure (RME) exposure point concentration (EPC) is the 95% UCL or, if the 95% UCL exceeds the maximum or sufficient data is not available, the maximum detected concentration.
(6) The central tendency (CT) EPC is the arithmetic mean calculated using one-half the MDL for non-detect results.
(7) Sum of Aroclors 1254 and 1260 using one-half the MDL for non-detect results. No other Aroclors were detected in sediment. Note the detection frequency presented in the table represents the number of samples with at least one Aroclor detected; the MDL range is based on individual Aroclors (i.e., not summations). See Attachment A for calculation details.
(8) Sediment samples were analyzed for Aroclors rather than individual PCB congeners.
(9) Sediment samples were analyzed for dioxin (PCDD) and furan (PCDF) congeners. Class-specific WHO 1998 toxic equivalency factors (TEFs) were utilized to calculate a 2,3,7,8-TCDD toxic equivalency concentration (TEC) for dioxins and furans. Note fish TEFs were used as a surrogate for calculating benthic TECs. See Attachment A for calculation details.
(10) Background value is for Aroclor 1248; no other Aroclors were detected in Old Place Creek sediment.

Definitions:
COPEC = Constituent of potential ecological concern
UCL = Upper confidence limit on the mean
MDL = Method detection limit
RME = Reasonable maximum exposure
EPC = Exposure point concentration
CT = Central tendency
mg/kg dw = milligram per kilogram dry weight
PCB = Polychlorinated biphenyl
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
n/a = not applicable
"--" = Data not available

Table 5
Final Baseline Ecological Risk Assessment
Summary Statistics for South Branch Creek Fiddler Crab Tissue Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	South Branch Creek COPECs	Units	Minimum (1)	Minimum Location	Average (2)	95% UCL (3)	UCL Statistic	Maximum (1)	Maximum Location	Frequency of Detection	MDL Range	Range of Background (4)	RME EPC (5)	RME EPC Basis (5)	CT EPC (6)
Metal	Arsenic	mg/kg dw	7.79	FC-C-1	15	35	Chebyshev (Mean, Sd)	54.2	FC-A-1	10 / 10	0.05 - 0.05	7.86 - 12.5	35	95% UCL	15
Metal	Barium	mg/kg dw	119	FC-E-2	1,053	2,179	Approximate Gamma	3,340	FC-C-1	10 / 10	0.19 - 0.2	49.4 - 62.9	2,179	95% UCL	1,053
Metal	Chromium	mg/kg dw	4.6	FC-A-1	18	24	Student's-t	37.2	FC-C-1	10 / 10	0.4 - 0.4	6.2 - 24.7	24	95% UCL	18
Metal	Chromium, Hexavalent (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Metal	Copper	mg/kg dw	119	FC-A-2	140	163	Modified-t	242	FC-C-1	10 / 10	0.4 - 0.4	123 - 177	163	95% UCL	140
Metal	Iron	mg/kg dw	837	FC-E-1	1,403	1,650	Student's-t	2,210	FC-A-1	10 / 10	0.9 - 0.9	1,630 - 4,810	1,650	95% UCL	1,403
Metal	Lead	mg/kg dw	4.96	FC-E-1	13	20	Approximate Gamma	35.6	FC-B-1	10 / 10	0.003 - 0.003	6.41 - 12.7	20	95% UCL	13
Metal	Manganese	mg/kg dw	22.4	FC-A-1	41	50	Student's-t	76.8	FC-B-1	10 / 10	0.006 - 0.006	27.9 - 73.5	50	95% UCL	41
Metal	Mercury	mg/kg dw	0.345	FC-E-2	12	30	Approximate Gamma	70.2	FC-C-1	10 / 10	0.002 - 0.38	0.117 - 0.192	30	95% UCL	12
Metal	Methyl Mercury	mg/kg dw	0.19	FC-D-2	0.29	0.35	Approximate Gamma	0.54	FC-C-1	10 / 10	0.004 - 0.004	0.04 - 0.09	0.35	95% UCL	0.29
Metal	Vanadium	mg/kg dw	1.81	FC-E-1	2.5	2.8	Student's-t	3.58	FC-B-1	10 / 10	0.02 - 0.02	3.92 - 10.6	2.8	95% UCL	2.5
Metal	Zinc	mg/kg dw	77.5	FC-E-1	99	117	Modified-t	164	FC-B-1	10 / 10	0.2 - 0.2	63 - 87.2	117	95% UCL	99
PCB	Aroclors (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
PCB	Ortho-PCB Mammalian TEC (8,9)	mg/kg dw	9.7E-07	FC-C-2	2.3E-05	5.1E-05	Approximate Gamma	7.7E-05	FC-C-1	10 / 10	n/a	6.8E-07 - 2.2E-05	5.1E-05	95% UCL	2.3E-05
PCB	Ortho-PCB Avian TEC (8,9)	mg/kg dw	5.1E-05	FC-A-1	1.0E-04	1.5E-04	Approximate Gamma	2.4E-04	FC-C-1	10 / 10	n/a	2.2E-05 - 7.6E-05	1.5E-04	95% UCL	1.0E-04
Dioxin	2,3,7,8-TCDD Benthic Dioxin TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Dioxin	2,3,7,8-TCDD Mammalian Dioxin TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Dioxin	2,3,7,8-TCDD Avian Dioxin TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Furan	2,3,7,8-TCDD Benthic Furan TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Furan	2,3,7,8-TCDD Mammalian Furan TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Furan	2,3,7,8-TCDD Avian Furan TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--

Notes:
(1) Minimum/maximum detected concentration.
(2) Arithmetic mean calculated using one-half the method detection limit (MDL) for non-detect results.
(3) 95 percent upper confidence limit on the mean (95% UCL) calculated using USEPA's ProUCL 4.0 Statistical Software (see Attachment B).
(4) Background values were obtained from the reference stream known as Old Place Creek located in Staten Island, New York, on the eastern side of the Arthur Kill.
(5) The reasonable maximum exposure (RME) exposure point concentration (EPC) is the 95% UCL or, if the 95% UCL exceeds the maximum or sufficient data is not available, the maximum detected concentration.
(6) The central tendency (CT) EPC is the arithmetic mean calculated using one-half the MDL for non-detect results.
(7) Tissue samples were not analyzed for hexavalent chromium, Aroclors, dioxins, or furans. EPCs for tissue are calculated in Table 11 using biota-sediment accumulation factors.
(8) Class-specific toxic equivalency factors (TEFs) were utilized to calculate a 2,3,7,8-TCDD toxic equivalency concentration (TEC) (see Attachment A).
(9) PCB congener data was reported in wet weight. Results were converted to dry weight using the sample-specific solids content (see Attachment A).

Definitions:
COPEC = Constituent of potential ecological concern
UCL = Upper confidence limit on the mean
MDL = Method detection limit
RME = Reasonable maximum exposure
EPC = Exposure point concentration
CT = Central tendency
mg/kg dw = milligrams per kilogram dry weight
PCB = Polychlorinated biphenyl
TEC = Toxic equivalency concentration
TCDD = Tetrachlorodibenzo-p-dioxin
n/a = not applicable
"--" = Data not available

Table 6
Final Baseline Ecological Risk Assessment
Summary Statistics for South Branch Creek Mummichog Tissue Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	South Branch Creek COPECs	Units	Minimum (1)	Minimum Location	Average (2)	95% UCL (3)	UCL Statistic	Maximum (1)	Maximum Location	Frequency of Detection	MDL Range	Range of Background (4)	RME EPC (5)	RME EPC Basis (5)	CT EPC (6)
Metal	Arsenic	mg/kg dw	2.84	MC-E	5.8	9.1	Student's-t	11.5	MC-A	5 / 5	0.05 - 0.05	2.25 - 2.63	9.1	95% UCL	5.8
Metal	Barium	mg/kg dw	16.9	MC-E	179	884	Approximate Gamma	607	MC-C	5 / 5	0.2 - 0.2	5.4 - 7.2	607	Maximum	179
Metal	Chromium	mg/kg dw	0.7	MC-E, MC-B	0.95	1.3	Student's-t	1.5	MC-C	5 / 5	0.4 - 0.4	0.9 - 2.4	1.3	95% UCL	0.95
Metal	Chromium, Hexavalent (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Metal	Copper	mg/kg dw	13.3	MC-C	15	18	Modified-t	20.5	MC-B	5 / 5	0.4 - 0.4	15.1 - 29.1	18	95% UCL	15
Metal	Iron	mg/kg dw	177	MC-E	255	328	Student's-t	363	MC-A	5 / 5	0.9 - 0.9	217 - 352	328	95% UCL	255
Metal	Lead	mg/kg dw	1.3	MC-E	2.2	3.1	Student's-t	3.5	MC-A	5 / 5	0.003 - 0.003	1.79 - 2.71	3.1	95% UCL	2.2
Metal	Manganese	mg/kg dw	20.1	MC-A	24	27	Student's-t	27.4	MC-D	5 / 5	0.006 - 0.006	20.1 - 25.5	27	95% UCL	24
Metal	Mercury	mg/kg dw	0.356	MC-E	2.6	5.4	Student's-t	7.68	MC-C	5 / 5	0.002 - 0.039	0.098 - 0.152	5.4	95% UCL	2.6
Metal	Methyl Mercury	mg/kg dw	0.38	MC-E	0.68	1.0	Student's-t	1.32	MC-A	5 / 5	0.004 - 0.004	0.08 - 0.13	1.0	95% UCL	0.68
Metal	Vanadium	mg/kg dw	0.7	MC-E	0.90	1.1	Student's-t	1.09	MC-A	5 / 5	0.02 - 0.02	1.39 - 1.66	1.1	95% UCL	0.90
Metal	Zinc	mg/kg dw	155	MC-A	167	176	Student's-t	176	MC-C	5 / 5	0.2 - 0.2	139 - 159	176	Maximum	167
PCB	Aroclors (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
PCB	Ortho-PCB Fish TEC (8,9)	mg/kg dw	1.5E-07	MC-C	5.7E-07	9.9E-07	Student's-t	1.3E-06	MC-E	5 / 5	n/a	3.1E-07 - 7.1E-07	9.9E-07	95% UCL	5.7E-07
PCB	Ortho-PCB Mammalian TEC (8,9)	mg/kg dw	9.5E-07	MC-C	1.7E-05	1.0E-04	Student's-t	6.3E-05	MC-E	5 / 5	n/a	2.0E-06 - 6.4E-05	6.3E-05	Maximum	1.7E-05
PCB	Ortho-PCB Avian TEC (8,9)	mg/kg dw	1.1E-05	MC-C	6.2E-05	2.3E-04	--	2.0E-04	MC-E	5 / 5	n/a	2.6E-06 - 6.6E-05	2.0E-04	Maximum	6.2E-05
Dioxin	2,3,7,8-TCDD Benthic Dioxin TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Dioxin	2,3,7,8-TCDD Mammalian Dioxin TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Dioxin	2,3,7,8-TCDD Avian Dioxin TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Furan	2,3,7,8-TCDD Benthic Furan TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Furan	2,3,7,8-TCDD Mammalian Furan TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--
Furan	2,3,7,8-TCDD Avian Furan TEC (7)	--	--	--	--	--	--	--	--	--	--	--	--		--

Notes:
(1) Minimum/maximum detected concentration.
(2) Arithmetic mean calculated using one-half the method detection limit (MDL) for non-detect results.
(3) 95 percent upper confidence limit on the mean (95% UCL) calculated using USEPA's ProUCL 4.0 Statistical Software (see Attachment B).
(4) Background values were obtained from the reference stream known as Old Place Creek located in Staten Island, New York, on the eastern side of the Arthur Kill.
(5) The reasonable maximum exposure (RME) exposure point concentration (EPC) is the 95% UCL or, if the 95% UCL exceeds the maximum or sufficient data is not available, the maximum detected concentration.
(6) The central tendency (CT) EPC is the arithmetic mean calculated using one-half the MDL for non-detect results.
(7) Tissue samples were not analyzed for hexavalent chromium, Aroclors, dioxins, or furans. EPCs for tissue are calculated in Table 11 using biota-sediment accumulation factors.
(8) Class-specific toxic equivalency factors (TEFs) were utilized to calculate a 2,3,7,8-TCDD toxic equivalency concentration (TEC) (see Attachment A).
(9) PCB congener data was reported in wet weight. Results were converted to dry weight using the sample-specific solids content (see Attachment A).

Definitions:
COPEC = Constituent of potential ecological concern
UCL = Upper confidence limit on the mean
MDL = Method detection limit
RME = Reasonable maximum exposure
EPC = Exposure point concentration
CT = Central tendency
mg/kg dw = milligrams per kilogram dry weight
PCB = Polychlorinated biphenyl
TEC = Toxic equivalency concentration
TCDD = Tetrachlorodibenzo-p-dioxin
n/a = not applicable
"--" = Data not available

Table 7
Final Baseline Ecological Risk Assessment
Summary Statistics for South Branch Creek Surface Water Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	South Branch Creek COPECs	Units	Minimum (1)	Minimum Location	Average (2)	95% UCL (3)	UCL Statistic	Maximum (1)	Maximum Location	Frequency of Detection	MDL Range	Range of Background (4)	RME EPC (5)	RME EPC Basis (5)	CT EPC (6)
Metal	Arsenic	µg/L	3.2 J	SW-E	41	103	KM (t)	150 J	SW-A	4 / 5	2.0 - 2.0	2.4 - 3.6	103	95% UCL	41
Metal	Barium	µg/L	200	SW-D	324	511	KM (t)	593	SW-B	4 / 5	200 - 200	non-detect	511	95% UCL	324
Metal	Chromium	µg/L	13.1	SW-A	6.6	--	Insufficient detects	13.1	SW-A	1 / 5	10 - 10	non-detect	13	Maximum	6.6
Metal	Chromium, Hexavalent	µg/L	non-detect	n/a	non-detect	non-detect	non-detect	non-detect	n/a	0 / 5	50 - 50	non-detect	non-detect		non-detect
Metal	Copper	µg/L	non-detect	n/a	non-detect	non-detect	non-detect	non-detect	n/a	0 / 5	25 - 25	non-detect	non-detect		non-detect
Metal	Iron	µg/L	105	SW-D	1,277	2,929	KM (t)	3,920	SW-A	4 / 5	100 - 100	non-detect	2,929	95% UCL	1,277
Metal	Lead	µg/L	18	SW-B	8.5	20	KM (t)	20	SW-A	2 / 5	3.0 - 3.0	non-detect	20	95% UCL	8.5
Metal	Manganese	µg/L	51.6	SW-E	113	183	Student's-t	230	SW-A	5 / 5	15 - 15	54 - 55.2	183	95% UCL	113
Metal	Mercury	µg/L	1.3	SW-E	4.3	8.23	Student's-t	10.9 J	SW-B	5 / 5	0.2 - 0.8	non-detect	8.2	95% UCL	4.3
Metal	Methyl Mercury	µg/L	0.00066	SW-E	0.0055	0.0287	Approximate gamma	0.0195	SW-A	5 / 5	1.9E-05 - 1.9E-05	5.4E-05 - 9.1E-05	0.020	Maximum	0.0055
Metal	Vanadium	µg/L	non-detect	n/a	non-detect	non-detect	non-detect	non-detect	n/a	0 / 5	50 - 50	non-detect	non-detect		non-detect
Metal	Zinc	µg/L	31.7	SW-C	36	89	KM (percentile bootstrap)	89	SW-B	3 / 5	20 - 20	non-detect	89	95% UCL	36
PCB	Aroclor 1254/1260 (7)	µg/L	non-detect	n/a	non-detect	non-detect	non-detect	non-detect	n/a	0 / 5	0.11 - 0.14	non-detect	non-detect		non-detect
PCB	Ortho-PCBs Mammalian TEC	--	--	--	--	--	--	--	--	--	--	--	--		--
PCB	Ortho-PCBs Avian TEC	--	--	--	--	--	--	--	--	--	--	--	--		--
Dioxin	2,3,7,8-TCDD Mammalian Dioxin TEC (8)	µg/L	2.4E-06	SW-C	2.4E-06	--	Insufficient detects	2.4E-06	SW-C	1 / 1	n/a	2.5E-06 - 3.1E-06	2.4E-06	Maximum	2.40E-06
Dioxin	2,3,7,8-TCDD Avian Dioxin TEC (8)	µg/L	2.2E-06	SW-C	2.2E-06	--	Insufficient detects	2.2E-06	SW-C	1 / 1	n/a	2.2E-06 - 2.9E-06	2.2E-06	Maximum	2.18E-06
Furan	2,3,7,8-TCDD Mammalian Furan TEC (8)	µg/L	1.6E-06	SW-C	1.6E-06	--	Insufficient detects	1.6E-06	SW-C	1 / 1	n/a	9.0E-07 - 1.4E-06	1.6E-06	Maximum	1.57E-06
Furan	2,3,7,8-TCDD Avian Furan TEC (8)	µg/L	5.2E-06	SW-C	5.2E-06	--	Insufficient detects	5.2E-06	SW-C	1 / 1	n/a	7.0E-07 - 1.1E-06	5.2E-06	Maximum	5.20E-06

Notes:
(1) Minimum/maximum detected concentration. "J" indicates an estimated value.
(2) Arithmetic mean calculated using one-half the method detection limit (MDL) for non-detect results.
(3) 95 percent upper confidence limit on the mean (95% UCL) calculated using USEPA's ProUCL 4.0 Statistical Software (see Attachment B).
(4) Background values were obtained from the reference stream known as Old Place Creek located in Staten Island, New York, on the eastern side of the Arthur Kill.
(5) The reasonable maximum exposure (RME) exposure point concentration (EPC) is the 95% UCL or, if the 95% UCL exceeds the maximum or sufficient data is not available, the maximum detected concentration.
(6) The central tendency (CT) EPC is the arithmetic mean calculated using one-half the MDL for non-detect results.
(7) Surface water samples were analyzed for Aroclors rather than individual PCB congeners. No Aroclors were detected in surface water. The MDL range is based on Aroclor 1254 and Aroclor 1260 (i.e., not summations).
(8) Surface water samples were analyzed for dioxin (PCDD) and furan (PCDF) congeners. WHO 1998 toxic equivalency factors (TEFs) were utilized to calculate a 2,3,7,8-TCDD toxic equivalency concentration (TEC) (see Attachment A).

Definitions:
COPEC = Constituent of potential ecological concern
UCL = Upper confidence limit on the mean
MDL = Method detection limit
RME = Reasonable maximum exposure
EPC = Exposure point concentration
CT = Central tendency
µg/L = micrograms per liter
PCB = Polychlorinated biphenyl
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
n/a = not applicable
"--" = Data not available/calculated

Table 8
Final Baseline Ecological Risk Assessment
Summary Statistics for Upland Area Soil Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	Upland Area COPECs	Units	Minimum (1)	Minimum Location	Average (2)	95% UCL (3)	UCL Statistic	Maximum (1)	Maximum Location	Frequency of Detection	MDL Range	RME EPC (4)	RME EPC Basis (4)	CT EPC (5)
Metal	Antimony	mg/kg dw	1.2	HF-B2	5.3	8.7	KM (BCA)	202	LHP-105	36 / 194	1.0 - 55	8.7	95% UCL	5.3
Metal	Arsenic	mg/kg dw	1.1	TLS-10	18	23	KM (BCA)	335	LHP-105	190 / 195	1.0 - 4.6	23	95% UCL	18
Metal	Barium	mg/kg dw	41.1 J	LHP-112	1,373	2,026	KM (Chebyshev)	10,500	LP-5	188 / 189	20 - 110	2,026	95% UCL	1,373
Metal	Beryllium	mg/kg dw	0.56	230-B9, ADS-12	2.0	2.6	KM (BCA)	27.3 J	LHP-127	97 / 195	0.50 - 13	2.6	95% UCL	2.0
Metal	Cadmium	mg/kg dw	0.58	TLS-9	3.1	5.9	KM (Chebyshev)	87.5 J	DC-SED3	137 / 195	0.50 - 14	5.9	95% UCL	3.1
Metal	Chromium	mg/kg dw	4.7	LHP-115	50	65	Chebyshev (Mean, Sd)	344 J	DC-SED3	195 / 195	1.0 - 4.6	65	95% UCL	50
Metal	Chromium, Hexavalent	mg/kg dw	1.3	LHP-106	1.5	3.4	KM (Percentile Bootstrap)	7.3	LHP-108	7 / 20	1.0 - 1.8	3.4	95% UCL	1.5
Metal	Cobalt	mg/kg dw	5.6	LB-101	42	60	KM (BCA)	961	LHP-128	182 / 195	5.0 - 140	60	95% UCL	42
Metal	Lead	mg/kg dw	3.2	LHP-115	558	1,182	Chebyshev (Mean, Sd)	15,450	LHP-128	195 / 195	1.0 - 55	1,182	95% UCL	558
Metal	Mercury	mg/kg dw	0.075 J	LB-101	460	800	KM (Chebyshev)	7,870	SS-08-10	196 / 197	0.031 - 360	800	95% UCL	460
Metal	Methyl Mercury	mg/kg dw	0.000031	HB-102A	0.032	0.22	Adjusted gamma	0.125	230-B101	9 / 9	1.5E-05 - 1.6E-05	0.13	Maximum	0.032
Metal	Selenium	mg/kg dw	1	PCA-6	1.5	1.7	KM (% Bootstrap)	8.7	ADS-11	54 / 195	1.0 - 55	1.7	95% UCL	1.5
Metal	Vanadium	mg/kg dw	10	ST-3	49	51	KM (BCA)	249	TLS-6	193 / 195	5.0 - 140	51	95% UCL	49
PEST	alpha-Chlordane	mg/kg dw	0.0013	PCA-1	0.0051	0.0036	KM (Percentile Bootstrap)	0.0232 J	WWT-3	10 / 195	0.00037 - 0.39	0.0036	95% UCL	0.0051
SVOC	Hexachlorobenzene	mg/kg dw	0.0238 J	TLS-10	12	44	KM (Chebyshev)	1,440	231-B13	112 / 195	0.020 - 39	44	95% UCL	12
PCB	Aroclor 1254/1260 (6)	mg/kg dw	0.0115	LHP-115	1.8	3.0	Chebyshev (Mean, Sd)	28.8	230-B4	145 / 195	0.0069 - 2.0	3.0	95% UCL	1.8
VOC	Trichloroethylene	mg/kg dw	0.00095 J	DC-SS3	0.86	3.8	KM (Chebyshev)	124	12K-B2	16 / 194	0.0034 - 2.9	3.8	95% UCL	0.86

Notes:
(1) Minimum/maximum detected concentration. "J" indicates an estimated value.
(2) Arithmetic mean calculated using one-half the method detection limit (MDL) for non-detect results.
(3) 95 percent upper confidence limit on the mean (95% UCL) calculated using USEPA's ProUCL 4.0 Statistical Software.
(4) The reasonable maximum exposure (RME) exposure point concentration (EPC) is the 95% UCL or, if the 95% UCL exceeds the maximum or sufficient data is not available, the maximum detected concentration.)
(5) The central tendency (CT) EPC is the arithmetic mean calculated using one-half the MDL for non-detect results.
(6) Sum of Aroclors 1254 and 1260 using one-half the MDL for non-detect results. No other Aroclors were detected in soil. Note the detection frequency presented in the table represents the number of samples with at least one Aroclor detected; the MDL range is based on Aroclor 1254 and Aroclor 1260 (i.e., not summations).

Definitions:
COPEC = Constituent of potential ecological concern
UCL = Upper confidence limit on the mean
MDL = Method detection limit
RME = Reasonable maximum exposure
EPC = Exposure point concentration
CT = Central tendency
mg/kg dw = milligrams per kilogram dry weight
SVOC = Semivolatile organic compound
PCB = Polychlorinated biphenyl
VOC = Volatile organic compound
n/a = not applicable

Table 9
Final Baseline Ecological Risk Assessment
Biota-Sediment Accumulation Factors for South Branch Creek COPECs
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPEC/Species	Average BSAF (1)	Site-specific BSAF (2)	Basis
Hexavalent Chromium			
Fiddler Crab	1.0	1.0	Default BSAF of 1 assumed (3)
Mummichog	1.0	1.0	Default BSAF of 1 assumed (3)
Aroclor 1254/1260			
Fiddler Crab	2.0	0.47	Lipid-normalized average blue crab value
Mummichog	2.1	0.31	Lipid-normalized average *Fundulidae sp.* value
PCDD/PCDF Congeners			
Fiddler Crab	0.13	0.032	Lipid-normalized average fiddler crab value
Mummichog	0.049	0.0071	Lipid-normalized average *Fundulidae sp*. Value

Notes:
(1) Average Biota-Sediment Accumulation Factor values obtained from the USEPA BSAF Database available online at:
http://www.epa.gov/med/Prods_Pubs/bsaf.htm The data used to derive the chemical/species-specific BSAF values are presented below.
(2) To develop a site-specific BSAF, the average database BSAF was adjusted by the lipid-normalized concentration in organisms divided by the organic carbon-normalized concentration in sediments. Where:
4.8% = Average organic carbon concentration
1.13% = Average lipid concentration in crabs
0.7% = Average lipid concentration in fish
(3) A default BSAF of 1 was used for constituents for which a BSAF could not be identified from the primary literature.

Constituent	Organism	Genus species	BSAF	Study Site
Total PCBs	blue crab	Callinectes sapidus	1.4	Calcasieu Estuary
Total PCBs	blue crab	Callinectes sapidus	0.032	Calcasieu Estuary
Total PCBs	blue crab	Callinectes sapidus	4.6	Calcasieu Estuary

Constituent	Organism	Genus species	BSAF	Study Site
Total PCBs	killifish	Fundulidae sp.	0.12	Muddy Cove
Total PCBs	killifish	Fundulidae sp.	0.15	Calcasieu Estuary
Total PCBs	killifish	Fundulidae sp.	0.36	Muddy Cove
Total PCBs	killifish	Fundulidae sp.	0.46	Calcasieu Estuary
Total PCBs	killifish	Fundulidae sp.	0.59	Calcasieu Estuary
Total PCBs	killifish	Fundulidae sp.	1.6	Calcasieu Estuary
Total PCBs	killifish	Fundulidae sp.	1.7	Muddy Cove
Total PCBs	killifish	Fundulidae sp.	3.3	Calcasieu Estuary
Total PCBs	killifish	Fundulidae sp.	0.063	Muddy Cove
Total PCBs	killifish	Fundulidae sp.	6.4	Muddy Cove
Total PCBs	mummichog	Fundulus heteroclitus	8.9	Naval Educ & Trn Ctr

Constituent	Organism	Genus species	BSAF	Study Site
1,2,3,4,6,7,8-HpCDD	fiddler crab	Uca sp.	0.033	Calcasieu Estuary
1,2,3,4,6,7,8-HpCDD	fiddler crab	Uca sp.	0.064	Calcasieu Estuary
1,2,3,4,7,8-HxCDD	fiddler crab	Uca sp.	0.035	Calcasieu Estuary
1,2,3,6,7,8-HxCDD	fiddler crab	Uca sp.	0.070	Calcasieu Estuary
1,2,3,6,7,8-HxCDD	fiddler crab	Uca sp.	0.14	Calcasieu Estuary
1,2,3,7,8,9-HxCDD	fiddler crab	Uca sp.	0.11	Calcasieu Estuary
1,2,3,7,8-PeCDD	fiddler crab	Uca sp.	0.094	Calcasieu Estuary
2,3,7,8-TCDD	fiddler crab	Uca sp.	0.028	Calcasieu Estuary
2,3,7,8-TCDD	fiddler crab	Uca sp.	0.066	Calcasieu Estuary
OCDD	fiddler crab	Uca sp.	0.035	Calcasieu Estuary
OCDD	fiddler crab	Uca sp.	0.073	Calcasieu Estuary
1,2,3,4,6,7,8-HpCDF	fiddler crab	Uca sp.	0.0044	Calcasieu Estuary
1,2,3,4,6,7,8-HpCDF	fiddler crab	Uca sp.	0.19	Calcasieu Estuary
1,2,3,4,7,8,9-HpCDF	fiddler crab	Uca sp.	0.0030	Calcasieu Estuary
1,2,3,4,7,8,9-HpCDF	fiddler crab	Uca sp.	0.44	Calcasieu Estuary
1,2,3,4,7,8-HxCDF	fiddler crab	Uca sp.	0.012	Calcasieu Estuary
1,2,3,4,7,8-HxCDF	fiddler crab	Uca sp.	1.0	Calcasieu Estuary
1,2,3,6,7,8-HxCDF	fiddler crab	Uca sp.	0.013	Calcasieu Estuary
1,2,3,6,7,8-HxCDF	fiddler crab	Uca sp.	0.71	Calcasieu Estuary
1,2,3,7,8,9-HxCDF	fiddler crab	Uca sp.	0.010	Calcasieu Estuary
1,2,3,7,8,9-HxCDF	fiddler crab	Uca sp.	0.15	Calcasieu Estuary
1,2,3,7,8-PeCDF	fiddler crab	Uca sp.	0.024	Calcasieu Estuary
1,2,3,7,8-PeCDF	fiddler crab	Uca sp.	0.19	Calcasieu Estuary
2,3,4,6,7,8-HxCDF	fiddler crab	Uca sp.	0.012	Calcasieu Estuary
2,3,4,6,7,8-HxCDF	fiddler crab	Uca sp.	0.11	Calcasieu Estuary
2,3,4,7,8-PeCDF	fiddler crab	Uca sp.	0.020	Calcasieu Estuary
2,3,4,7,8-PeCDF	fiddler crab	Uca sp.	0.056	Calcasieu Estuary
2,3,7,8-TCDF	fiddler crab	Uca sp.	0.057	Calcasieu Estuary
2,3,7,8-TCDF	fiddler crab	Uca sp.	0.14	Calcasieu Estuary

Constituent	Organism	Genus species	BSAF	Study Site
2,3,7,8-TCDD	killifish	Fundulidae sp.	0.12	Calcasieu Estuary
2,3,7,8-TCDD	killifish	Fundulidae sp.	0.013	Calcasieu Estuary
1,2,3,7,8-PeCDD	killifish	Fundulidae sp.	0.0036	Calcasieu Estuary
1,2,3,7,8-PeCDD	killifish	Fundulidae sp.	0.039	Calcasieu Estuary
1,2,3,6,7,8-HxCDD	killifish	Fundulidae sp.	0.0029	Calcasieu Estuary
OCDD	killifish	Fundulidae sp.	0.0072	Calcasieu Estuary
2,3,7,8-TCDF	killifish	Fundulidae sp.	0.048	Calcasieu Estuary
1,2,3,4,7,8-HxCDF	killifish	Fundulidae sp.	0.00070	Calcasieu Estuary
1,2,3,6,7,8-HxCDF	killifish	Fundulidae sp.	0.0045	Calcasieu Estuary
1,2,3,7,8-PeCDF	killifish	Fundulidae sp.	0.0027	Calcasieu Estuary
2,3,4,6,7,8-HxCDF	killifish	Fundulidae sp.	0.00050	Calcasieu Estuary
2,3,4,7,8-PeCDF	killifish	Fundulidae sp.	0.0045	Calcasieu Estuary
1,2,3,4,6,7,8-HpCDF	killifish	Fundulidae sp.	0.011	Calcasieu Estuary
1,2,3,4,7,8-HxCDF	killifish	Fundulidae sp.	0.015	Calcasieu Estuary
1,2,3,6,7,8-HxCDF	killifish	Fundulidae sp.	0.13	Calcasieu Estuary
1,2,3,7,8,9-HxCDF	killifish	Fundulidae sp.	0.0039	Calcasieu Estuary
1,2,3,7,8-PeCDF	killifish	Fundulidae sp.	0.035	Calcasieu Estuary
2,3,4,6,7,8-HxCDF	killifish	Fundulidae sp.	0.0090	Calcasieu Estuary
2,3,4,7,8-PeCDF	killifish	Fundulidae sp.	0.084	Calcasieu Estuary
2,3,7,8-TCDF	killifish	Fundulidae sp.	0.11	Calcasieu Estuary
OCDF	killifish	Fundulidae sp.	0.0043	Calcasieu Estuary
1,2,3,4,6,7,8-HpCDF	killifish	Fundulidae sp.	0.0024	Calcasieu Estuary
2,3,7,8-TCDF	killifish	Fundulidae sp.	0.017	Calcasieu Estuary
1,2,3,4,6,7,8-HpCDF	killifish	Fundulidae sp.	0.0046	Calcasieu Estuary
1,2,3,4,7,8-HxCDF	killifish	Fundulidae sp.	0.0084	Calcasieu Estuary
1,2,3,6,7,8-HxCDF	killifish	Fundulidae sp.	0.27	Calcasieu Estuary
1,2,3,7,8-PeCDF	killifish	Fundulidae sp.	0.064	Calcasieu Estuary
2,3,4,7,8-PeCDF	killifish	Fundulidae sp.	0.25	Calcasieu Estuary
2,3,7,8-TCDF	killifish	Fundulidae sp.	0.14	Calcasieu Estuary
2,3,7,8-TCDF	killifish	Fundulidae sp.	0.055	Calcasieu Estuary

Table 10
Final Baseline Ecological Risk Assessment
Biota-Soil Accumulation Factors for Upland Area COPECs
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland Area COPECs	Uptake Equations Soil-to-Earthworms		Uptake Equations Soil-to-Small Mammals	
Antimony	$C_{inv} = C_{so}$	(1)	$C_{sm} = 0.001 \times 50 \times C_d$	(1)
Arsenic	$\ln(C_{inv}) = 0.706 \times \ln(C_{so}) - 1.421$	(1)	$\ln(C_{sm}) = 0.8188 \times \ln(C_{so}) - 4.8471$	(1)
Barium	$C_{inv} = 0.091 \times C_{so}$	(1)	$C_{sm} = 0.00015 \times 50 \times C_d$	(1)
Beryllium	$C_{inv} = 0.045 \times C_{so}$	(1)	$C_{sm} = 0.001 \times 50 \times C_d$	(1)
Cadmium	$\ln(C_{inv}) = 0.795 \times \ln(C_{so}) + 2.114$	(1)	$\ln(C_{sm}) = 0.4723 \times \ln(C_{so}) - 1.2571$	(1)
Chromium	$C_{inv} = 0.306 \times C_{so}$	(1)	$\ln(C_{sm}) = 0.7338 \times \ln(C_{so}) - 1.4599$	(1)
Chromium, Hexavalent	$C_{inv} = 0.306 \times C_{so}$	(1)	$\ln(C_{sm}) = 0.7338 \times \ln(C_{so}) - 1.4599$	(1)
Cobalt	$C_{inv} = 0.122 \times C_{so}$	(1)	$\ln(C_{sm}) = 1.307 \times \ln(C_{so}) - 4.4669$	(1)
Lead	$\ln(C_{inv}) = 0.807 \times \ln(C_{so}) - 0.218$	(1)	$\ln(C_{sm}) = 0.4422 \times \ln(C_{so}) + 0.0761$	(1)
Mercury	$\ln(C_{inv}) = 0.269 \times \ln(C_{so}) - 0.255$	(2)	$C_{sm} = 0.0543 \times C_{so}$	(6)
Methyl mercury	$C_{inv} = C_{so}$	(3)	$C_{sm} = C_d$	(3)
Selenium	$\ln(C_{inv}) = 0.733 \times \ln(C_{so}) - 0.075$	(1)	$\ln(C_{sm}) = 0.3764 \times \ln(C_{so}) - 0.4158$	(1)
Vanadium	$C_{inv} = 0.32 \times C_{so}$	(4)	$C_{sm} = 0.0123 \times C_{so}$	(1)
alpha-Chlordane	$C_{inv} = C_{so}$	(3)	$C_{sm} = 1.2 \times C_d$	(1,7)
Hexachlorobenzene	$C_{inv} = 0.54 \times C_{so}$	(5)	$C_{sm} = 1.2 \times C_d$	(1,7)
Aroclor 1254/1260	$C_{inv} = C_{so}$	(3)	$C_{sm} = C_d$	(3)
Trichloroethylene	$C_{inv} = C_{so}$	(3)	$C_{sm} = 0$	(8)

Notes:
(1) USEPA. 2007. Guidance for Developing Ecological Soil Screening Levels. Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, Washington, D.C. OSWER Directive 92857-55. April. Attachment 4-1. http://www.epa.gov/ecotox/ecossl/pdf/ecossl_attachment_4-1.pdf
(2) Concentrations were calculated using a modified regression equation based on the Oak Ridge National Laboratory dataset, but including data from Rhett et al. (1988). Total mercury in earthworm tissue was assumed to be predominantly (90%) inorganic, based on data from Bull et al. (1977).
- Bull, K.R., Roberts, R.D., Inskip, and Goodman, G.T. 1977. Mercury concentrations in soil, grass, earthworms and small mammals near an industrial source. Environ. Pollut. 12:135-140.
- Rhett, R.G., Simmers, J.W., and Lee, C.R. 1988. Eisenia foetida used as a biomonitoring tool to predict the potential bioaccumulation of contaminants from contaminated dredged material. Pp 321-328, In Edwards and Neuhauser (eds.). Earthworms in Waste and Environmental Management. SPB Academic Publishing. The Hague.

(3) A default BAF of 1 was used for constituents for which a BAF could not be identified from the primary literature.
(4) Sample, B.E., Opresko, D.M., and Suter, G.W., 1996. Toxicological Benchmarks for Wildlife. ES/ER/TM-86/R3. Oak Ridge National Laboratory, Oak Ridge, TN.
(5) ATSDR Toxicological Profile, based on a terrestrial laboratory microcosm study from: Connell DW, Bowman M, Hawker DW. 1988. Bioconcentration of chlorinated hydrocarbons from sediment by oligochaetes. Ecotoxicol Environ Saf 16:293-302.
(6) Sample, B. E., J. J. Beauchamp, R. A. Efroymson, and G. W. Suter, II. 1998. Development and Validation of Bioaccumulation Models for Small Mammals. Oak Ridge National Laboratory, Oak Ridge TN. 89 pp. ES/ER/TM-219. tp://www.esd.ornl.gov/programs/ecorisk/documents/tm219.pdf Table 7/Table 9 media general UF for general estimates.
(7) Soil-to-small mammal BSAF is based on the uptake equation for dieldrin (USEPA, 2003).
(8) Volatile organic compounds (VOCs) and other chemicals with low logKow (<3.5) do not bioaccumulate (USEPA, 2000). The logKow for trichloroethylene is 2.47 (KowWin v.1.68); therefore, the BAF is

Definitions:
COPEC = Constituent of potential ecological concern
C_{so} = Concentration in soil (mg/kg dw)
C_{inv} = Concentration in invertebrate tissue (mg/kg dw)
C_{sm} = Concentration in small mammal tissue (mg/kg dw)
C_d = Concentration in diet (mg/kg dw, where small mammals are assumed to consume 100% invertebrates)
ln = natural log
mg/kg dw = milligram per kilogram dry weight

Table 11
Final Baseline Ecological Risk Assessment
Exposure Point Concentrations for South Branch Creek
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	Sediment [1]		Fiddler Crab [2]			Mummichog [2]			Surface Water [1]	
	EPC (mg/kg dw)		BSAF	EPC (mg/kg dw)		BSAF	EPC (mg/kg dw)		EPC (µg/L)	
	RME [3]	CT [4]		RME [3]	CT [4]		RME [3]	CT [4]	RME [3]	CT [4]
Arsenic	392	257	n/a	35	15	n/a	9.1	5.8	103	41
Barium	7,099	5,757	n/a	2,179	1,053	n/a	607	179	511	324
Chromium	140	122	n/a	24	18	n/a	1.3	0.95	13.1	7
Chromium, Hexavalent [2]	3.9	2.6	1.0	--	--	1.0	--	--	non-detect	non-detect
Copper	315	213	n/a	163	140	n/a	18	15	non-detect	non-detect
Iron	37,952	33,429	n/a	1,650	1,403	n/a	328	255	2,929	1,277
Lead	532	419	n/a	20	13	n/a	3.1	2.2	19.5	9
Manganese	293	249	n/a	50	41	n/a	27	24	183	113
Mercury	625	322	n/a	30	12	n/a	5.4	2.6	8.227	4.3
Methyl mercury	0.041	0.032	n/a	0.35	0.29	n/a	1.0	0.68	0.0195	0.005
Vanadium	49	42	n/a	2.8	2.5	n/a	1.1	0.90	non-detect	non-detect
Zinc	1,572	1,223	n/a	117	99	n/a	176	167	89	36
Aroclor 1254/1260 [2]	0.42	0.18	0.47	0.20	0.085	0.31	0.13	0.057	non-detect	non-detect
2,3,7,8-TCDD Benthic Dioxin TEC	3.2E-05	1.2E-05	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,3,7,8-TCDD Benthic Furan TEC	1.4E-04	8.3E-05	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,3,7,8-TCDD Avian Dioxin TEC [2]	3.0E-05	1.1E-05	0.032	9.6E-07	3.4E-07	0.0071	2.2E-07	7.7E-08	2.2E-06	2.2E-06
2,3,7,8-TCDD Avian Furan TEC [2]	3.7E-04	2.2E-04	0.032	1.2E-05	6.9E-06	0.0071	2.6E-06	1.6E-06	5.2E-06	5.2E-06
2,3,7,8-TCDD Mammalian Dioxin TEC [2]	3.6E-05	1.3E-05	0.032	1.1E-06	4.2E-07	0.0071	2.6E-07	9.4E-08	2.4E-06	2.4E-06
2,3,7,8-TCDD Mammalian Furan TEC [2]	1.1E-04	6.6E-05	0.032	3.5E-06	2.1E-06	0.0071	7.9E-07	4.7E-07	1.6E-06	1.6E-06
Ortho-PCB Avian TEC [5]	--	--	n/a	1.5E-04	1.0E-04	n/a	2.0E-04	6.2E-05	--	--
Ortho-PCB Mammalian TEC [5]	--	--	n/a	5.1E-05	2.3E-05	n/a	6.3E-05	1.7E-05	--	--

Notes:
(1) COPEC concentrations in sediment and surface water are measured concentrations.
(2) Concentrations of hexavalent chromium, Aroclor 1254/1260, dioxins, and furans in fiddler crab and mummichog tissue are modeled from sediment concentrations using lipid-normalized biota-sediment accumulation factors (BSAFs). All other COPEC concentrations in fiddler crab and mummichog tissue are measured concentrations.
(3) Reasonable maximum exposure (RME) exposure point concentration (EPC) calculated as the 95% UCL on the mean using USEPA ProUCL Statistical Software. If statistical analysis could not be conducted, the maximum concentration was used.
(4) Average concentrations are assumed to represent a central tendency (CT) exposure point concentration (EPC) for ecological receptors.
(5) Sediment and surface water were not analyzed for mono-ortho and non-ortho PCBs. This is considered a data gap; however, given that ecological exposure primarily occurs via food chain exposure and that measured concentrations of Aroclors in sediment likely captured a portion of the mono-ortho and non-ortho congeners, it is unlikely that this data gap will significantly affect the outcome of the risk assessment.

Definitions:
n/a = Not applicable
"--" = Value not available
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
RME = Reasonable maximum exposure
CT = Central tendency
mg/kg dw = milligram per kilogram dry weight
µg/L = microgram per liter

Table 12
Final Baseline Ecological Risk Assessment
Exposure Point Concentrations for the Upland Area
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland Area COPECs	Soil [1]		Invertebrate [2]			Small Mammal [2]		
	EPC_{SO} (mg/kg dw)		Uptake Equation	EPC_{INV} (mg/kg dw)		Uptake Equation	EPC_{SM} (mg/kg dw)	
	RME	CT		RME	CT		RME	CT
Antimony	8.7	5.3	$C_{inv} = C_{so}$	8.7	5.3	$C_{sm} = 0.001 \times 50 \times C_d$	0.43	0.26
Arsenic	23	18	$\ln(C_{inv}) = 0.706 \times \ln(C_{so}) - 1.421$	2.2	1.8	$\ln(C_{sm}) = 0.8188 \times \ln(C_{so}) - 4.8471$	0.10	0.082
Barium	2026	1,373	$C_{inv} = 0.091 \times C_{so}$	184	125	$C_{sm} = 0.00015 \times 50 \times C_d$	1.4	0.94
Beryllium	2.6	2.0	$C_{inv} = 0.045 \times C_{so}$	0.12	0.088	$C_{sm} = 0.001 \times 50 \times C_d$	0.0059	0.0044
Cadmium	5.9	3.1	$\ln(C_{inv}) = 0.795 \times \ln(C_{so}) + 2.114$	34	21	$\ln(C_{sm}) = 0.4723 \times \ln(C_{so}) - 1.2571$	0.66	0.49
Chromium	65	50	$C_{inv} = 0.306 \times C_{so}$	20	15	$\ln(C_{sm}) = 0.7338 \times \ln(C_{so}) - 1.4599$	5.0	4.1
Chromium, Hexavalent	3.4	1.5	$C_{inv} = 0.306 \times C_{so}$	1.0	0.47	$\ln(C_{sm}) = 0.7338 \times \ln(C_{so}) - 1.4599$	0.57	0.32
Cobalt	60	42	$C_{inv} = 0.122 \times C_{so}$	7.3	5.1	$\ln(C_{sm}) = 1.307 \times \ln(C_{so}) - 4.4669$	2.4	1.5
Lead	1182	558	$\ln(C_{inv}) = 0.807 \times \ln(C_{so}) - 0.218$	243	132	$\ln(C_{sm}) = 0.4422 \times \ln(C_{so}) + 0.0761$	25	18
Mercury	800	460	$\ln(C_{inv}) = 0.269 \times \ln(C_{so}) - 0.255$	4.7	4.0	$C_{sm} = 0.0543 \times C_{so}$	43	25
Methyl mercury	0.13	0.032	$C_{inv} = C_{so}$	0.13	0.032	$C_{sm} = C_d$	0.13	0.032
Selenium	1.7	1.5	$\ln(C_{inv}) = 0.733 \times \ln(C_{so}) - 0.075$	1.4	1.2	$\ln(C_{sm}) = 0.3764 \times \ln(C_{so}) - 0.4158$	0.81	0.76
Vanadium	51	49	$C_{inv} = 0.32 \times C_{so}$	16	16	$C_{sm} = 0.0123 \times C_{so}$	0.63	0.60
alpha-Chlordane	0.0036	0.0051	$C_{inv} = C_{so}$	0.0036	0.0051	$C_{sm} = 1.2 \times C_d$	0.0043	0.0062
Hexachlorobenzene	44	12	$C_{inv} = 0.54 \times C_{so}$	24	6.2	$C_{sm} = 1.2 \times C_d$	29	7.5
Aroclor 1254/1260	3.0	1.8	$C_{inv} = C_{so}$	3.0	1.8	$C_{sm} = C_d$	3.0	1.8
Trichloroethylene	3.8	0.86	$C_{inv} = C_{so}$	3.8	0.86	$C_{sm} = 0$	--	--

Notes:
(1) Soil exposure point concentrations (EPCs) are calculated from measured concentrations in soil. Reasonable maximum exposure (RME) EPCs are the 95% upper confidence limit on the mean or, if a 95% UCL could not be calculated, the maximum detected concentration. Central tendency (CT) EPCs are the arithmetic mean calculated using one-half the detection limit for non-detect results.
(2) Invertebrate and small mammal EPCs (i.e., tissue concentrations) are modeled from soil EPCs using the uptake equations presented in the table, where: C_{inv} = concentration in invertebrate tissue; C_{so} = concentration in soil, C_{sm} = concentration in small mammal tissue; C_d = concentration in diet (where small mammals are assumed to consume 100% invertebrates); ln = natural log.

Definitions:
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
SO = Soil
INV = Invertebrate
SM = Small mammal
RME = Reasonable maximum exposure
CT = Central tendency
mg/kg = milligram per kilogram
dw= dry weight
"--" = constituent not retained as a COPEC for a given media

Table 13
Final Baseline Ecological Risk Assessment
Sediment Benchmarks - Benthic Invertebrates
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Analyte	Units	ARCS NEC (1)	ARCS PEC (1)	ARCS TEC (1)	Consensus PEC (2)	Consensus TEC (2)	NOAA ERL (3)	NOAA ERM (3)	NOAA AET (3)	Washington MAEL (4)	Washington NEL (4)	Region 3 BTAG MAR (5)
Arsenic	mg/kg dw	92.9	57	12.1	33	9.79	8.2	70	35	93	57	7.24
Barium	mg/kg dw	-	-	-	-	-	-	-	48	-	-	-
Chromium	mg/kg dw	312	159	56	111	43.4	81	370	62	270	260	52.3
Chromium, Hexavalent	mg/kg dw	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg dw	54.8	77.7	28	149	31.6	34	270	390	390	390	3.1
Iron	mg/kg dw	-	-	-	-	-	-	-	22%	-	-	-
Lead	mg/kg dw	68.7	396	34.2	128	35.8	46.7	218	400	530	450	30.2
Manganese	mg/kg dw	819	1080	1670	-	-	-	-	260	-	-	-
Mercury (elemental)	mg/kg dw	-	-	-	1.06	0.18	0.15	0.71	0.41	0.59	0.41	-
Methyl Mercury	mg/kg dw	-	-	-	-	-	-	-	0.00001	-	-	-
Vanadium	mg/kg dw	-	-	-	-	-	-	-	57	-	-	-
Zinc	mg/kg dw	541	1530	159	459	121	150	410	410	960	410	124
Total PCBs	mg/kg dw	0.194	0.245	0.0316	0.676	0.0598	0.0227	0.18	0.13	0.65	0.12	0.04
2,3,7,8-TCDD	mg/kg dw	-	-	-	-	-	-	-	-	-	-	8.50E-07

Notes:

(1) ARCS: USEPA Assessment and Remediation of Contaminated Sediments Program.
NEC: Concentration above which statistically significant adverse biological effects always occur.
TEC: Concentrations above the TEC may result in adverse effects to these organisms; concentrations below the TEC are unlikely to result in adverse effects.
PEC: A concentration greater than the PEC is likely to result in adverse effects to these organisms.
ARCS Source: USEPA 1996. Calculation and evaluation of sediment effect concentrations for the amphipod Hyalella azteca and the midge Chironomus riparius. EPA 905/R96/008. Great Lakes National Program Office, Chicago, IL. (http://www.cerc.usgs.gov/clearinghouse/data/brdcerc0004.html) (http://www.cerc.usgs.gov/pubs/sedtox/sec-dev.html)

(2) Consensus Values
PEC: Contaminant concentrations above which harmful effects on sediment-dwelling organisms are expected to occur more often than not.
TEC: Contaminant concentrations below which harmful effects on sediment-dwelling organisms are not expected.
Consensus Source: MacDonald, D.D. , C.G. Ingersoll, and T.A. Berger. 2000. Development and evaluation of consensus-based sediment quality guidelines for freshwater ecosystems. Arch. Environ. Contam. Toxicol. 39: 20-31.

(3) NOAA: National Oceanographic and Atmospheric Administration
ERL: Effects range low values
ERM: Effects range median values
AET: Concentration observed in the highest non-toxic sample; above this value impacts would be expected
NOAA Source: http://response.restoration.noaa.gov/cpr/sediment/squirt/squirt.html

(4) Washington Sediment Quality Standards
NEL: (WAC 172-204-320): "No effects" level values - a concentration that does not result in acute or chronic adverse effects to biological resources and does not result in significant human health risk.
MAEL: Sediment Impact Zone Maximum Level and Sediment Cleanup Screening Level/Minimum Cleanup Level: "Minor adverse effects" level values. Minor adverse effect levels are concentrations that result in an acute or chronic adverse effect to biological resources relative to reference in no more than one appropriate biological test and do not result in significant human health risk.
Source: Washington Department of Ecology, Sediment Management Unit, Sediment Quality Chemical Criteria, updated 8/9/2001 – http://www.ecy.wa.gov/programs/tcp/smu/sed_chem.htm

(5) Region III Biological Technical Assistance Group (BTAG) Marine Screening Benchmarks. 2004. Available online at:
http://www.epa.gov/reg3hwmd/risk/eco/btag/sbv/marine/screenbench.htm

Table 14
Final Baseline Ecological Risk Assessment
Comparison of Sediment Concentrations to Benthic Invertebrate Benchmarks
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	Units	RME EPC (1)	CT EPC (2)	Range of Sediment Screening Criteria	Range of Background (3)
Arsenic	mg/kg dw	392	257	7.24 - 93	22.4 - 46.6
Barium	mg/kg dw	7,099	5,757	48 - 48	99.4 - 524
Chromium	mg/kg dw	140	122	43.4 - 370	66.4 - 281
Chromium, Hexavalent	mg/kg dw	3.9	2.6	n/a	non-detect
Copper	mg/kg dw	315	213	3.1 - 390	91.8 - 628
Iron	mg/kg dw	37,952	33,429	0.22 - 0.22	32,500 - 42,600
Lead	mg/kg dw	532	419	30.2 - 530	116 - 403
Manganese	mg/kg dw	293	249	260 - 1670	304 - 489
Mercury	mg/kg dw	625	322	0.15 - 1.06	1.1 - 14.7
Methyl Mercury	mg/kg dw	0.041	0.032	0.00001 - 0.00001	0.0006 - 0.0101
Vanadium	mg/kg dw	49	42	57 - 57	38.8 - 65.2
Zinc	mg/kg dw	1,572	1,223	121 - 1530	215 - 645
Aroclor 1254/1260	mg/kg dw	0.42	0.18	0.0227 - 0.676	0.443 - 0.443
2,3,7,8-TCDD Benthic Dioxin TEC (4)	mg/kg dw	3.2E-05	1.2E-05	8.5E-07	9.6E-07 - 1.9E-05
2,3,7,8-TCDD Benthic Furan TEC (4)	mg/kg dw	1.4E-04	8.3E-05	8.5E-07	5.6E-07 - 9.0E-06

Notes:
(1) Reasonable maximum exposure (RME) exposure point concentration (EPC) calculated as the 95% UCL on the mean using USEPA ProUCL Statistical Software. If statistical analysis could not be conducted, the maximum concentration was used.
(2) Central tendency (CT) exposure point concentration (EPC) calculated as the arithmetic mean, assuming one-half the method detection limit (MDL) for non-detect
(3) Background values were obtained from the reference stream known as Old Place Creek located in Staten Island, New York, on the eastern side of the Arthur Kill.
(4) WHO 1998 toxic equivalency factors (TEFs) for fish were utilized to calculate a benthic 2,3,7,8-TCDD toxic equivalency concentration (TEC) for dioxins and furans. See Attachment B for calculation details.

Definitions:
COPEC = Constituent of potential ecological concern
RME = Reasonable maximum exposure
CT = Central tendency
EPC = Exposure point concentration
mg/kg dw = milligram per kilogram dry weight
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration

Table 15
Final Baseline Ecological Risk Assessment
Toxicity Reference Values - Estuarine Fish
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	TRV Study (1)										
	TRV Study Chemical Form	Tissue Concentration (mg/kg)		Species	FW	MW	Life Stage	Study Duration (days)	Tissue	Endpoint	Comment
		wet weight	dry weight (2)								
Arsenic	Arsanilic acid	6.1	24.4	Rainbow Trout	X		Juvenile	56	Carcass	No effect growth, survival	NOEC
	Arsenic trioxide	8.8	35.2	Rainbow Trout	X		Juvenile	56	Carcass	No effect survival	NOEC
	Dimethylarsinic Acid	11.4	45.6	Rainbow Trout	X		Juvenile	56	Carcass	No effect growth, survival	NOEC
	Disodium arsenate heptahydrate	9.1	36.4	Rainbow Trout	X		Juvenile	56	Carcass	No effect survival	NOEC
	Sodium arsenite	5.5	22	Bluegill	X		Adult	112	Whole body	No effect growth, survival	NOEC
Barium	**No toxicity/residue information found**										
Chromium	Potassium dichromate	8.28	46	Worm (*nanthes areanceodentata*)		X	Juvenile-adult	158	Whole body	No effect reproduction	NOEC No information found for fish species
	Potassium dichromate	3.2	18	Sand crab		X	Juvenile	40	Whole body	No effect growth	NOEC No information found for fish species
Copper	Copper nitrate	7.4	30	Carp	X		Larvae	3.7	Whole body	No effect survival	NOEC
	Copper nitrate	11.1	44	Carp	X		Larvae	3.7	Whole body	Survival reduced	
Iron	**No toxicity/residue information found**										
Lead	Lead nitrate	2.5-5.1	10-20.4	Brook trout	X		Embryo-juvenile	84	Whole body	No effect growth	NOEC
Manganese	Manganese chloride	18.4	102	Blue mussel		X	Adult	8	Soft tissues	No effect survival	NOEC No information found for fish species
	Manganese chloride	15.5	86	Burrowing clam		X	Adult	10	Soft tissues	No effect survival	NOEC No information found for fish species
Mercury	Mercuric chloride	15.3	48	Eel		X	100 grams (3)	32	Whole body	25% reduced survival	EC25
	Mercuric chloride	6.1	19	Goldfish	X		4.5-6.5 cm	2	Whole body	No effect survival	NOEC
	Mercuric chloride	2.75	9	Fathead minnow	X		Larvae-adult	60	Whole body	No effect survival	NOEC
	Mercuric chloride	7.6	23.8	Fathead minnow	X		Larvae-adult	60	Whole body	No effect survival	NOEC
	Mercuric chloride	0.80	3	Fathead minnow	X		Larvae-adult	60	Whole body	No effect growth	NOEC
	Mercuric chloride	2.64	8	Fathead minnow	X		Larvae-adult	60	Whole body	No effect growth	NOEC
	Mercuric chloride	2.84	9	Fathead minnow	X		Larvae-adult	287	Whole body	No effect reproduction	NOEC
	Mercuric chloride	1.31	4	Fathead minnow	X		Larvae-adult	287	Whole body	Reduced growth	
	Mercuric chloride	4.76	14.9	Fathead minnow	X		Larvae-adult	287	Whole body	Reduced growth	
	Mercuric chloride	16	50.0	Japanese medaka	X		Embryo	16	Whole body	No effect survival	
Methyl Mercury	Methylmercuric chloride	1.91	7.6	Rainbow trout	X		10-20 mm	15	Whole body	No effect survival	0% mortality
	Methylmercuric chloride	11	44.0	Rainbow Trout	X		Adult	94	Whole body	No effect survival	NOEC
	Methylmercuric chloride	29	116	Rainbow Trout	X		Fingerling	84	Whole body	No effect growth, survival	NOEC
	Methylmercuric chloride	3.4	13.6	Brook trout	X		Adult	756	Whole body	No effect growth, survival, reproduction	NOEC
	Methylmercuric chloride	9.4	37.6	Brook trout	X		Adult	756	Whole body	Reduced growth, survival, reproduction	
	Methylmercuric chloride	10.9	43.6	Fathead minnow	X		Larvae-adult	336	Whole body	No effect growth, survival	NOEC
Vanadium	Sodium orthovanadate	5.33	21.3	Rainbow trout	X		Juvenile	84	Carcass	No effect survival	NOEC
	Vanadium pentoxide	5.74	17.9	Flagfish (killifish)	X		Adult	96	Whole body	No effect survival, growth, reproduction	
Zinc	Zinc sulfate	60	240	Atlantic salmon	X		Juvenile	80	Whole body	No effect survival, growth	NOEC
	Zinc sulfate	60-64	240-256	Flagfish	X		Embryo-adult	100	Whole body	No effect survival	NOEC
	Zinc sulfate	44	176	Flagfish	X		Embryo-adult	100	Whole body	No effect growth	NOEC
	Zinc sulfate	40	160	Flagfish	X		Larvae-adult	100	Whole body	No effect survival	NOEC
	Zinc sulfate	34	136	Flagfish	X		Larvae-adult	100	Whole body	No effect growth	NOEC
	Zinc sulfate	320-480	1,000-1,500	Guppy	X		Fry	134	Whole body	No effect survival, growth, reproduction	NOEC
	Zinc sulfate	280	875	Guppy	X		Fry	134	Whole body	No effect survival, growth, reproduction	NOEC
2,3,7,8-TCDD	2,3,7,8-TCDD	0.125	0.50	Coho salmon	X		Young	4 d	Whole body	No effect survival, growth	NOEC
	2,3,7,8-TCDD	0.0016	0.0064	Rainbow trout	X		Juvenile	105 d	Whole body	No effect survival, growth	NOEC
	2,3,7,8-TCDD	1.38	5.5	Rainbow trout	X		Juvenile	105 d	Whole body	Reduced survival, growth	
	2,3,7,8-TCDD	0.00025	0.0010	Rainbow trout	X		Fingerling	91 d	Whole body	No effect survival, growth	NOEC
	2,3,7,8-TCDD	0.00098	0.0039	Rainbow trout	X		Fry	28 d	Whole body	No effect survival	NOEC
	2,3,7,8-TCDD	0.000635-0.000146	0.0025-0.00015	Mummichog		X	Embryo	30 d	Whole body	Reduced hatchability	Not directly applicable to sampled fish, but included because same species

Notes:
(1) From Jarvinen, AW and Ankley, GT, 1999. *Linkage of Effects to Tissue Residues: Development of a Comprehensive Database for Aquatic Organisms Exposed to Inorganic and Organic Chemicals. SETAC Technical Publications Series. SETAC Press*
(2) Converted from wet weight assuming fish are 75% moisture (bony fish [trout, bluegill, carp]), 68% moisture (small fish) or 82% moisture (bivalves; USEPA, 1993 [Wildlife Exposure Factors Handbook])
(3) Assumed adult life stage based on data presented in Scott, W.E., 1945. The age and growth of eels (*Anguilla anguilla*) from the Windermere catchment area. *J. Animal Ecol* . 14:106-124.

Definitions:
mg/kg = milligrams per kilogram
FW = Freshwater
MW = Marine water
NOEC = No observable effect concentration
EC25 = Effects concentration (25% of test organisms)
"--" = Data not available

Table 16
Final Baseline Ecological Risk Assessment
Comparison of Mummichog Concentrations to Tissue TRVs
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	South Branch Creek COPECs	Units	RME EPC (1)	CT EPC (2)	Range of Background (3)	Range of Tissue TRVs
Metal	Arsenic	mg/kg dw	9.1	5.8	2.25 - 2.63	22 - 46
Metal	Barium	mg/kg dw	607	179	5.4 - 7.2	--
Metal	Chromium	mg/kg dw	1.3	0.95	0.9 - 2.4	18 - 46
Metal	Copper	mg/kg dw	18	15	15.1 - 29.1	30 - 44
Metal	Iron	mg/kg dw	328	255	217 - 352	--
Metal	Lead	mg/kg dw	3.1	2.2	1.79 - 2.71	10 - 20.4
Metal	Manganese	mg/kg dw	27	24	20.1 - 25.5	86 - 102
Metal	Mercury	mg/kg dw	5.4	2.6	0.098 - 0.152	3 - 50
Metal	Methyl Mercury	mg/kg dw	1.0	0.68	0.08 - 0.13	7.6 - 116
Metal	Vanadium	mg/kg dw	1.1	0.90	1.39 - 1.66	18 - 21
Metal	Zinc	mg/kg dw	176	167	139 - 159	136 - 1,500
PCB	Ortho-PCB Fish TEC	mg/kg dw	9.9E-07	5.7E-07	3.1E-07 - 7.1E-07	1.5E-04 - 5.5E+00

Notes:
(1) Reasonable maximum exposure (RME) exposure point concentration (EPC) calculated as the 95% UCL on the mean using USEPA ProUCL Statistical Software. If statistical analysis could not be conducted, the maximum concentration was used.
(2) Central tendency (CT) exposure point concentration (EPC) calculated as the arithmetic mean, assuming one-half the method detection limit (MDL)
(3) Background values were obtained from the reference stream known as Old Place Creek located in Staten Island, New York, on the eastern side of the Arthur Kill.

Definitions:
RME = Reasonable maximum exposure
EPC = Exposure point concentration
CT = Central tendency
TRV = Toxicity reference value
mg/kg dw = milligram per kilogram dry weight
PCB = Polychlorinated biphenyl
TEC = Toxic equivalency concentration

Table 17
Final Baseline Ecological Risk Assessment
Exposure Assumptions for South Branch Creek Wildlife Receptors
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	Feeding Guild	Representative Receptor	Body Weight (1)	Daily Food Ingestion (2)	Dietary Breakdown (Fraction)			Water Ingestion Rate (5)	Daily Water Ingestion (5)	Home Range (6)	Area Use Factor (6)
					Sediment (3)	Crabs (4)	Fish (4)				
			grams	g_{dw}/day				g/g_{BW}-day	mL/day	acres	unitless
Mammals	Omnivore	Raccoon	6,500	320	0.094	0.5	0.5	0.0825	27	390	0.10
	Piscivore	Mink	1,020	49	0.043	0.1	0.9	0.10	5.3	2.24 (km)	0.17
Birds	Invertivore	Spotted Sandpiper	42.5	9.3	0.18	0.9	0.1	0.165	0.35	0.63	1.0
	Piscivore	Great Blue Heron	2,336	84	0.02	0.1	0.9	0.045	5.3	11	0.21

Notes:

Raccoon (*Procyon lotor*)

(1) Body weight is the arithmetic mean of means, adults, both sexes, Illinois and Missouri (USEPA, 1993).
(2) Daily food ingestion (dry matter) for mammals calculated as DFI/day = 0.235*(BW g)^0.822 (USEPA, 1993).
(3) Fraction of sediment/bank soil in the diet for raccoons estimated from acid-insoluble ash of scat (USEPA, 1993).
(4) Raccoons are opportunistic omnivores; therefore, the diet is assumed to be 50% crabs and 50% fish.
(5) Water ingestion rate is the arithmetic mean of means, adults, both sexes (USEPA, 1993). Daily water ingestion calculated as DWI = IRW*BW*FI, where: IRW = water ingestion rate (g/gbw-day); BW = body weight (g); FI = fraction ingested, which is assumed to be 5% given the brackish nature of SBC; and assuming 1 g of water is equivalent to 1 milliliter of water.
(6) Home range is the arithmetic mean of means, adult, both sexes, Michigan, riparian habitat (USEPA, 1993) and corresponds to 156 hectares (390 acres). The creek encompasses approximately 2.3 acres (less than 1% of the home range); however, a raccoon was conservatively assumed to spend 10% of its time foraging at the creek.

Mink (*Mustela vison*)

(1) Body weight is the arithmetic mean of means, adults, both sexes (USEPA, 1993).
(2) Daily food ingestion (dry matter) for carnivorous mammals calculated as DFI/day = 0.153*(BW g)^0.834 (Nagy, 2001; Equation #25).
(3) Fraction of sediment/bank soil in the diet is the 90th percentile value for weasels (Attachment 4-1, USEPA 2007).
(4) Based on reported diet of mink in Michigan near a stream/river (USEPA, 1993), the diet is assumed to be primarily fish (90%), but supplemented with invertebrates (10%).
(5) Water ingestion rate is arithmetic mean of means, adults, both sexes, non-farm-raised (USEPA, 1993). Daily water ingestion calculated as DWI = IRW*BW*FI, where: IRW = ingestion rate of water (g/gbw-day); BW = body weight (g); FI = fraction ingested, which is assumed to be 5% given the brackish nature of SBC; and assuming 1 g of water is equivalent to 1 milliliter of water.
(6) Home range is the arithmetic mean of means, adult, both sexes, Sweden, stream habitat (USEPA, 1993) and corresponds to 2.24 kilometers (km). SBC is approximately 1,200 ft (0.37 km) in length, which is approximately 17% of the home range.

Spotted Sandpiper (*Actitis macularia*)

(1) Body weight is the arithmetic mean of means, adults, both sexes (USEPA, 1993).
(2) Daily food ingestion (dry matter) for spotted sandpiper is calculated as DFI/day = 0.522*(BW g)^0.769 (Nagy, 2001; Equation #39 [shorebirds])
(3) Fraction of sediment in diet for sandpipers estimated from acid-insoluble ash of scat; value is the average of four sandpiper species (USEPA, 1993).
(4) The spotted sandpiper's diet consists primarily of flying insects, but crustaceans, leeches, molluscs, small fish, and carrion are also eaten (USEPA, 1993). Therefore, the diet is assumed to be 90% crabs (a surrogate for insects) and 10% fish.
(5) Water ingestion rate is the mean of means, adults, both sexes (USEPA, 1993). Daily water ingestion calculated as DWI = IRW*BW*FI, where: IRW = ingestion rate of water (g/gbw-day); BW = body weight (g); FI = fraction ingested, which is assumed to be 5% given the brackish nature of SBC; and assuming 1 g of water is equivalent to 1 milliliter of water.
(6) The approximate territory size of a spotted sandpiper is 0.25 hectares (USEPA, 1993), which corresponds to 0.62 acres. SBC encompasses approximately 2.3 acres; therefore, an area use factor of 1 was assumed.

Great Blue Heron (*Ardea herodia*)

(1) Body weight is the arithmetic mean of means, adult, both sexes (USEPA, 1993).
(2) Mean food ingestion rate (wet weight) = 0.18 g/gbw-day (USEPA, 1993). Daily food ingestion calculated as DFI = IRF*BW*(1-% H20), where: IRF = food ingestion rate (g/gbw-day); BW = body weight (g); and assuming fish are 80% water (based on water composition of fish reported in USEPA, 1999).
(3) Fraction of soil in diet for the great blue heron is estimated from acid-insoluble ash of scat of mallards (USEPA, 1993).
(4) Herons' diets primarily consist of fish, but may also include site-specific prey items (USEPA, 1993); therefore, the diet is assumed to be 90% fish and 10% crabs.
(5) Mean water ingestion rate (USEPA, 1993). Daily water ingestion calculated as DWI = IRW*BW*FI, where: IRW = ingestion rate of water (g/gbw-day); BW = body weight (g); FI = fraction ingested, which is assumed to be 5% given the brackish nature of SBC; and assuming 1 g of water is equivalent to 1 milliliter of water.
(6) Home range is the based on the mean of mean feeding areas reported in Oregon (USEPA, 1993) and corresponds to 4.5 hectares (11 acres). The creek encompasses approximately 2.3 acres, which is approximately 21% of the home range.

Sources:

USEPA. 1993. Wildlife Exposure Factors Handbook, Volume I of II. Office of Research and Development. EPA/600/R-93/187. December.
USEPA. 1999. Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities, Appendix C. Peer Review Draft. August.
Nagy KA. 2001. Food Requirements of Wild Animals: Predictive Equations for Free-Living Mammals, Reptiles, and Birds. *Nutrition Abstracts and Reviews, Series B* 71: 21R-31R.
USEPA. 2007. Guidance for Developing Ecological Soil Screening Levels (Eco-SSLs), Attachment 4-1: Exposure Factors and Bioaccumulation Models for Derivation of Wildlife Eco-SSLs. OSWER Directive 9285.7-55. April.

Table 18
Final Baseline Ecological Risk Assessment
Exposure Assumptions for Upland Area Wildlife Receptors
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Class	Feeding Guild	Representative Receptor	Body Weight (1)	Daily Food Ingestion (2)	Dietary Breakdown (Fraction)			Home Range (5)	Area Use Factor (5)
					Soil (3)	Invertebrates (4)	Mammals (4)		
			grams	g_{dw}/day				acres	unitless
Mammals	Invertivore	Short-tailed Shrew	16.8	2.2	0.03	1.0	--	1.0	1.0
	Carnivore	Red Fox	4,535	172	0.028	--	1.0	1,016	0.10
Birds	Invertivore	American Woodcock	169	20	0.104	1.0	--	73	0.36
	Carnivore	Red-tailed Hawk	1,134	90	0.057	--	1.0	1,743	0.10

Notes:

Short-tailed Shrew (*Blarina brevicauda*)

(1) Body weight is the arithmetic mean of means, adults, both sexes (USEPA, 1993).
(2) Daily food ingestion (dry matter) for invertivorous mammals calculated as DFI/day = 0.373*(BW g)^0.622 (Nagy, 2001; Equation #31).
(3) Fraction of soil in the diet is the 90th percentile value for shrews (Attachment 4-1, USEPA 2007).
(4) Stomach analysis indicates that insects, earthworms, slugs, and snails make up the majority of the shrew's diet (USEPA, 1993). For the BERA, the diet is assumed to consist of 100% earthworms.
(5) Mean home range for breeding males and females is 39 hectares or, approximately 1 acre, (USEPA, 1993). The terrestrial portion of the Site encompasses approximately 26 acres; therefore, the shrew is assumed to forage entirely within the Site.

Red Fox (*Vulpes vulpes*)

(1) Body weight is the arithmetic mean of means, adults, both sexes (USEPA, 1993)
(2) Daily food ingestion (dry matter) for carnivorous mammals calculated as DFI/day = 0.153*(BW g)^0.834 (Nagy, 2001; Equation #25).
(3) Fraction of soil in diet for the red fox estimated from acid-insoluble ash of scat (USEPA, 1993).
(4) The red fox's diet primarily consists of small mammals, birds, insects, and fruit (USEPA, 1993). For the BERA, the diet is assumed to consist of 100% small mammals.
(5) Home range is the arithmetic mean of means, adults, both sexes, all year (USEPA, 1993) and corresponds to 407 hectares (1,016 acres). The terrestrial portion of the Site encompasses approximately 26 acres or, approximately 1% of the red fox's home range. However, for the BERA, the red fox was conservatively assumed to spend 10% of its time foraging at the Site.

American Woodcock (*Scolopax minor*)

(1) Body weight is the arithmetic mean of medians, adults, both sexes, Pennsylvania (USEPA, 1993).
(2) Daily food ingestion (dry matter) for invertivorous birds calculated as DFI/day = 0.540*(BW g)^0.705 (Nagy, 2001; Equation #59).
(3) Fraction of soil in diet for the American woodcock estimated from acid-insoluble ash of scat (USEPA, 1993).
(4) Woodcocks primarily feed on invertebrates (USEPA, 1993). For the BERA, the diet is assumed to consist of 100% earthworms.
(5) Home range is the arithmetic mean of medians, adult, both sexes, Pennsylvania (USEPA, 1993) and corresponds to 29 hectares (73 acres). The terrestrial portion of the Site encompasses approximately 26 acres or, 36% of the American woodcock's home range.

Red-tailed Hawk (*Buteo jamaicensis*)

(1) Body weight is the arithmetic mean of means, adults, both sexes (USEPA, 1993).
(2) Daily food ingestion (dry matter) for carnivorous birds calculated as DFI/day = 0.849*(BW g)^0.663 (Nagy, 2001; Equation #63).
(3) Fraction of soil in the diet is the 90th percentile value for hawks (Attachment 4-1, USEPA 2007).
(4) Small mammals are important prey for hawks (USEPA, 1993). For the BERA, the diet is assumed to consist of 100% small mammals.
(5) Home range is the mean value reported for hawks in Michigan and corresponds to 697 hectares (1,743 acres). The terrestrial portion of the Site encompasses approximately 26 acres or, approximately 3% of the red fox's home range. However, for the BERA, the red-tailed hawk was conservatively assumed to spend 10% of its time foraging at the Site.

Sources:

USEPA. 1993. Wildlife Exposure Factors Handbook, Volume I of II. Office of Research and Development. EPA/600/R-93/187. December.
USEPA. 1999. Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities, Appendix C. Peer Review Draft. August.
Nagy KA. 2001. Food Requirements of Wild Animals: Predictive Equations for Free-Living Mammals, Reptiles, and Birds. *Nutrition Abstracts and Reviews, Series B* 71: 21R-31R.
USEPA. 2007. Guidance for Developing Ecological Soil Screening Levels (Eco-SSLs), Attachment 4-1: Exposure Factors and Bioaccumulation Models for Derivation of Wildlife Eco-SSLs. OSWER Directive 9285.7-55. April.

Table 19
Final Baseline Ecological Risk Assessment
NOAEL Toxicity Reference Values - Mammalian Species
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPEC	Exposure Area	Endpoint/Duration/ Effect	Source*	TRV mg/kg-day
Antimony	Upland	Highest bounded mammalian NOAEL lower than the lowest bounded mammalian LOAEL for reproduction, growth, and survival.	USEPA, 2005a	5.90E-02
Arsenic	SBC / Upland	Highest bounded mammalian NOAEL lower than lowest bounded mammalian LOAEL for reproduction, growth, or survival.	USEPA, 2005b	1.04E+00
Barium	SBC / Upland	Geometric mean of mammalian NOAELs for reproduction and growth.	USEPA, 2005c	5.18E+01
Beryllium	Upland	Lowest mammalian NOAEL for effects on growth, reproduction, or survival.	USEPA, 2005d	5.32E-01
Cadmium	Upland	Highest bounded mammalian NOAEL lower than lowest bounded mammalian LOAEL for reproduction, growth, or mortality.	USEPA, 2005e	7.70E-01
Chromium	SBC / Upland	Geometric mean of mammalian NOAELs for reproduction and growth.	USEPA, 2008	2.40E+00
Chromium, Hexavalent	SBC / Upland	Geometric mean of mammalian NOAELs for reproduction and growth.	USEPA, 2008	9.24E+00
Cobalt	Upland	Geometric mean of mammalian NOAELSs for reproduction and growth.	USEPA, 2005f	7.33E+00
Copper	SBC	Highest bounded mammalian NOAEL lower than lowest bounded mammalian LOAEL for reproduction, growth, or survival.	USEPA, 2007a	5.60E+00
Iron	SBC	No Data	--	--
Lead	SBC / Upland	Highest bounded mammalian NOAEL lower than lowest bounded mammalian LOAEL for reproduction, growth, or mortality.	USEPA, 2005g	4.70E+00
Manganese	SBC	Geometric mean of mammalian NOAELs for reproduction and growth.	USEPA, 2007b	5.15E+01
Mercury	SBC / Upland	Chronic NOAEL, mercuric chloride, mink, oral in diet, 6 months (critical lifestage), reproduction	Sample et al., 1996 Aulerich et al., 1974	1.00E+00
Methyl mercury	SBC / Upland	Chronic NOAEL, methyl mercury chloride, rat, oral in diet, 3 generations (critical lifestage), reproduction	Sample et al., 1996 Verschuuren et al., 1976	3.20E-02
Selenium	Upland	Highest bounded mammalian NOAEL lower than the lowest bounded mammalian LOAEL for reproduction, growth, or survival.	USEPA, 2007c	1.43E-01
Vanadium	SBC / Upland	Highest bounded mammalian NOAEL lower than lowest bounded mammalian LOAEL for reproduction, growth, or survival.	USEPA, 2005h	4.16E+00
Zinc	SBC	Geometric mean of mammalian NOAELs for reproduction and growth.	USEPA, 2007d	7.54E+01
alpha-Chlordane	Upland	Chronic NOAEL, mouse, oral in diet, 6 generations (critical lifestage), reproduction	Sample et al., 1996 WHO, 1984	4.6E+00
Hexachlorobenzene	Upland	Chronic NOAEL, rat, oral in diet, 2 generations, liver effects	USEPA IRIS Arnold et al., 1985	8.00E-02
Aroclor 1254/1260	SBC / Upland	Chronic NOAEL, Aroclor 1254, mink, oral in diet, 4.5 months (critical lifestage), reproduction	Sample et al., 1996 Aulerich and Ringer, 1977	1.40E-01
Ortho-PCB Mammalian TEC	SBC	Chronic NOAEL, 2,3,7,8-TCDD, rat, oral in diet, 3 generations (critical lifestage), reproduction	Sample et al., 1996 Murray et al., 1979	1.00E-06
Dioxin/Furan Mammalian TEC	SBC	Chronic NOAEL, 2,3,7,8-TCDD, rat, oral in diet, 3 generations (critical lifestage), reproduction	Sample et al., 1996 Murray et al., 1979	1.00E-06
Trichloroethylene	Upland	Subchronic LOAEL (100x safety factor), mouse, oral gavage, 6 weeks (subchronic), hepatotoxicity	Sample et al., 1996 Buben and O'Flaherty, 1985	7.00E-01

* A list of TRV source documents follows Table 22.

Table 20
Final Baseline Ecological Risk Assessment
LOAEL Toxicity Reference Values - Mammalian Species
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPEC	Exposure Area	Endpoint/Duration/ Effect	Source	TRV mg/kg-day
Antimony	Upland	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2005a	2.76E+00
Arsenic	SBC / Upland	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2005b	4.55E+00
Barium	SBC / Upland	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2005c	8.27E+01
Beryllium	Upland	Geometric mean of mammalian LOAELs for growth	USEPA, 2005d	6.73E-01
Cadmium	Upland	Geometric mean of mammalian LOAELs for growth and reproduction	USEPA, 2005e	6.90E+00
Chromium	SBC / Upland	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2008	5.82E+01
Chromium, Hexavalent	SBC / Upland	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2008	3.84E+01
Cobalt	Upland	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2005f	1.89E+01
Copper	SBC	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2007a	8.27E+01
Iron	SBC	No Data	--	--
Lead	SBC / Upland	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2005g	1.89E+02
Manganese	SBC	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2007b	1.46E+02
Mercury	SBC / Upland	Chronic NOAEL, mercuric chloride, mink, oral in diet, 6 months (critical lifestage), reproduction	Sample et al., 1996 Aulerich et al., 1974	1.00E+01
Methyl mercury	SBC / Upland	Chronic LOAEL, methyl mercury chloride, rat, oral in diet, 3 generations (critical lifestage), reproduction	Sample et al., 1996 Verschuuren et al., 1976	1.60E-01
Selenium	Upland	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2007c	6.60E-01
Vanadium	SBC / Upland	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2005h	9.44E+00
Zinc	SBC	Geometric mean of mammalian LOAELs for reproduction and growth	USEPA, 2007d	2.98E+02
alpha-Chlordane	Upland	Chronic LOAEL, mouse, diet, 6 generations (crit. lifestage), reproduction	Sample et al., 1996 WHO, 1984	9.20E+00
Hexachlorobenzene	Upland	Chronic LOAEL, rat, oral in diet, 2 generations, liver effects	USEPA, IRIS, 1991 Arnold et al., 1985	2.90E-01
Aroclor 1254/1260	SBC / Upland	Chronic LOAEL, Aroclor 1254, mink, diet, 4.5 months (crit. lifestage), reproduction	Sample et al., 1996 Aulerich and Ringer, 1977	6.90E-01
Ortho-PCB Mammalian TEC	SBC	Chronic LOAEL, 2,3,7,8-TCDD, rat, diet, 3 generations (crit. lifestage), reproduction	Sample et al., 1996 Murray et al., 1979	1.00E-05
Dioxin/Furan Mammalian TEC	SBC	Chronic LOAEL, 2,3,7,8-TCDD, rat, diet, 3 generations (crit. lifestage), reproduction	Sample et al., 1996 Murray et al., 1979	1.00E-05
Trichloroethylene	Upland	Subchronic LOAEL (10x safety factor), mouse, oral gavage, 6 weeks (subchronic), hepatotoxicity	Sample et al., 1996 Buben and O'Flaherty, 1985	7.00E+00

* A list of TRV source documents follows Table 22.

Table 21
Final Baseline Ecological Risk Assessment
NOAEL Toxicity Reference Values - Avian Species
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPEC	Exposure Area	Endpoint/ Duration/ Effect	Source	TRV mg/kg-day
Antimony	Upland	No avian studies identified; highest bounded mammalian NOAEL lower than the lowest bounded mammalian LOAEL for reproduction, growth, or mortality with a 3x safety factor applied	USEPA, 2005a	1.97E-02
Arsenic	SBC / Upland	Lowest avian NOAEL for effects on reproduction, growth, and survival.	USEPA, 2005b	2.24E+00
Barium	SBC / Upland	Subchronic NOAEL (10x safety factor), barium hydroxide, 1-day old chicks, oral in diet, 4 weeks, mortality	Sample et al,. 1996 Johnson et al., 1960	2.08E+01
Beryllium	Upland	No avian studies identified; lowest mammalian NOAEL for effects on growth, reproduction, or mortality with a 3x safety factor applied	USEPA, 2005d	1.77E-01
Cadmium	Upland	Geometric mean of avian NOAELs for reproduction and growth.	USEPA, 2005e	1.47E+00
Chromium	SBC / Upland	Geometric mean of avian NOAELs for reproduction and growth.	USEPA, 2008	2.66E+00
Chromium, Hexavalent	SBC / Upland	No avian studies identified; geometric mean of mammalian NOAELs for reproduction and growth with a 3x safety factor applied	USEPA, 2008	3.08E+00
Cobalt	Upland	Geometric mean of avian NOAELs for growth.	USEPA, 2005f	7.61E+00
Copper	SBC	Highest bounded avian NOAEL lower than lowest bounded avian LOAEL for reproduction, growth, or survival.	USEPA, 2007a	4.05E+00
Iron	SBC	No Data	--	--
Lead	SBC / Upland	Highest bounded avian NOAEL lower than lowest bounded avian LOAEL for reproduction, growth, or mortality.	USEPA, 2005g	1.63E+00
Manganese	SBC	Geometric mean of avian NOAEL values for effects on reproduction and growth.	USEPA, 2007b	1.79E+02
Mercury	SBC / Upland	Chronic NOAEL, mercuric chloride, Japanese quail, oral in diet, 1 year (during reproduction), reproduction	Sample et al,. 1996 Hill and Schaffner, 1976	4.50E-01
Methyl mercury	SBC / Upland	Chronic LOAEL (10x safety factor), methyl mercury dicyandiamide, mallard duck, oral in diet, 3 generations (critical lifestage), reproduction	Sample et al,. 1996 Heinz, 1979	6.40E-03
Selenium	Upland	Highest bounded avian NOAEL lower than lowest bounded avian LOAEL of reproduction, growth, or survival.	USEPA, 2007c	2.90E-01
Vanadium	SBC / Upland	Highest bounded avian NOAEL lower than lowest bounded avian LOAEL of reproduction, growth, or survival.	USEPA, 2005h	3.44E-01
Zinc	SBC	Geometric mean of avian NOAEL values for effects on reproduction and growth	USEPA, 2007d	6.61E+01
alpha-Chlordane	Upland	Chronic NOAEL, red-winged, blackbird, diet, 84 days (chronic), mortality	Sample et al,. 1996 Stickel et al., 1983	2.14E+00
Hexachlorobenzene	Upland	No avian studies identified; chronic NOAEL, rat (3x safety factor), oral in diet, 2 generations, liver effects	USEPA IRIS Arnold et al., 1985	2.67E-02
Aroclor 1254/1260	SBC / Upland	Chronic LOAEL with 10x safety factor, Aroclor 1254, ring-necked pheasant, oral capsule, 17 weeks (critical lifestage), reproduction	Sample et al,. 1996 Dahlgren et al., 1972	1.80E-01
Ortho-PCB Avian TEC	SBC	Chronic NOAEL, 2,3,7,8-TCDD, ring-necked pheasant, intraperitoneal injection, 10 weeks (critical lifestage), reproduction	Sample et al,. 1996 Nosek et al., 1992	1.40E-05
Dioxin/Furan Avian TEC	SBC	Chronic NOAEL, 2,3,7,8-TCDD, ring-necked pheasant, intraperitoneal injection, 10 weeks (critical lifestage), reproduction	Sample et al,. 1996 Nosek et al., 1992	1.40E-05
Trichloroethylene	Upland	No avian studies identified; subchronic LOAEL (100x safety factor), mouse (3x safety factor), oral gavage, 6 weeks (subchronic), hepatotoxicity	Sample et al., 1996 Buben and O'Flaherty, 1985	2.33E-01

* A list of TRV source documents follows Table 22.

Table 22
Final Baseline Ecological Risk Assessment
LOAEL Toxicity Reference Values - Avian Species
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

COPEC	Exposure Area	Endpoint/ Duration/ Effect	Source	TRV mg/kg-day
Antimony	Upland	No avian studies identified; geometric mean of mammalian LOAELs for reproduction and growth with a 3x safety factor applied	USEPA, 2005 (February)	9.20E-01
Arsenic	SBC / Upland	Geometric mean of avian LOAELs for growth (reproduction LOAEL data not available)	USEPA, 2005 (March)	4.51E+00
Barium	SBC / Upland	Subchronic LOAEL (10x safety factor), barium hydroxide, 1-day old chicks, oral in diet, 4 weeks, mortality	Sample et al,. 1996 Johnson et al., 1960	4.17E+01
Beryllium	Upland	No avian studies identified; geometric mean of mammalian LOAELs for growth with a 3x safety factor	USEPA, 2005 (February)	2.24E-01
Cadmium	Upland	Geometric mean of avian LOAELs for reproduction and growth	USEPA, 2005 (March)	6.35E+00
Chromium	SBC / Upland	Geometric mean of avian LOAELs for reproduction and growth	USEPA, 2008 (April)	1.56E+01
Chromium, Hexavalent	SBC / Upland	No avian studies identified; geometric mean of mammalian LOAELs for reproduction and growth with a 3x safety factor applied	USEPA, 2008 (April)	1.28E+01
Cobalt	Upland	Geometric mean of avian LOAELs for growth (reproduction LOAEL data not available)	USEPA, 2005 (March)	1.83E+01
Copper	SBC	Geometric mean of avian LOAELs for reproduction and growth	USEPA, 2007 (February)	3.49E+01
Iron	SBC	No Data	--	--
Lead	SBC / Upland	Geometric mean of avian LOAELs for reproduction and growth	USEPA, 2005 (March)	4.46E+01
Manganese	SBC	Geometric mean of avian LOAELs for growth (reproduction LOAEL data not available)	USEPA, 2007 (April)	3.77E+02
Mercury	SBC / Upland	Chronic LOAEL, mercuric chloride, Japanese quail, oral in diet, 1 year (during reproduction), reproduction	Sample et al,. 1996 Hill and Schaffner, 1976	9.00E-01
Methyl mercury	SBC / Upland	Chronic LOAEL, methyl mercury dicyandiamide, mallard duck, oral in diet, 3 generations (critical lifestage), reproduction	Sample et al,. 1996 Heinz, 1979	6.40E-02
Selenium	Upland	Geometric mean of avian LOAELs for reproduction and growth	USEPA, 2007 (July)	8.19E-01
Vanadium	SBC / Upland	Geometric mean of avian LOAELs for reproduction and growth	USEPA, 2005 (April)	1.70E+00
Zinc	SBC	Geometric mean of avian LOAELs for reproduction and growth	USEPA, 2007 (June)	1.71E+02
alpha-Chlordane	Upland	LOAEL, red-winged blackbird, diet, 84 days (chronic), mortality	Sample et al,. 1996 Stickel et al., 1983	1.07E+01
Hexachlorobenzene	Upland	No avian studies identified; chronic LOAEL, rat (3x safety factor), oral in diet, 2 generations, liver effects	USEPA, IRIS, 1991 Arnold et al., 1985	9.67E-02
Aroclor 1254/1260	SBC / Upland	Chronic LOAEL, Aroclor 1254, ring-necked pheasant, oral capsule, 17 weeks (crit. Lifestage), reproduction	Sample et al,. 1996 Dahlgren et al., 1972	1.80E+00
Ortho-PCB Avian TEC	SBC	Chronic LOAEL, 2,3,7,8-TCDD, ring-necked pheasant, intraperitoneal injection, 10 weeks (crit. lifestage), reproduction	Sample et al,. 1996 Nosek et al., 1992	1.40E-04
Dioxin/Furan Avian TEC	SBC	Chronic LOAEL, 2,3,7,8-TCDD, ring-necked pheasant, intraperitoneal injection, 10 weeks (crit. lifestage), reproduction	Sample et al,. 1996 Nosek et al., 1992	1.40E-04
Trichloroethylene	Upland	No avian toxicity studies identified; subchronic LOAEL (10x safety factor), mouse (3x safety factor), oral gavage, 6 weeks (subchronic), hepatotoxicity	Sample et al., 1996 Buben and O'Flaherty, 1985	2.33E+00

* A list of TRV source documents follows Table 22.

TRV Sources:

Arnold, D.L., C.A. Moodie, S.M. Charbonneau, et al., 1985. Long-term Toxicity of Hexachlorobenzene in the Rat and the Effect of Dietary Vitamin A. *Fd. Chem. Toxic* . 23(9): 779-793.

Aulerich, R.J. and R.K. Ringer. 1977. Current Status of PCB Toxicity, Including Reproduction in Mink. *Arch. Environ. Contam. Toxicol.* 6: 279.

Aulerich, R.J., R.K. Ringer, S. Iwamoto. 1974. Effects of Dietary mercury on Mink. *Arch. Environ. Contam. Toxicol.* 2: 43-51.

Buben, J.A. and E.J. O'Flaherty. 1985. Delineation of the Role of Metabolism in the Hepatotoxicity of Trichloroethylene and Perchloroethylene: A Dose-Effect Study. *Toxicol. Appl. Pharmacol.* 78: 105-122.

Dahlgren, R.B., R.L. Linder, and C.W. Carlson. 1972. Polychlorinated Biphenyls: Their Effects on Penned Pheasants. *Environ. Health Perspect* . 1: 89-101.

Heinz, G.H. 1979. Methyl Mercury: Reproductive and Behavioral Effects on Three Generations of Mallard Ducks. *J. Wildl. Mgmt.* 43: 394-401.

Hill, E.F. and C.S. Schaffner. 1976. Sexual Maturation and Productivity of Japanese Quail Fed Graded Concentrations of Mercuric Chloride. *Poult. Sci* . 55: 1449-1459.

Murray, F.J., F.A. Smith, K.D. Nitschke, C.G. Humiston, R.J. Kociba, and B.A. Schwetz. 1979. Three-Generation Reproduction Study of Rats Given 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in the diet. *Toxicol. Appl. Pharmacol* . 50: 241-252.

Nosek, J.A., S.R. Craven, J.R. Sullivan, S.S. Hurley, and R.E. Peterson. 1992. Toxicity and Reproductive Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin in Ring-necked Pheasants. *J. Toxicol. Environ. Health.* 35: 187-198.

Sample, B.E., D.M. Opresko, G.W. Suter,II. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Prepared for US Dept. of Energy. ES/ER/TM-86/R3

Stickel, L.F., W.H. Stickel, R.A. Dyrland, and D.L. Hughes. 1983. Oxychlordane, HCS-3260, and Nonachlor in Birds: Lethal Residues and Loss Rates. *J. Toxicol. Environ. Health.* 12: 611-622.

USEPA. 2005a. Ecological Soil Screening Levels for Antimony: Interim Final, OSWER Directive 9285.7-61. Issued February 2005; Revised April 2007. US Environmental Protection Agency, Washington, DC.

USEPA. 2005b. Ecological Soil Screening Levels for Arsenic: Interim Final, OSWER Directive 9285.7-62. Issued March 2005. US Environmental Protection Agency, Washington, DC.

USEPA. 2005c. Ecological Soil Screening Levels for Barium: Interim Final, OSWER Directive 9285.7-63. Issued February 2005; Revised April 2007. US Environmental Protection Agency, Washington, DC.

USEPA. 2005d. Ecological Soil Screening Levels for Beryllium. Interim Final, OSWER Directive 9285.7-64. Issued February 2005. US Environmental Protection Agency, Washington, DC.

USEPA. 2005e. Ecological Soil Screening Levels for Cadmium: Interim Final, OSWER Directive 9285.7-65. Issued March 2005. US Environmental Protection Agency, Washington, DC.

USEPA. 2005f. Ecological Soil Screening Levels for Cobalt: Interim Final, OSWER Directive 9285.7-67. Issued March 2005. US Environmental Protection Agency, Washington, DC.

USEPA. 2005g. Ecological Soil Screening Levels for Lead: Interim Final, OSWER Directive 9285.7-70. Issued March 2005. US Environmental Protection Agency, Washington, DC.

USEPA. 2005h. Ecological Soil Screening Levels for Vanadium: Interim Final, OSWER Directive 9285.7-75. Issued April 2005. US Environmental Protection Agency, Washington, DC.

USEPA. 2007a. Ecological Soil Screening Levels for Copper: Interim Final, OSWER Directive 9285.7-68. Issued July 2006; Revised February 2007. US Environmental Protection Agency, Washington, DC.

USEPA. 2007b. Ecological Soil Screening Levels for Manganese: Interim Final, OSWER Directive 9285.7-71. Issued April 2007. US Environmental Protection Agency, Washington, DC.

USEPA. 2007c. Ecological Soil Screening Levels for Selenium: Interim Final, OSWER Directive 9285.7-72. Issued July 2007. US Environmental Protection Agency, Washington, DC.

USEPA. 2007d. Ecological Soil Screening Levels for Zinc: Interim Final, OSWER Directive 9285.7-73. Issued June 2007. US Environmental Protection Agency, Washington, DC.

USEPA. 2008. Ecological Soil Screening Levels for Chromium: Interim Final, OSWER Directive 9285.7-66. Issued March 2005; Revised April 2008. US Environmental Protection Agency, Washington, DC.

USEPA. IRIS (Integrated Risk Information System. http://epa.gov/iris/ Accessed April 2013.

Verschuuren, H.G., R. Kroes, E.M. Den Tonkelaar, J.M. Berkvens, P.W. Helleman, A.G. Rauws, P.L. Schuller, and G.J. Van Esch. 1976. Toxicity of Methyl Mercury Chloride in Rats. II. Reproduction Study. *Toxicol.* 1: 67-71.

WHO (World Health Organization). 1984. Chlordane. *Environ. Health Criter.* 34. 82pp.

Table 23
Final Baseline Ecological Risk Assessment
RME Risk Characterization for South Branch Creek - Raccoon
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	Sediment		Fiddler Crab		Mummichog		Surface Water		Total ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SED} (1) mg/kg dw	ADD_{SED} (2) mg/kg_{bw}-day	EPC_{CR} (1) mg/kg dw	ADD_{CR} (2) mg/kg_{bw}-day	EPC_{FI} (1) mg/kg dw	ADD_{FI} (2) mg/kg_{bw}-day	EPC_{SW} (1) µg/L	ADD_{SW} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Arsenic	3.9E+02	1.8E-01	3.5E+01	8.6E-02	9.1E+00	2.2E-02	1.0E+02	4.2E-04	2.9E-01	1.0E+00	4.6E+00	0.3	0.06
Barium	7.1E+03	3.3E+00	2.2E+03	5.4E+00	6.1E+02	1.5E+00	5.1E+02	2.1E-03	1.0E+01	5.2E+01	8.3E+01	0.2	0.1
Chromium	1.4E+02	6.5E-02	2.4E+01	5.8E-02	1.3E+00	3.1E-03	1.3E+01	5.4E-05	1.3E-01	2.4E+00	5.8E+01	0.05	0.002
Chromium, Hexavalent	3.9E+00	1.8E-03	--	--	--	--	--	--	1.8E-03	9.2E+00	3.8E+01	0.0002	0.00005
Copper	3.2E+02	1.5E-01	1.6E+02	4.0E-01	1.8E+01	4.5E-02	--	--	5.9E-01	5.6E+00	8.3E+01	0.1	0.007
Iron	3.8E+04	1.8E+01	1.7E+03	4.1E+00	3.3E+02	8.1E-01	2.9E+03	1.2E-02	2.2E+01	--	--	--	--
Lead	5.3E+02	2.5E-01	2.0E+01	4.9E-02	3.1E+00	7.6E-03	2.0E+01	8.1E-05	3.0E-01	4.7E+00	1.9E+02	0.06	0.002
Manganese	2.9E+02	1.4E-01	5.0E+01	1.2E-01	2.7E+01	6.6E-02	1.8E+02	7.5E-04	3.2E-01	5.2E+01	1.5E+02	0.006	0.002
Mercury	6.3E+02	2.9E-01	3.0E+01	7.4E-02	5.4E+00	1.3E-02	8.2E+00	3.4E-05	3.8E-01	1.0E+00	1.0E+01	0.4	0.04
Methyl mercury	4.1E-02	1.9E-05	3.5E-01	8.6E-04	1.0E+00	2.6E-03	2.0E-02	8.0E-08	3.5E-03	3.2E-02	1.6E-01	0.1	0.02
Vanadium	4.9E+01	2.2E-02	2.8E+00	7.0E-03	1.1E+00	2.6E-03	--	--	3.2E-02	4.2E+00	9.4E+00	0.008	0.003
Zinc	1.6E+03	7.3E-01	1.2E+02	2.9E-01	1.8E+02	4.3E-01	8.9E+01	3.7E-04	1.5E+00	7.5E+01	3.0E+02	0.02	0.005
Aroclor 1254/1260	4.2E-01	1.9E-04	2.0E-01	4.8E-04	1.3E-01	3.2E-04	--	--	1.0E-03	1.4E-01	6.9E-01	0.007	0.001
Ortho-PCB Mammalian TEC	--	--	5.1E-05	1.3E-07	6.3E-05	1.6E-07	--	--	2.8E-07	1.0E-06	1.0E-05	0.3	0.03
2,3,7,8-TCDD Mammalian Dioxin TEC	3.6E-05	1.7E-08	1.1E-06	2.8E-09	2.6E-07	6.3E-10	2.4E-06	9.9E-12	2.0E-08	1.0E-06	1.0E-05	0.02	0.002
2,3,7,8-TCDD Mammalian Furan TEC	1.1E-04	5.2E-08	3.5E-06	8.7E-09	7.9E-07	2.0E-09	1.6E-06	6.5E-12	6.3E-08	1.0E-06	1.0E-05	0.06	0.006

Notes:
(1) Reasonable maximum exposure (RME) exposure point concentration (EPC) calculated as the 95% UCL on the mean using USEPA ProUCL Statistical Software. If statistical analysis could not be conducted, the maximum concentration was used.
(2) Average daily dose (ADD) for the raccoon calculated as:

$ADD = ADD_{SED} + ADD_{CR} + ADD_{FI} + ADD_{SW}$

$ADD_{SED} = EPC_{SED} \times DFI \times F_{SED} \times (1/BW) \times AUF$

$ADD_{CR} = EPC_{CR} \times DFI \times F_{CR} \times (1/BW) \times AUF$

$ADD_{FI} = EPC_{FI} \times DFI \times F_{FI} \times (1/BW) \times AUF$

$ADD_{SW} = EPC_{SW} \times DWI \times (1/BW) \times 0.001$

where:

DFI = Daily food ingestion	320	grams/day dw
F_{SED} = Fraction of diet - sediment	0.094	fraction
F_{FI} = Fraction of diet - fish	0.5	fraction
F_{CR} = Fraction of diet - fiddler crabs	0.5	fraction
BW = Body weight	6,500	grams
AUF = Area use factor	0.10	fraction
DWI = Daily water ingestion	26.813	mL/day

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
RME = Reasonable maximum exposure
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SED = Sediment
CR = Crab (fiddler crab)
FI = Fish (mummichog)
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
mg/L = milligram per liter
dw = dry weight
bw = body weight
TRV = Toxicity reference value
"--" = Value not available/calculated

Table 24
Final Baseline Ecological Risk Assessment
CT Risk Characterization for South Branch Creek - Raccoon
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	Sediment		Fiddler Crab		Mummichog		Surface Water		Total ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SED} (1) mg/kg dw	ADD_{SED} (2) mg/kg_{bw}-day	EPC_{CR} (1) mg/kg dw	ADD_{CR} (2) mg/kg_{bw}-day	EPC_{FI} (1) mg/kg dw	ADD_{FI} (2) mg/kg_{bw}-day	EPC_{SW} (1) µg/L	ADD_{SW} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Arsenic	2.6E+02	1.2E-01	1.5E+01	3.7E-02	5.8E+00	1.4E-02	4.1E+01	1.7E-04	1.7E-01	1.0E+00	4.6E+00	0.2	0.04
Barium	5.8E+03	2.7E+00	1.1E+03	2.6E+00	1.8E+02	4.4E-01	3.2E+02	1.3E-03	5.7E+00	5.2E+01	8.3E+01	0.1	0.07
Chromium	1.2E+02	5.6E-02	1.8E+01	4.4E-02	9.5E-01	2.3E-03	6.6E+00	2.7E-05	1.0E-01	2.4E+00	5.8E+01	0.04	0.002
Chromium, Hexavalent	2.6E+00	1.2E-03	--	--	--	--	--	--	1.2E-03	9.2E+00	3.8E+01	0.0001	0.00003
Copper	2.1E+02	9.9E-02	1.4E+02	3.4E-01	1.5E+01	3.7E-02	--	--	4.8E-01	5.6E+00	8.3E+01	0.09	0.006
Iron	3.3E+04	1.5E+01	1.4E+03	3.5E+00	2.6E+02	6.3E-01	1.3E+03	5.3E-03	2.0E+01	--	--	--	--
Lead	4.2E+02	1.9E-01	1.3E+01	3.3E-02	2.2E+00	5.4E-03	8.5E+00	3.5E-05	2.3E-01	4.7E+00	1.9E+02	0.05	0.001
Manganese	2.5E+02	1.2E-01	4.1E+01	1.0E-01	2.4E+01	5.9E-02	1.1E+02	4.7E-04	2.7E-01	5.2E+01	1.5E+02	0.005	0.002
Mercury	3.2E+02	1.5E-01	1.2E+01	2.9E-02	2.6E+00	6.3E-03	4.3E+00	1.8E-05	1.8E-01	1.0E+00	1.0E+01	0.2	0.02
Methyl mercury	3.2E-02	1.5E-05	2.9E-01	7.1E-04	6.8E-01	1.7E-03	5.5E-03	2.3E-08	2.4E-03	3.2E-02	1.6E-01	0.07	0.01
Vanadium	4.2E+01	2.0E-02	2.5E+00	6.3E-03	9.0E-01	2.2E-03	--	--	2.8E-02	4.2E+00	9.4E+00	0.007	0.003
Zinc	1.2E+03	5.7E-01	9.9E+01	2.4E-01	1.7E+02	4.1E-01	3.6E+01	1.5E-04	1.2E+00	7.5E+01	3.0E+02	0.02	0.004
Aroclor 1254/1260	1.8E-01	8.4E-05	8.5E-02	2.1E-04	5.7E-02	1.4E-04	--	--	4.3E-04	1.4E-01	6.9E-01	0.003	0.0006
Ortho-PCB Mammalian TEC	--	--	2.3E-05	5.7E-08	1.7E-05	4.3E-08	--	--	9.9E-08	1.0E-06	1.0E-05	0.1	0.01
2,3,7,8-TCDD Mammalian Dioxin TEC	1.3E-05	6.1E-09	4.2E-07	1.0E-09	9.4E-08	2.3E-10	2.4E-06	9.9E-12	7.4E-09	1.0E-06	1.0E-05	0.007	0.0007
2,3,7,8-TCDD Mammalian Furan TEC	6.6E-05	3.1E-08	2.1E-06	5.2E-09	4.7E-07	1.2E-09	1.6E-06	6.5E-12	3.7E-08	1.0E-06	1.0E-05	0.04	0.004

Notes:
(1) Central tendency (CT) exposure point concentration (EPC) calculated as the arithmetic mean, assuming one-half the method detection limit (MDL) for non-detect results.
(2) Average daily dose (ADD) for the raccoon calculated as:

$ADD = ADD_{SED} + ADD_{CR} + ADD_{FI} + ADD_{SW}$

$ADD_{SED} = EPC_{SED} \times DFI \times F_{SED} \times (1/BW) \times AUF$

$ADD_{CR} = EPC_{CR} \times DFI \times F_{CR} \times (1/BW) \times AUF$

$ADD_{FI} = EPC_{FI} \times DFI \times F_{FI} \times (1/BW) \times AUF$

$ADD_{SW} = EPC_{SW} \times DWI \times (1/BW) \times 0.001$

where:

DFI = Daily food ingestion	320	grams/day dw
F_{SED} = Fraction of diet - sediment	0.094	fraction
F_{FI} = Fraction of diet - fish	0.5	fraction
F_{CR} = Fraction of diet - fiddler crabs	0.5	fraction
BW = Body weight	6,500	grams
AUF = Area use factor	0.10	fraction
DWI = Daily water ingestion	26.813	mL/day

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
CT = Central tendency
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SED = Sediment
CR = Crab (fiddler crab)
FI = Fish (mummichog)
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
mg/L = milligram per liter
dw = dry weight
bw = body weight
TRV = Toxicity reference value
"--" = Value not available/calculated

Table 25
Final Baseline Ecological Risk Assessment
RME Risk Characterization for South Branch Creek - Mink
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	Sediment		Fiddler Crab		Mummichog		Surface Water		Total ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SED} (1) mg/kg dw	ADD_{SED} (2) mg/kg_{bw}-day	EPC_{CR} (1) mg/kg dw	ADD_{CR} (2) mg/kg_{bw}-day	EPC_{FI} (1) mg/kg dw	ADD_{FI} (2) mg/kg_{bw}-day	EPC_{SW} (1) µg/L	ADD_{SW} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Arsenic	3.9E+02	1.3E-01	3.5E+01	2.8E-02	9.1E+00	6.5E-02	1.0E+02	5.4E-04	2.3E-01	1.0E+00	4.6E+00	0.2	0.05
Barium	7.1E+03	2.4E+00	2.2E+03	1.7E+00	6.1E+02	4.4E+00	5.1E+02	2.7E-03	8.6E+00	5.2E+01	8.3E+01	0.2	0.1
Chromium	1.4E+02	4.8E-02	2.4E+01	1.9E-02	1.3E+00	9.2E-03	1.3E+01	6.8E-05	7.6E-02	2.4E+00	5.8E+01	0.03	0.001
Chromium, Hexavalent	3.9E+00	1.3E-03	--	--	--	--	--	--	1.3E-03	9.2E+00	3.8E+01	0.0001	0.00003
Copper	3.2E+02	1.1E-01	1.6E+02	1.3E-01	1.8E+01	1.3E-01	--	--	3.7E-01	5.6E+00	8.3E+01	0.07	0.004
Iron	3.8E+04	1.3E+01	1.7E+03	1.3E+00	3.3E+02	2.4E+00	2.9E+03	1.5E-02	1.7E+01	--	--	--	--
Lead	5.3E+02	1.8E-01	2.0E+01	1.6E-02	3.1E+00	2.2E-02	2.0E+01	1.0E-04	2.2E-01	4.7E+00	1.9E+02	0.05	0.001
Manganese	2.9E+02	1.0E-01	5.0E+01	4.0E-02	2.7E+01	1.9E-01	1.8E+02	9.6E-04	3.4E-01	5.2E+01	1.5E+02	0.007	0.002
Mercury	6.3E+02	2.2E-01	3.0E+01	2.4E-02	5.4E+00	3.9E-02	8.2E+00	4.3E-05	2.8E-01	1.0E+00	1.0E+01	0.3	0.03
Methyl mercury	4.1E-02	1.4E-05	3.5E-01	2.8E-04	1.0E+00	7.5E-03	2.0E-02	1.0E-07	7.8E-03	3.2E-02	1.6E-01	0.2	0.05
Vanadium	4.9E+01	1.7E-02	2.8E+00	2.3E-03	1.1E+00	7.6E-03	--	--	2.7E-02	4.2E+00	9.4E+00	0.006	0.003
Zinc	1.6E+03	5.4E-01	1.2E+02	9.4E-02	1.8E+02	1.3E+00	8.9E+01	4.7E-04	1.9E+00	7.5E+01	3.0E+02	0.03	0.006
Aroclor 1254/1260	4.2E-01	1.4E-04	2.0E-01	1.6E-04	1.3E-01	9.4E-04	--	--	1.2E-03	1.4E-01	6.9E-01	0.009	0.002
Ortho-PCB Mammalian TEC	--	--	5.1E-05	4.1E-08	6.3E-05	4.6E-07	--	--	5.0E-07	1.0E-06	1.0E-05	0.5	0.05
2,3,7,8-TCDD Mammalian Dioxin TEC	3.6E-05	1.2E-08	1.1E-06	9.1E-10	2.6E-07	1.8E-09	2.4E-06	1.3E-11	1.5E-08	1.0E-06	1.0E-05	0.02	0.002
2,3,7,8-TCDD Mammalian Furan TEC	1.1E-04	3.9E-08	3.5E-06	2.8E-09	7.9E-07	5.7E-09	1.6E-06	8.2E-12	4.7E-08	1.0E-06	1.0E-05	0.05	0.005

Notes:
(1) Reasonable maximum exposure (RME) exposure point concentration (EPC) calculated as the 95% UCL on the mean using USEPA ProUCL Statistical Software. If statistical analysis could not be conducted, the maximum concentration was used.
(2) Average daily dose (ADD) for the mink calculated as:

$ADD = ADD_{SED} + ADD_{CR} + ADD_{FI} + ADD_{SW}$

$ADD_{SED} = EPC_{SED} \times DFI \times F_{SED} \times (1/BW) \times AUF$

$ADD_{CR} = EPC_{CR} \times DFI \times F_{CR} \times (1/BW) \times AUF$

$ADD_{FI} = EPC_{FI} \times DFI \times F_{FI} \times (1/BW) \times AUF$

$ADD_{SW} = EPC_{SW} \times DWI \times (1/BW) \times 0.001$

where:

DFI = Daily food ingestion	49	grams/day dw
F_{SED} = Fraction of diet - sediment	0.043	fraction
F_{FI} = Fraction of diet - fish	0.9	fraction
F_{CR} = Fraction of diet - fiddler crabs	0.1	fraction
BW = Body weight	1,020	grams
AUF = Area use factor	0.17	fraction
DWI = Daily water ingestion	5.327	mL/day

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
RME = Reasonable maximum exposure
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SED = Sediment
CR = Crab (fiddler crab)
FI = Fish (mummichog)
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
mg/L = milligram per liter
dw = dry weight
bw = body weight
TRV = Toxicity reference value
"--" = Value not available/calculated

Table 26
Final Baseline Ecological Risk Assessment
CT Risk Characterization for South Branch Creek - Mink
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	Sediment		Fiddler Crab		Mummichog		Surface Water		Total ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SED} (1) mg/kg dw	ADD_{SED} (2) mg/kg_{bw}-day	EPC_{CR} (1) mg/kg dw	ADD_{CR} (2) mg/kg_{bw}-day	EPC_{FI} (1) mg/kg dw	ADD_{FI} (2) mg/kg_{bw}-day	EPC_{SW} (1) µg/L	ADD_{SW} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Arsenic	2.6E+02	8.8E-02	1.5E+01	1.2E-02	5.8E+00	4.2E-02	4.1E+01	2.1E-04	1.4E-01	1.0E+00	4.6E+00	0.1	0.03
Barium	5.8E+03	2.0E+00	1.1E+03	8.4E-01	1.8E+02	1.3E+00	3.2E+02	1.7E-03	4.1E+00	5.2E+01	8.3E+01	0.08	0.05
Chromium	1.2E+02	4.2E-02	1.8E+01	1.4E-02	9.5E-01	6.8E-03	6.6E+00	3.5E-05	6.3E-02	2.4E+00	5.8E+01	0.03	0.001
Chromium, Hexavalent	2.6E+00	9.0E-04	--	--	--	--	--	--	9.0E-04	9.2E+00	3.8E+01	0.0001	0.00002
Copper	2.1E+02	7.3E-02	1.4E+02	1.1E-01	1.5E+01	1.1E-01	--	--	2.9E-01	5.6E+00	8.3E+01	0.05	0.004
Iron	3.3E+04	1.2E+01	1.4E+03	1.1E+00	2.6E+02	1.8E+00	1.3E+03	6.7E-03	1.4E+01	--	--	--	--
Lead	4.2E+02	1.4E-01	1.3E+01	1.1E-02	2.2E+00	1.6E-02	8.5E+00	4.4E-05	1.7E-01	4.7E+00	1.9E+02	0.04	0.0009
Manganese	2.5E+02	8.6E-02	4.1E+01	3.3E-02	2.4E+01	1.7E-01	1.1E+02	5.9E-04	2.9E-01	5.2E+01	1.5E+02	0.006	0.002
Mercury	3.2E+02	1.1E-01	1.2E+01	9.6E-03	2.6E+00	1.8E-02	4.3E+00	2.2E-05	1.4E-01	1.0E+00	1.0E+01	0.1	0.01
Methyl mercury	3.2E-02	1.1E-05	2.9E-01	2.3E-04	6.8E-01	4.9E-03	5.5E-03	2.9E-08	5.1E-03	3.2E-02	1.6E-01	0.2	0.03
Vanadium	4.2E+01	1.5E-02	2.5E+00	2.0E-03	9.0E-01	6.5E-03	--	--	2.3E-02	4.2E+00	9.4E+00	0.006	0.002
Zinc	1.2E+03	4.2E-01	9.9E+01	7.9E-02	1.7E+02	1.2E+00	3.6E+01	1.9E-04	1.7E+00	7.5E+01	3.0E+02	0.02	0.006
Aroclor 1254/1260	1.8E-01	6.3E-05	8.5E-02	6.8E-05	5.7E-02	4.1E-04	--	--	5.4E-04	1.4E-01	6.9E-01	0.004	0.0008
Ortho-PCB Mammalian TEC	--	--	2.3E-05	1.8E-08	1.7E-05	1.2E-07	--	--	1.4E-07	1.0E-06	1.0E-05	0.1	0.01
2,3,7,8-TCDD Mammalian Dioxin TEC	1.3E-05	4.6E-09	4.2E-07	3.3E-10	9.4E-08	6.8E-10	2.4E-06	1.3E-11	5.6E-09	1.0E-06	1.0E-05	0.006	0.0006
2,3,7,8-TCDD Mammalian Furan TEC	6.6E-05	2.3E-08	2.1E-06	1.7E-09	4.7E-07	3.4E-09	1.6E-06	8.2E-12	2.8E-08	1.0E-06	1.0E-05	0.03	0.003

Notes:
(1) Central tendency (CT) exposure point concentration (EPC) calculated as the arithmetic mean, assuming one-half the method detection limit (MDL) for non-detect results.
(2) Average daily dose (ADD) for the mink calculated as:

$ADD = ADD_{SED} + ADD_{CR} + ADD_{FI} + ADD_{SW}$

$ADD_{SED} = EPC_{SED} \times DFI \times F_{SED} \times (1/BW) \times AUF$

$ADD_{CR} = EPC_{CR} \times DFI \times F_{CR} \times (1/BW) \times AUF$

$ADD_{FI} = EPC_{FI} \times DFI \times F_{FI} \times (1/BW) \times AUF$

$ADD_{SW} = EPC_{SW} \times DWI \times (1/BW) \times 0.001$

where:

DFI = Daily food ingestion	49	grams/day dw
F_{SED} = Fraction of diet - sediment	0.043	fraction
F_{FI} = Fraction of diet - fish	0.9	fraction
F_{CR} = Fraction of diet - fiddler crabs	0.1	fraction
BW = Body weight	1,020	grams
AUF = Area use factor	0.17	fraction
DWI = Daily water ingestion	5.327	mL/day

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
CT = Central tendency
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SED = Sediment
CR = Crab (fiddler crab)
FI = Fish (mummichog)
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
mg/L = milligram per liter
dw = dry weight
bw = body weight
TRV = Toxicity reference value
"--" = Value not available/calculated

Table 27
Final Baseline Ecological Risk Assessment
RME Risk Characterization for South Branch Creek - Spotted Sandpiper
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	Sediment		Fiddler Crab		Mummichog		Surface Water		Total ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SED} (1) mg/kg dw	ADD_{SED} (2) mg/kg_{bw}-day	EPC_{CR} (1) mg/kg dw	ADD_{CR} (2) mg/kg_{bw}-day	EPC_{FI} (1) mg/kg dw	ADD_{FI} (2) mg/kg_{bw}-day	EPC_{SW} (1) µg/L	ADD_{SW} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Arsenic	3.9E+02	1.6E+01	3.5E+01	6.9E+00	9.1E+00	2.0E-01	1.0E+02	8.5E-04	2.3E+01	2.2E+00	4.5E+00	10	5
Barium	7.1E+03	2.8E+02	2.2E+03	4.3E+02	6.1E+02	1.3E+01	5.1E+02	4.2E-03	7.3E+02	2.1E+01	4.2E+01	30	20
Chromium	1.4E+02	5.6E+00	2.4E+01	4.7E+00	1.3E+00	2.8E-02	1.3E+01	1.1E-04	1.0E+01	2.7E+00	1.6E+01	4	0.7
Chromium, Hexavalent	3.9E+00	1.5E-01	--	--	--	--	--	--	1.5E-01	3.1E+00	1.3E+01	0.05	0.01
Copper	3.2E+02	1.2E+01	1.6E+02	3.2E+01	1.8E+01	4.0E-01	--	--	4.5E+01	4.1E+00	3.5E+01	10	1
Iron	3.8E+04	1.5E+03	1.7E+03	3.3E+02	3.3E+02	7.2E+00	2.9E+03	2.4E-02	1.8E+03	--	--	--	--
Lead	5.3E+02	2.1E+01	2.0E+01	3.9E+00	3.1E+00	6.7E-02	2.0E+01	1.6E-04	2.5E+01	1.6E+00	4.5E+01	20	0.6
Manganese	2.9E+02	1.2E+01	5.0E+01	9.8E+00	2.7E+01	5.9E-01	1.8E+02	1.5E-03	2.2E+01	1.8E+02	3.8E+02	0.1	0.06
Mercury	6.3E+02	2.5E+01	3.0E+01	6.0E+00	5.4E+00	1.2E-01	8.2E+00	6.8E-05	3.1E+01	4.5E-01	9.0E-01	70	30
Methyl mercury	4.1E-02	1.6E-03	3.5E-01	6.9E-02	1.0E+00	2.3E-02	2.0E-02	1.6E-07	9.4E-02	6.4E-03	6.4E-02	10	1
Vanadium	4.9E+01	1.9E+00	2.8E+00	5.6E-01	1.1E+00	2.3E-02	--	--	2.5E+00	3.4E-01	1.7E+00	7	1
Zinc	1.6E+03	6.2E+01	1.2E+02	2.3E+01	1.8E+02	3.9E+00	8.9E+01	7.3E-04	8.9E+01	6.6E+01	1.7E+02	1	0.5
Aroclor 1254/1260	4.2E-01	1.7E-02	2.0E-01	3.9E-02	1.3E-01	2.9E-03	--	--	5.8E-02	1.8E-01	1.8E+00	0.3	0.03
Ortho-PCB Avian TEC	--	--	1.5E-04	2.9E-05	2.0E-04	4.4E-06	--	--	3.3E-05	1.4E-05	1.4E-04	2	0.2
2,3,7,8-TCDD Avian Dioxin TEC	3.0E-05	1.2E-06	9.6E-07	1.9E-07	2.2E-07	4.7E-09	2.2E-06	1.8E-11	1.4E-06	1.4E-05	1.4E-04	0.1	0.01
2,3,7,8-TCDD Avian Furan TEC	3.7E-04	1.5E-05	1.2E-05	2.3E-06	2.6E-06	5.7E-08	5.2E-06	4.3E-11	1.7E-05	1.4E-05	1.4E-04	1	0.1

Notes:
(1) Reasonable maximum exposure (RME) exposure point concentration (EPC) calculated as the 95% UCL on the mean using USEPA ProUCL Statistical Software. If statistical analysis could not be conducted, the maximum concentration was used.
(2) Average daily dose (ADD) for the spotted sandpiper calculated as:

$ADD = ADD_{SED} + ADD_{CR} + ADD_{FI} + ADD_{SW}$

$ADD_{SED} = EPC_{SED} \times DFI \times F_{SED} \times (1/BW) \times AUF$

$ADD_{CR} = EPC_{CR} \times DFI \times F_{CR} \times (1/BW) \times AUF$

$ADD_{FI} = EPC_{FI} \times DFI \times F_{FI} \times (1/BW) \times AUF$

$ADD_{SW} = EPC_{SW} \times DWI \times (1/BW) \times 0.001$

where:

DFI = Daily food ingestion	9.3	grams/day dw
F_{SED} = Fraction of diet - sediment	0.18	fraction
F_{FI} = Fraction of diet - fish	0.1	fraction
F_{CR} = Fraction of diet - fiddler crabs	0.9	fraction
BW = Body weight	43	grams
AUF = Area use factor	1.0	fraction
DWI = Daily water ingestion	0.35063	mL/day

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
RME = Reasonable maximum exposure
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SED = Sediment
CR = Crab (fiddler crab)
FI = Fish (mummichog)
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
mg/L = milligram per liter
dw = dry weight
bw = body weight
TRV = Toxicity reference value
"--" = Value not available/calculated

Table 28
Final Baseline Ecological Risk Assessment
CT Risk Characterization for South Branch Creek - Spotted Sandpiper
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	Sediment		Fiddler Crab		Mummichog		Surface Water		Total ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SED} (1) mg/kg dw	ADD_{SED} (2) mg/kg_{bw}-day	EPC_{CR} (1) mg/kg dw	ADD_{CR} (2) mg/kg_{bw}-day	EPC_{FI} (1) mg/kg dw	ADD_{FI} (2) mg/kg_{bw}-day	EPC_{SW} (1) µg/L	ADD_{SW} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Arsenic	2.6E+02	1.0E+01	1.5E+01	2.9E+00	5.8E+00	1.3E-01	4.1E+01	3.4E-04	1.3E+01	2.2E+00	4.5E+00	6	3
Barium	5.8E+03	2.3E+02	1.1E+03	2.1E+02	1.8E+02	3.9E+00	3.2E+02	2.7E-03	4.4E+02	2.1E+01	4.2E+01	20	10
Chromium	1.2E+02	4.8E+00	1.8E+01	3.6E+00	9.5E-01	2.1E-02	6.6E+00	5.5E-05	8.4E+00	2.7E+00	1.6E+01	3	0.5
Chromium, Hexavalent	2.6E+00	1.0E-01	--	--	--	--	--	--	1.0E-01	3.1E+00	1.3E+01	0.03	0.008
Copper	2.1E+02	8.4E+00	1.4E+02	2.8E+01	1.5E+01	3.3E-01	--	--	3.6E+01	4.1E+00	3.5E+01	9	1
Iron	3.3E+04	1.3E+03	1.4E+03	2.8E+02	2.6E+02	5.6E+00	1.3E+03	1.1E-02	1.6E+03	--	--	--	--
Lead	4.2E+02	1.7E+01	1.3E+01	2.6E+00	2.2E+00	4.8E-02	8.5E+00	7.0E-05	1.9E+01	1.6E+00	4.5E+01	10	0.4
Manganese	2.5E+02	9.9E+00	4.1E+01	8.1E+00	2.4E+01	5.2E-01	1.1E+02	9.3E-04	1.8E+01	1.8E+02	3.8E+02	0.1	0.05
Mercury	3.2E+02	1.3E+01	1.2E+01	2.4E+00	2.6E+00	5.6E-02	4.3E+00	3.5E-05	1.5E+01	4.5E-01	9.0E-01	30	20
Methyl mercury	3.2E-02	1.3E-03	2.9E-01	5.7E-02	6.8E-01	1.5E-02	5.5E-03	4.5E-08	7.3E-02	6.4E-03	6.4E-02	10	1
Vanadium	4.2E+01	1.7E+00	2.5E+00	5.0E-01	9.0E-01	2.0E-02	--	--	2.2E+00	3.4E-01	1.7E+00	6	1
Zinc	1.2E+03	4.9E+01	9.9E+01	2.0E+01	1.7E+02	3.7E+00	3.6E+01	3.0E-04	7.2E+01	6.6E+01	1.7E+02	1	0.4
Aroclor 1254/1260	1.8E-01	7.2E-03	8.5E-02	1.7E-02	5.7E-02	1.2E-03	--	--	2.5E-02	1.8E-01	1.8E+00	0.1	0.01
Ortho-PCB Avian TEC	--	--	1.0E-04	2.0E-05	6.2E-05	1.4E-06	--	--	2.2E-05	1.4E-05	1.4E-04	2	0.2
2,3,7,8-TCDD Avian Dioxin TEC	1.1E-05	4.3E-07	3.4E-07	6.8E-08	7.7E-08	1.7E-09	2.2E-06	1.8E-11	5.0E-07	1.4E-05	1.4E-04	0.04	0.004
2,3,7,8-TCDD Avian Furan TEC	2.2E-04	8.7E-06	6.9E-06	1.4E-06	1.6E-06	3.4E-08	5.2E-06	4.3E-11	1.0E-05	1.4E-05	1.4E-04	0.7	0.07

Notes:
(1) Central tendency (CT) exposure point concentration (EPC) calculated as the arithmetic mean, assuming one-half the method detection limit (MDL) for non-detect results.
(2) Average daily dose (ADD) for the spotted sandpiper calculated as:

$ADD = ADD_{SED} + ADD_{CR} + ADD_{FI} + ADD_{SW}$

$ADD_{SED} = EPC_{SED} \times DFI \times F_{SED} \times (1/BW) \times AUF$

$ADD_{CR} = EPC_{CR} \times DFI \times F_{CR} \times (1/BW) \times AUF$

$ADD_{FI} = EPC_{FI} \times DFI \times F_{FI} \times (1/BW) \times AUF$

$ADD_{SW} = EPC_{SW} \times DWI \times (1/BW) \times 0.001$

where:

DFI = Daily food ingestion	9.3	grams/day dw
F_{SED} = Fraction of diet - sediment	0.18	fraction
F_{FI} = Fraction of diet - fish	0.1	fraction
F_{CR} = Fraction of diet - fiddler crabs	0.9	fraction
BW = Body weight	43	grams
AUF = Area use factor	1.0	fraction
DWI = Daily water ingestion	0.35063	mL/day

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
CT = Central tendency
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SED = Sediment
CR = Crab (fiddler crab)
FI = Fish (mummichog)
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
mg/L = milligram per liter
dw = dry weight
bw = body weight
TRV = Toxicity reference value
"--" = Value not available/calculated

Table 29
Final Baseline Ecological Risk Assessment
RME Risk Characterization for South Branch Creek - Great Blue Heron
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	Sediment		Fiddler Crab		Mummichog		Surface Water		Total ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SED} (1) mg/kg dw	ADD_{SED} (2) mg/kg_{bw}-day	EPC_{CR} (1) mg/kg dw	ADD_{CR} (2) mg/kg_{bw}-day	EPC_{FI} (1) mg/kg dw	ADD_{FI} (2) mg/kg_{bw}-day	EPC_{SW} (1) µg/L	ADD_{SW} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Arsenic	3.9E+02	5.9E-02	3.5E+01	2.6E-02	9.1E+00	6.2E-02	1.0E+02	2.3E-04	1.5E-01	2.2E+00	4.5E+00	0.07	0.03
Barium	7.1E+03	1.1E+00	2.2E+03	1.6E+00	6.1E+02	4.1E+00	5.1E+02	1.2E-03	6.9E+00	2.1E+01	4.2E+01	0.3	0.2
Chromium	1.4E+02	2.1E-02	2.4E+01	1.8E-02	1.3E+00	8.7E-03	1.3E+01	2.9E-05	4.8E-02	2.7E+00	1.6E+01	0.02	0.003
Chromium, Hexavalent	3.9E+00	5.8E-04	--	--	--	--	--	--	5.8E-04	3.1E+00	1.3E+01	0.0002	0.00005
Copper	3.2E+02	4.8E-02	1.6E+02	1.2E-01	1.8E+01	1.2E-01	--	--	2.9E-01	4.1E+00	3.5E+01	0.07	0.008
Iron	3.8E+04	5.7E+00	1.7E+03	1.2E+00	3.3E+02	2.2E+00	2.9E+03	6.6E-03	9.2E+00	--	--	--	--
Lead	5.3E+02	8.0E-02	2.0E+01	1.5E-02	3.1E+00	2.1E-02	2.0E+01	4.4E-05	1.2E-01	1.6E+00	4.5E+01	0.07	0.003
Manganese	2.9E+02	4.4E-02	5.0E+01	3.7E-02	2.7E+01	1.8E-01	1.8E+02	4.1E-04	2.7E-01	1.8E+02	3.8E+02	0.001	0.0007
Mercury	6.3E+02	9.5E-02	3.0E+01	2.3E-02	5.4E+00	3.7E-02	8.2E+00	1.9E-05	1.5E-01	4.5E-01	9.0E-01	0.3	0.2
Methyl mercury	4.1E-02	6.2E-06	3.5E-01	2.6E-04	1.0E+00	7.1E-03	2.0E-02	4.4E-08	7.4E-03	6.4E-03	6.4E-02	1	0.1
Vanadium	4.9E+01	7.3E-03	2.8E+00	2.1E-03	1.1E+00	7.2E-03	--	--	1.7E-02	3.4E-01	1.7E+00	0.05	0.01
Zinc	1.6E+03	2.4E-01	1.2E+02	8.9E-02	1.8E+02	1.2E+00	8.9E+01	2.0E-04	1.5E+00	6.6E+01	1.7E+02	0.02	0.009
Aroclor 1254/1260	4.2E-01	6.3E-05	2.0E-01	1.5E-04	1.3E-01	8.8E-04	--	--	1.1E-03	1.8E-01	1.8E+00	0.006	0.0006
Ortho-PCB Avian TEC	--	--	1.5E-04	1.1E-07	2.0E-04	1.4E-06	--	--	1.5E-06	1.4E-05	1.4E-04	0.1	0.01
2,3,7,8-TCDD Avian Dioxin TEC	3.0E-05	4.6E-09	9.6E-07	7.2E-10	2.2E-07	1.5E-09	2.2E-06	4.9E-12	6.8E-09	1.4E-05	1.4E-04	0.0005	0.00005
2,3,7,8-TCDD Avian Furan TEC	3.7E-04	5.5E-08	1.2E-05	8.7E-09	2.6E-06	1.8E-08	5.2E-06	1.2E-11	8.2E-08	1.4E-05	1.4E-04	0.006	0.0006

Notes:
(1) Reasonable maximum exposure (RME) exposure point concentration (EPC) calculated as the 95% UCL on the mean using USEPA ProUCL Statistical Software. If statistical analysis could not be conducted, the maximum concentration was used.
(2) Average daily dose (ADD) for the heron calculated as:

$ADD = ADD_{SED} + ADD_{CR} + ADD_{FI} + ADD_{SW}$

$ADD_{SED} = EPC_{SED} \times DFI \times F_{SED} \times (1/BW) \times AUF$

$ADD_{CR} = EPC_{CR} \times DFI \times F_{CR} \times (1/BW) \times AUF$

$ADD_{FI} = EPC_{FI} \times DFI \times F_{FI} \times (1/BW) \times AUF$

$ADD_{SW} = EPC_{SW} \times DWI \times (1/BW) \times 0.001$

where:

DFI = Daily food ingestion	84	grams/day dw
F_{SED} = Fraction of diet - sediment	0.02	fraction
F_{FI} = Fraction of diet - fish	0.9	fraction
F_{CR} = Fraction of diet - fiddler crabs	0.1	fraction
BW = Body weight	2,336	grams
AUF = Area use factor	0.21	fraction
DWI = Daily water ingestion	5.257	mL/day

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
RME = Reasonable maximum exposure
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SED = Sediment
CR = Crab (fiddler crab)
FI = Fish (mummichog)
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
mg/L = milligram per liter
dw = dry weight
bw = body weight
TRV = Toxicity reference value
"--" = Value not available/calculated

Table 30
Final Baseline Ecological Risk Assessment
CT Risk Characterization for South Branch Creek - Great Blue Heron
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	Sediment		Fiddler Crab		Mummichog		Surface Water		Total ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SED} (1) mg/kg dw	ADD_{SED} (2) mg/kg_{bw}-day	EPC_{CR} (1) mg/kg dw	ADD_{CR} (2) mg/kg_{bw}-day	EPC_{FI} (1) mg/kg dw	ADD_{FI} (2) mg/kg_{bw}-day	EPC_{SW} (1) µg/L	ADD_{SW} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Arsenic	2.6E+02	3.9E-02	1.5E+01	1.1E-02	5.8E+00	3.9E-02	4.1E+01	9.2E-05	9.0E-02	2.2E+00	4.5E+00	0.04	0.02
Barium	5.8E+03	8.7E-01	1.1E+03	8.0E-01	1.8E+02	1.2E+00	3.2E+02	7.3E-04	2.9E+00	2.1E+01	4.2E+01	0.1	0.07
Chromium	1.2E+02	1.8E-02	1.8E+01	1.4E-02	9.5E-01	6.5E-03	6.6E+00	1.5E-05	3.9E-02	2.7E+00	1.6E+01	0.01	0.002
Chromium, Hexavalent	2.6E+00	4.0E-04	--	--	--	--	--	--	4.0E-04	3.1E+00	1.3E+01	0.0001	0.00003
Copper	2.1E+02	3.2E-02	1.4E+02	1.1E-01	1.5E+01	1.0E-01	--	--	2.4E-01	4.1E+00	3.5E+01	0.06	0.007
Iron	3.3E+04	5.1E+00	1.4E+03	1.1E+00	2.6E+02	1.7E+00	1.3E+03	2.9E-03	7.9E+00	--	--	--	--
Lead	4.2E+02	6.3E-02	1.3E+01	1.0E-02	2.2E+00	1.5E-02	8.5E+00	1.9E-05	8.8E-02	1.6E+00	4.5E+01	0.05	0.002
Manganese	2.5E+02	3.8E-02	4.1E+01	3.1E-02	2.4E+01	1.6E-01	1.1E+02	2.5E-04	2.3E-01	1.8E+02	3.8E+02	0.001	0.0006
Mercury	3.2E+02	4.9E-02	1.2E+01	9.0E-03	2.6E+00	1.7E-02	4.3E+00	9.7E-06	7.5E-02	4.5E-01	9.0E-01	0.2	0.08
Methyl mercury	3.2E-02	4.8E-06	2.9E-01	2.2E-04	6.8E-01	4.6E-03	5.5E-03	1.2E-08	4.8E-03	6.4E-03	6.4E-02	0.8	0.08
Vanadium	4.2E+01	6.4E-03	2.5E+00	1.9E-03	9.0E-01	6.1E-03	--	--	1.4E-02	3.4E-01	1.7E+00	0.04	0.009
Zinc	1.2E+03	1.8E-01	9.9E+01	7.5E-02	1.7E+02	1.1E+00	3.6E+01	8.2E-05	1.4E+00	6.6E+01	1.7E+02	0.02	0.008
Aroclor 1254/1260	1.8E-01	2.7E-05	8.5E-02	6.5E-05	5.7E-02	3.9E-04	--	--	4.8E-04	1.8E-01	1.8E+00	0.003	0.0003
Ortho-PCB Avian TEC	--	--	1.0E-04	7.8E-08	6.2E-05	4.2E-07	--	--	5.0E-07	1.4E-05	1.4E-04	0.04	0.004
2,3,7,8-TCDD Avian Dioxin TEC	1.1E-05	1.6E-09	3.4E-07	2.6E-10	7.7E-08	5.2E-10	2.2E-06	4.9E-12	2.4E-09	1.4E-05	1.4E-04	0.0002	0.00002
2,3,7,8-TCDD Avian Furan TEC	2.2E-04	3.3E-08	6.9E-06	5.2E-09	1.6E-06	1.1E-08	5.2E-06	1.2E-11	4.9E-08	1.4E-05	1.4E-04	0.003	0.0003

Notes:
(1) Central tendency (CT) exposure point concentration (EPC) calculated as the arithmetic mean, assuming one-half the method detection limit (MDL) for non-detect results.
(2) Average daily dose (ADD) for the heron calculated as:

$ADD = ADD_{SED} + ADD_{CR} + ADD_{FI} + ADD_{SW}$

$ADD_{SED} = EPC_{SED} \times DFI \times F_{SED} \times (1/BW) \times AUF$

$ADD_{CR} = EPC_{CR} \times DFI \times F_{CR} \times (1/BW) \times AUF$

$ADD_{FI} = EPC_{FI} \times DFI \times F_{FI} \times (1/BW) \times AUF$

$ADD_{SW} = EPC_{SW} \times DWI \times (1/BW) \times 0.001$

where:

DFI = Daily food ingestion	84	grams/day dw
F_{SED} = Fraction of diet - sediment	0.02	fraction
F_{FI} = Fraction of diet - fish	0.9	fraction
F_{CR} = Fraction of diet - fiddler crabs	0.1	fraction
BW = Body weight	2,336	grams
AUF = Area use factor	0.21	fraction
DWI = Daily water ingestion	5.257	mL/day

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
CT = Central tendency
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SED = Sediment
CR = Crab (fiddler crab)
FI = Fish (mummichog)
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
mg/L = milligram per liter
dw = dry weight
bw = body weight
TRV = Toxicity reference value
"--" = Value not available/calculated

Table 31
Final Baseline Ecological Risk Assessment
Risk Characterization Summary for South Branch Creek Wildlife Receptors
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

South Branch Creek COPECs	Raccoon HQ				Mink HQ				Spotted Sandpiper HQ				Great Blue Heron HQ			
	RME		CT		RME		CT		RME		CT		RME		CT	
	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Arsenic	0.3	0.06	0.2	0.04	0.2	0.05	0.1	0.03	10	5	6	3	0.07	0.03	0.04	0.02
Barium	0.2	0.1	0.1	0.07	0.2	0.1	0.08	0.05	30	20	20	10	0.3	0.2	0.1	0.07
Chromium	0.05	0.002	0.04	0.002	0.03	0.001	0.03	0.001	4	0.7	3	0.5	0.02	0.003	0.01	0.002
Chromium, Hexavalent	0.0002	0.00005	0.0001	0.00003	0.0001	0.00003	0.0001	0.00002	0.05	0.01	0.03	0.008	0.0002	0.00005	0.0001	0.00003
Copper	0.1	0.007	0.09	0.006	0.07	0.004	0.05	0.004	10	1	9	1	0.07	0.008	0.06	0.007
Iron	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	0.06	0.002	0.05	0.001	0.05	0.001	0.04	0.0009	20	0.6	10	0.4	0.07	0.003	0.05	0.002
Manganese	0.006	0.002	0.005	0.002	0.007	0.002	0.006	0.002	0.1	0.06	0.1	0.05	0.001	0.0007	0.001	0.0006
Mercury	0.4	0.04	0.2	0.02	0.3	0.03	0.1	0.01	70	30	30	20	0.3	0.2	0.2	0.08
Methyl mercury	0.1	0.02	0.07	0.01	0.2	0.05	0.2	0.03	10	1	10	1	1	0.1	0.8	0.08
Vanadium	0.008	0.003	0.007	0.003	0.006	0.003	0.006	0.002	7	1	6	1	0.05	0.01	0.04	0.009
Zinc	0.02	0.005	0.02	0.004	0.03	0.006	0.02	0.006	1	0.5	1	0.4	0.02	0.009	0.02	0.008
Aroclor 1254/1260	0.007	0.001	0.003	0.0006	0.009	0.002	0.004	0.0008	0.3	0.03	0.1	0.01	0.006	0.0006	0.003	0.0003
Ortho-PCB Mammalian TEC	0.3	0.03	0.1	0.01	0.5	0.05	0.1	0.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,3,7,8-TCDD Mammalian Dioxin TEC	0.02	0.002	0.007	0.0007	0.02	0.002	0.006	0.0006	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2,3,7,8-TCDD Mammalian Furan TEC	0.06	0.006	0.04	0.004	0.05	0.005	0.03	0.003	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ortho-PCB Avian TEC	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	0.2	2	0.2	0.1	0.01	0.04	0.004
2,3,7,8-TCDD Avian Dioxin TEC	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.1	0.01	0.04	0.004	0.0005	0.00005	0.0002	0.00002
2,3,7,8-TCDD Avian Furan TEC	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	0.1	0.7	0.07	0.006	0.0006	0.003	0.0003

Definitions:
COPEC = Constituent of potential ecological concern
HQ = Hazard quotient
RME = Reasonable maximum exposure
CT = Central tendency
EPC = Exposure point concentration
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TEC = Toxic equivalency concentration
PCB= Polychlorinated biphenyl
TCDD = Tetrachlorodibenzo-p-dioxin
"--" = Value not calculated
n/a = Not applicable
Shading indicates HQ > 1

Table 32
Final Baseline Ecological Risk Assessment
RME Risk Characterization for the Upland Area - Short-tailed Shrew
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland Area COPECs	Soil		Invertebrate		ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SO} (1) mg/kg dw	ADD_{SO} (2) mg/kg_{bw}-day	EPC_{INV} (1) mg/kg dw	ADD_{INV} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Antimony	8.7E+00	3.3E-02	8.7E+00	1.1E+00	1.1E+00	5.9E-02	2.8E+00	20	0.4
Arsenic	2.3E+01	8.8E-02	2.2E+00	2.8E-01	3.7E-01	1.0E+00	4.6E+00	0.4	0.08
Barium	2.0E+03	7.8E+00	1.8E+02	2.4E+01	3.1E+01	5.2E+01	8.3E+01	0.6	0.4
Beryllium	2.6E+00	1.0E-02	1.2E-01	1.5E-02	2.5E-02	5.3E-01	6.7E-01	0.05	0.04
Cadmium	5.9E+00	2.3E-02	3.4E+01	4.4E+00	4.4E+00	7.7E-01	6.9E+00	6	0.6
Chromium	6.5E+01	2.5E-01	2.0E+01	2.6E+00	2.8E+00	2.4E+00	5.8E+01	1	0.05
Chromium, Hexavalent	3.4E+00	1.3E-02	1.0E+00	1.3E-01	1.5E-01	9.2E+00	3.8E+01	0.02	0.004
Cobalt	6.0E+01	2.3E-01	7.3E+00	9.3E-01	1.2E+00	7.3E+00	1.9E+01	0.2	0.06
Lead	1.2E+03	4.6E+00	2.4E+02	3.1E+01	3.6E+01	4.7E+00	1.9E+02	8	0.2
Mercury	8.0E+02	3.1E+00	4.7E+00	6.0E-01	3.7E+00	1.0E+00	1.0E+01	4	0.4
Methyl Mercury	1.3E-01	4.8E-04	1.3E-01	1.6E-02	1.7E-02	3.2E-02	1.6E-01	0.50	0.10
Selenium	1.7E+00	6.6E-03	1.4E+00	1.8E-01	1.8E-01	1.4E-01	6.6E-01	1	0.3
Vanadium	5.1E+01	2.0E-01	1.6E+01	2.1E+00	2.3E+00	4.2E+00	9.4E+00	0.6	0.2
alpha-Chlordane	3.6E-03	1.4E-05	3.6E-03	4.6E-04	4.7E-04	4.6E+00	9.2E+00	0.00010	0.00005
Aroclor 1254/1260	3.0E+00	1.2E-02	3.0E+00	3.9E-01	4.0E-01	1.4E-01	6.9E-01	3	0.6
Hexachlorobenzene	4.4E+01	1.7E-01	2.4E+01	3.1E+00	3.3E+00	8.0E-02	2.9E-01	40	10
Trichloroethylene	3.8E+00	1.5E-02	3.8E+00	4.9E-01	5.0E-01	7.0E-01	7.0E+00	0.7	0.07

Notes:
(1) Reasonable maximum exposure (RME) exposure point concentration (EPC) calculated as the 95% UCL on the mean using USEPA ProUCL Statistical Software. If statistical analysis could not be conducted, the maximum concentration was used.
(2) Average daily dose (ADD) for the short-tailed shrew calculated as:

$ADD = ADD_{SO} + ADD_{INV}$

$ADD_{SO} = EPC_{SO} \times DFI \times F_{SO} \times (1/BW) \times AUF$

$ADD_{INV} = EPC_{INV} \times DFI \times F_{INV} \times (1/BW) \times AUF$

where:

DFI = Daily food ingestion	2.2	grams/day dw
F_{SO} = Fraction of diet - soil	0.03	fraction
F_{INV} = Fraction of diet - invertebrates	1.0	fraction
BW = Body weight	16.8	grams
AUF = Area use factor	1.0	fraction

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
RME = Reasonable maximum exposure
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SO = Soil
INV = Invertebrate
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
dw = dry weight
bw = body weight

Table 33
Final Baseline Ecological Risk Assessment
CT Risk Characterization for the Upland Area - Short-tailed Shrew
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland Area COPECs	Soil		Invertebrate		ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SO} (1) mg/kg dw	ADD_{SO} (2) mg/kg_{bw}-day	EPC_{INV} (1) mg/kg dw	ADD_{INV} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Antimony	5.3E+00	2.0E-02	5.3E+00	6.8E-01	7.0E-01	5.9E-02	2.8E+00	10	0.3
Arsenic	1.8E+01	6.8E-02	1.8E+00	2.4E-01	3.0E-01	1.0E+00	4.6E+00	0.3	0.07
Barium	1.4E+03	5.3E+00	1.2E+02	1.6E+01	2.1E+01	5.2E+01	8.3E+01	0.4	0.3
Beryllium	2.0E+00	7.5E-03	8.8E-02	1.1E-02	1.9E-02	5.3E-01	6.7E-01	0.04	0.03
Cadmium	3.1E+00	1.2E-02	2.1E+01	2.6E+00	2.6E+00	7.7E-01	6.9E+00	3	0.4
Chromium	5.0E+01	1.9E-01	1.5E+01	2.0E+00	2.2E+00	2.4E+00	5.8E+01	0.9	0.04
Chromium, Hexavalent	1.5E+00	5.9E-03	4.7E-01	6.1E-02	6.7E-02	9.2E+00	3.8E+01	0.007	0.002
Cobalt	4.2E+01	1.6E-01	5.1E+00	6.5E-01	8.1E-01	7.3E+00	1.9E+01	0.1	0.04
Lead	5.6E+02	2.1E+00	1.3E+02	1.7E+01	1.9E+01	4.7E+00	1.9E+02	4	0.1
Mercury	4.6E+02	1.8E+00	4.0E+00	5.2E-01	2.3E+00	1.0E+00	1.0E+01	2	0.2
Methyl Mercury	3.2E-02	1.2E-04	3.2E-02	4.1E-03	4.2E-03	3.2E-02	1.6E-01	0.10	0.03
Selenium	1.5E+00	5.6E-03	1.2E+00	1.6E-01	1.6E-01	1.4E-01	6.6E-01	1	0.2
Vanadium	4.9E+01	1.9E-01	1.6E+01	2.0E+00	2.2E+00	4.2E+00	9.4E+00	0.5	0.2
alpha-Chlordane	5.1E-03	2.0E-05	5.1E-03	6.6E-04	6.8E-04	4.6E+00	9.2E+00	0.00010	0.00007
Hexachlorobenzene	1.2E+01	4.4E-02	6.2E+00	8.0E-01	8.4E-01	8.0E-02	2.9E-01	10	3
Aroclor 1254/1260	1.8E+00	7.1E-03	1.8E+00	2.4E-01	2.4E-01	1.4E-01	6.9E-01	2	0.4
Trichloroethylene	8.6E-01	3.3E-03	8.6E-01	1.1E-01	1.1E-01	7.0E-01	7.0E+00	0.2	0.02

Notes:
(1) Central tendency (CT) exposure point concentration (EPC) calculated as the arithmetic mean using one-half the detection limit for non-detect results.
(2) Average daily dose (ADD) for the short-tailed shrew calculated as:

$ADD = ADD_{SO} + ADD_{INV}$

$ADD_{SO} = EPC_{SO} \times DFI \times F_{SO} \times (1/BW) \times AUF$

$ADD_{INV} = EPC_{INV} \times DFI \times F_{INV} \times (1/BW) \times AUF$

where:

DFI = Daily food ingestion	2.2	grams/day dw
F_{SO} = Fraction of diet - soil	0.03	fraction
F_{INV} = Fraction of diet - invertebrates	1.0	fraction
BW = Body weight	16.8	grams
AUF = Area use factor	1.0	fraction

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
CT = Central tendency
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SO = Soil
INV = Invertebrate
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
dw = dry weight
bw = body weight

Table 34
Final Baseline Ecological Risk Assessment
RME Risk Characterization for the Upland Area - Red Fox
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland Area COPECs	Soil		Small Mammal		ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SO} (1) mg/kg dw	ADD_{SO} (2) mg/kg_{bw}-day	EPC_{SM} (1) mg/kg dw	ADD_{SM} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Antimony	8.7E+00	9.2E-04	4.3E-01	1.6E-03	2.6E-03	5.9E-02	2.8E+00	0.04	0.0009
Arsenic	2.3E+01	2.4E-03	1.0E-01	3.8E-04	2.8E-03	1.0E+00	4.6E+00	0.003	0.0006
Barium	2.0E+03	2.1E-01	1.4E+00	5.2E-03	2.2E-01	5.2E+01	8.3E+01	0.004	0.003
Beryllium	2.6E+00	2.8E-04	5.9E-03	2.2E-05	3.0E-04	5.3E-01	6.7E-01	0.0006	0.0004
Cadmium	5.9E+00	6.3E-04	6.6E-01	2.5E-03	3.1E-03	7.7E-01	6.9E+00	0.004	0.0005
Chromium	6.5E+01	6.9E-03	5.0E+00	1.9E-02	2.6E-02	2.4E+00	5.8E+01	0.01	0.0004
Chromium, Hexavalent	3.4E+00	3.6E-04	5.7E-01	2.1E-03	2.5E-03	9.2E+00	3.8E+01	0.0003	0.00007
Cobalt	6.0E+01	6.3E-03	2.4E+00	9.1E-03	1.5E-02	7.3E+00	1.9E+01	0.002	0.0008
Lead	1.2E+03	1.3E-01	2.5E+01	9.3E-02	2.2E-01	4.7E+00	1.9E+02	0.05	0.001
Mercury	8.0E+02	8.5E-02	4.3E+01	1.6E-01	2.5E-01	1.0E+00	1.0E+01	0.2	0.02
Methyl Mercury	1.3E-01	1.3E-05	1.3E-01	4.7E-04	4.9E-04	3.2E-02	1.6E-01	0.02	0.00
Selenium	1.7E+00	1.8E-04	8.1E-01	3.1E-03	3.2E-03	1.4E-01	6.6E-01	0.02	0.005
Vanadium	5.1E+01	5.4E-03	6.3E-01	2.4E-03	7.8E-03	4.2E+00	9.4E+00	0.002	0.0008
alpha-Chlordane	3.6E-03	3.8E-07	4.3E-03	1.6E-05	1.7E-05	4.6E+00	9.2E+00	0.000004	0.000002
Hexachlorobenzene	4.4E+01	4.7E-03	2.9E+01	1.1E-01	1.1E-01	8.0E-02	2.9E-01	1	0.4
Aroclor 1254/1260	3.0E+00	3.2E-04	3.0E+00	1.1E-02	1.2E-02	1.4E-01	6.9E-01	0.08	0.02
Trichloroethylene	3.8E+00	4.0E-04	--	--	4.0E-04	7.0E-01	7.0E+00	0.0006	0.00006

Notes:
(1) Reasonable maximum exposure (RME) exposure point concentration (EPC) calculated as the 95% UCL on the mean using USEPA ProUCL Statistical Software. If statistical analysis could not be conducted, the maximum concentration was used.
(2) Average daily dose (ADD) for the red fox calculated as:

$ADD = ADD_{SO} + ADD_{SM}$

$ADD_{SO} = EPC_{SO} \times DFI \times F_{SO} \times (1/BW) \times AUF$

$ADD_{SM} = EPC_{SM} \times DFI \times F_{SM} \times (1/BW) \times AUF$

where:

DFI = Daily food ingestion	172	grams/day dw
F_{SO} = Fraction of diet - soil	0.028	fraction
F_{SM} = Fraction of diet - small mammals	1.0	fraction
BW = Body weight	4,535	grams
AUF = Area use factor	0.10	fraction

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
RME = Reasonable maximum exposure
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SO = Soil
SM = Small mammal
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
dw = dry weight
bw = body weight
"--" = Value not available/calculated

Table 35
Final Baseline Ecological Risk Assessment
CT Risk Characterization for the Upland Area - Red Fox
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland Area COPECs	Soil		Small Mammal		ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SO} (1) mg/kg dw	ADD_{SO} (2) mg/kg_{bw}-day	EPC_{SM} (1) mg/kg dw	ADD_{SM} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Antimony	5.3E+00	5.6E-04	2.6E-01	1.0E-03	1.6E-03	5.9E-02	2.8E+00	0.03	0.0006
Arsenic	1.8E+01	1.9E-03	8.2E-02	3.1E-04	2.2E-03	1.0E+00	4.6E+00	0.002	0.0005
Barium	1.4E+03	1.5E-01	9.4E-01	3.5E-03	1.5E-01	5.2E+01	8.3E+01	0.003	0.002
Beryllium	2.0E+00	2.1E-04	4.4E-03	1.7E-05	2.2E-04	5.3E-01	6.7E-01	0.0004	0.0003
Cadmium	3.1E+00	3.3E-04	4.9E-01	1.8E-03	2.2E-03	7.7E-01	6.9E+00	0.003	0.0003
Chromium	5.0E+01	5.3E-03	4.1E+00	1.6E-02	2.1E-02	2.4E+00	5.8E+01	0.009	0.0004
Chromium, Hexavalent	1.5E+00	1.6E-04	3.2E-01	1.2E-03	1.4E-03	9.2E+00	3.8E+01	0.0001	0.00004
Cobalt	4.2E+01	4.4E-03	1.5E+00	5.7E-03	1.0E-02	7.3E+00	1.9E+01	0.001	0.0005
Lead	5.6E+02	5.9E-02	1.8E+01	6.7E-02	1.3E-01	4.7E+00	1.9E+02	0.03	0.0007
Mercury	4.6E+02	4.9E-02	2.5E+01	9.4E-02	1.4E-01	1.0E+00	1.0E+01	0.1	0.01
Methyl Mercury	3.2E-02	3.4E-06	3.2E-02	1.2E-04	1.2E-04	3.2E-02	1.6E-01	0.00	0.00
Selenium	1.5E+00	1.6E-04	7.6E-01	2.9E-03	3.0E-03	1.4E-01	6.6E-01	0.02	0.005
Vanadium	4.9E+01	5.2E-03	6.0E-01	2.3E-03	7.4E-03	4.2E+00	9.4E+00	0.002	0.0008
alpha-Chlordane	5.1E-03	5.4E-07	6.2E-03	2.3E-05	2.4E-05	4.6E+00	9.2E+00	0.00001	0.000003
Hexachlorobenzene	1.2E+01	1.2E-03	7.5E+00	2.8E-02	2.9E-02	8.0E-02	2.9E-01	0.4	0.1
Aroclor 1254/1260	1.8E+00	2.0E-04	1.8E+00	7.0E-03	7.2E-03	1.4E-01	6.9E-01	0.05	0.01
Trichloroethylene	8.6E-01	9.1E-05	--	--	9.1E-05	7.0E-01	7.0E+00	0.0001	0.00001

Notes:
(1) Central tendency (CT) exposure point concentration (EPC) calculated as the arithmetic mean using one-half the detection limit for non-detect results.
(2) Average daily dose (ADD) for the red fox calculated as:

$ADD = ADD_{SO} + ADD_{SM}$

$ADD_{SO} = EPC_{SO} \times DFI \times F_{SO} \times (1/BW) \times AUF$

$ADD_{SM} = EPC_{SM} \times DFI \times F_{SM} \times (1/BW) \times AUF$

where:

DFI = Daily food ingestion	172	grams/day dw
F_{SO} = Fraction of diet - soil	0.028	fraction
F_{SM} = Fraction of diet - small mammals	1.0	fraction
BW = Body weight	4,535	grams
AUF = Area use factor	0.10	fraction

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
CT = Central tendency
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SO = Soil
SM = Small mammal
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
dw = dry weight
bw = body weight
"--" = Value not available/calculated

Table 36
Final Baseline Ecological Risk Assessment
RME Risk Characterization for the Upland Area - American Woodcock
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland Area COPECs	Soil		Invertebrate		ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SO} (1) mg/kg dw	ADD_{SO} (2) mg/kg_{bw}-day	EPC_{INV} (1) mg/kg dw	ADD_{INV} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Antimony	8.7E+00	3.8E-02	8.7E+00	3.7E-01	4.1E-01	2.0E-02	9.2E-01	20	0.4
Arsenic	2.3E+01	1.0E-01	2.2E+00	9.3E-02	1.9E-01	2.2E+00	4.5E+00	0.09	0.04
Barium	2.0E+03	9.0E+00	1.8E+02	7.8E+00	1.7E+01	2.1E+01	4.2E+01	0.8	0.4
Beryllium	2.6E+00	1.2E-02	1.2E-01	5.1E-03	1.7E-02	1.8E-01	2.2E-01	0.09	0.07
Cadmium	5.9E+00	2.6E-02	3.4E+01	1.4E+00	1.5E+00	1.5E+00	6.4E+00	1	0.2
Chromium	6.5E+01	2.9E-01	2.0E+01	8.5E-01	1.1E+00	2.7E+00	1.6E+01	0.4	0.07
Chromium, Hexavalent	3.4E+00	1.5E-02	1.0E+00	4.4E-02	5.9E-02	3.1E+00	1.3E+01	0.02	0.005
Cobalt	6.0E+01	2.6E-01	7.3E+00	3.1E-01	5.7E-01	7.6E+00	1.8E+01	0.08	0.03
Lead	1.2E+03	5.2E+00	2.4E+02	1.0E+01	1.6E+01	1.6E+00	4.5E+01	10	0.3
Mercury	8.0E+02	3.5E+00	4.7E+00	2.0E-01	3.7E+00	4.5E-01	9.0E-01	8	4
Methyl Mercury	1.3E-01	5.5E-04	1.3E-01	5.3E-03	5.9E-03	6.4E-03	6.4E-02	0.90	0.09
Selenium	1.7E+00	7.6E-03	1.4E+00	5.8E-02	6.6E-02	2.9E-01	8.2E-01	0.2	0.08
Vanadium	5.1E+01	2.3E-01	1.6E+01	7.0E-01	9.3E-01	3.4E-01	1.7E+00	3	0.5
alpha-Chlordane	3.6E-03	1.6E-05	3.6E-03	1.5E-04	1.7E-04	2.1E+00	1.1E+01	0.00008	0.00002
Hexachlorobenzene	4.4E+01	2.0E-01	2.4E+01	1.0E+00	1.2E+00	2.7E-02	9.7E-02	50	10
Aroclor 1254/1260	3.0E+00	1.3E-02	3.0E+00	1.3E-01	1.4E-01	1.8E-01	1.8E+00	0.8	0.08
Trichloroethylene	3.8E+00	1.7E-02	3.8E+00	1.6E-01	1.8E-01	2.3E-01	2.3E+00	0.8	0.08

Notes:
(1) Reasonable maximum exposure (RME) exposure point concentration (EPC) calculated as the 95% UCL on the mean using USEPA ProUCL Statistical Software. If statistical analysis could not be conducted, the maximum concentration was used.
(2) Average daily dose (ADD) for the American woodcock calculated as:

$ADD = ADD_{SO} + ADD_{INV}$

$ADD_{SO} = EPC_{SO} \times DFI \times F_{SO} \times (1/BW) \times AUF$

$ADD_{INV} = EPC_{INV} \times DFI \times F_{INV} \times (1/BW) \times AUF$

where:

DFI = Daily food ingestion	20	grams/day dw
F_{SO} = Fraction of diet - soil	0.104	fraction
F_{INV} = Fraction of diet - invertebrates	1.0	fraction
BW = Body weight	169	grams
AUF = Area use factor	0.36	fraction

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
RME = Reasonable maximum exposure
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SO = Soil
INV = Invertebrate
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
dw = dry weight
bw = body weight

Table 37
Final Baseline Ecological Risk Assessment
CT Risk Characterization for the Upland Area - American Woodcock
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland Area COPECs	Soil		Invertebrate		ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SO} (1) mg/kg dw	ADD_{SO} (2) mg/kg_{bw}-day	EPC_{INV} (1) mg/kg dw	ADD_{INV} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Antimony	5.3E+00	2.3E-02	5.3E+00	2.2E-01	2.5E-01	2.0E-02	9.2E-01	10	0.3
Arsenic	1.8E+01	7.8E-02	1.8E+00	7.8E-02	1.6E-01	2.2E+00	4.5E+00	0.07	0.03
Barium	1.4E+03	6.1E+00	1.2E+02	5.3E+00	1.1E+01	2.1E+01	4.2E+01	0.5	0.3
Beryllium	2.0E+00	8.6E-03	8.8E-02	3.7E-03	1.2E-02	1.8E-01	2.2E-01	0.07	0.06
Cadmium	3.1E+00	1.4E-02	2.1E+01	8.7E-01	8.9E-01	1.5E+00	6.4E+00	0.6	0.1
Chromium	5.0E+01	2.2E-01	1.5E+01	6.6E-01	8.8E-01	2.7E+00	1.6E+01	0.3	0.06
Chromium, Hexavalent	1.5E+00	6.8E-03	4.7E-01	2.0E-02	2.7E-02	3.1E+00	1.3E+01	0.009	0.002
Cobalt	4.2E+01	1.8E-01	5.1E+00	2.2E-01	4.0E-01	7.6E+00	1.8E+01	0.05	0.02
Lead	5.6E+02	2.5E+00	1.3E+02	5.6E+00	8.1E+00	1.6E+00	4.5E+01	5	0.2
Mercury	4.6E+02	2.0E+00	4.0E+00	1.7E-01	2.2E+00	4.5E-01	9.0E-01	5	2
Methyl Mercury	3.2E-02	1.4E-04	3.2E-02	1.3E-03	1.5E-03	6.4E-03	6.4E-02	0.20	0.02
Selenium	1.5E+00	6.5E-03	1.2E+00	5.2E-02	5.9E-02	2.9E-01	8.2E-01	0.2	0.07
Vanadium	4.9E+01	2.2E-01	1.6E+01	6.6E-01	8.8E-01	3.4E-01	1.7E+00	3	0.5
alpha-Chlordane	5.1E-03	2.3E-05	5.1E-03	2.2E-04	2.4E-04	2.1E+00	1.1E+01	0.00010	0.00002
Hexachlorobenzene	1.2E+01	5.1E-02	6.2E+00	2.6E-01	3.2E-01	2.7E-02	9.7E-02	10	3
Aroclor 1254/1260	1.8E+00	8.2E-03	1.8E+00	7.9E-02	8.7E-02	1.8E-01	1.8E+00	0.5	0.05
Trichloroethylene	8.6E-01	3.8E-03	8.6E-01	3.6E-02	4.0E-02	2.3E-01	2.3E+00	0.2	0.02

Notes:
(1) Central tendency (CT) exposure point concentration (EPC) calculated as the arithmetic mean using one-half the detection limit for non-detect results.
(2) Average daily dose (ADD) for the American woodcock calculated as:

$ADD = ADD_{SO} + ADD_{INV}$

$ADD_{SO} = EPC_{SO} \times DFI \times F_{SO} \times (1/BW) \times AUF$

$ADD_{INV} = EPC_{INV} \times DFI \times F_{INV} \times (1/BW) \times AUF$

where:

DFI = Daily food ingestion	20	grams/day dw
F_{SO} = Fraction of diet - soil	0.104	fraction
F_{INV} = Fraction of diet - invertebrates	1.0	fraction
BW = Body weight	169	grams
AUF = Area use factor	0.36	fraction

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
CT = Central tendency
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SO = Soil
INV = Invertebrate
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
dw = dry weight
bw = body weight

Table 38
Final Baseline Ecological Risk Assessment
RME Risk Characterization for the Upland Area - Red-tailed Hawk
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland Area COPECs	Soil		Small Mammal		ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SO} (1) mg/kg dw	ADD_{SO} (2) mg/kg_{bw}-day	EPC_{SM} (1) mg/kg dw	ADD_{SM} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Antimony	8.7E+00	3.9E-03	4.3E-01	3.4E-03	7.4E-03	2.0E-02	9.2E-01	0.4	0.008
Arsenic	2.3E+01	1.0E-02	1.0E-01	8.1E-04	1.1E-02	2.2E+00	4.5E+00	0.005	0.002
Barium	2.0E+03	9.2E-01	1.4E+00	1.1E-02	9.3E-01	2.1E+01	4.2E+01	0.04	0.02
Beryllium	2.6E+00	1.2E-03	5.9E-03	4.7E-05	1.2E-03	1.8E-01	2.2E-01	0.007	0.006
Cadmium	5.9E+00	2.7E-03	6.6E-01	5.2E-03	7.9E-03	1.5E+00	6.4E+00	0.005	0.001
Chromium	6.5E+01	3.0E-02	5.0E+00	4.0E-02	6.9E-02	2.7E+00	1.6E+01	0.03	0.004
Chromium, Hexavalent	3.4E+00	1.5E-03	5.7E-01	4.5E-03	6.0E-03	3.1E+00	1.3E+01	0.002	0.0005
Cobalt	6.0E+01	2.7E-02	2.4E+00	1.9E-02	4.6E-02	7.6E+00	1.8E+01	0.006	0.003
Lead	1.2E+03	5.3E-01	2.5E+01	2.0E-01	7.3E-01	1.6E+00	4.5E+01	0.4	0.02
Mercury	8.0E+02	3.6E-01	4.3E+01	3.4E-01	7.1E-01	4.5E-01	9.0E-01	2	0.8
Methyl Mercury	1.3E-01	5.7E-05	1.3E-01	9.9E-04	1.0E-03	6.4E-03	6.4E-02	0.20	0.02
Selenium	1.7E+00	7.7E-04	8.1E-01	6.4E-03	7.2E-03	2.9E-01	8.2E-01	0.02	0.009
Vanadium	5.1E+01	2.3E-02	6.3E-01	5.0E-03	2.8E-02	3.4E-01	1.7E+00	0.08	0.02
alpha-Chlordane	3.6E-03	1.6E-06	4.3E-03	3.4E-05	3.6E-05	2.1E+00	1.1E+01	0.00002	0.000003
Hexachlorobenzene	4.4E+01	2.0E-02	2.9E+01	2.3E-01	2.5E-01	2.7E-02	9.7E-02	9	3
Aroclor 1254/1260	3.0E+00	1.4E-03	3.0E+00	2.4E-02	2.5E-02	1.8E-01	1.8E+00	0.1	0.01
Trichloroethylene	3.8E+00	1.7E-03	--	--	1.7E-03	2.3E-01	2.3E+00	0.007	0.0007

Notes:
(1) Reasonable maximum exposure (RME) exposure point concentration (EPC) calculated as the 95% UCL on the mean using USEPA ProUCL Statistical Software. If statistical analysis could not be conducted, the maximum concentration was used.
(2) Average daily dose (ADD) for the red-tailed hawk calculated as:

$ADD = ADD_{SO} + ADD_{SM}$

$ADD_{SO} = EPC_{SO} \times DFI \times F_{SO} \times (1/BW) \times AUF$

$ADD_{SM} = EPC_{INV} \times DFI \times F_{SM} \times (1/BW) \times AUF$

where:

DFI = Daily food ingestion	90	grams/day dw
F_{SO} = Fraction of diet - soil	0.057	fraction
F_{SM} = Fraction of diet - small mammal	1.0	fraction
BW = Body weight	1,134	grams
AUF = Area use factor	0.10	fraction

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
RME = Reasonable maximum exposure
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SO = Soil
SM = Small mammal
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
dw = dry weight
bw = body weight
"--" = Value not available/calculated

Table 39
Final Baseline Ecological Risk Assessment
CT Risk Characterization for the Upland Area - Red-tailed Hawk
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland Area COPECs	Soil		Small Mammal		ADD (2)	NOAEL TRV	LOAEL TRV	NOAEL HQ (3)	LOAEL HQ (3)
	EPC_{SO} (1) mg/kg dw	ADD_{SO} (2) mg/kg_{bw}-day	EPC_{SM} (1) mg/kg dw	ADD_{SM} (2) mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day	mg/kg_{bw}-day		
Antimony	5.3E+00	2.4E-03	2.6E-01	2.1E-03	4.5E-03	2.0E-02	9.2E-01	0.2	0.005
Arsenic	1.8E+01	8.0E-03	8.2E-02	6.5E-04	8.6E-03	2.2E+00	4.5E+00	0.004	0.002
Barium	1.4E+03	6.2E-01	9.4E-01	7.4E-03	6.3E-01	2.1E+01	4.2E+01	0.03	0.02
Beryllium	2.0E+00	8.8E-04	4.4E-03	3.5E-05	9.2E-04	1.8E-01	2.2E-01	0.005	0.004
Cadmium	3.1E+00	1.4E-03	4.9E-01	3.9E-03	5.3E-03	1.5E+00	6.4E+00	0.004	0.0008
Chromium	5.0E+01	2.3E-02	4.1E+00	3.3E-02	5.6E-02	2.7E+00	1.6E+01	0.02	0.004
Chromium, Hexavalent	1.5E+00	7.0E-04	3.2E-01	2.5E-03	3.2E-03	3.1E+00	1.3E+01	0.001	0.0003
Cobalt	4.2E+01	1.9E-02	1.5E+00	1.2E-02	3.1E-02	7.6E+00	1.8E+01	0.004	0.002
Lead	5.6E+02	2.5E-01	1.8E+01	1.4E-01	3.9E-01	1.6E+00	4.5E+01	0.2	0.009
Mercury	4.6E+02	2.1E-01	2.5E+01	2.0E-01	4.1E-01	4.5E-01	9.0E-01	0.9	0.5
Methyl Mercury	3.2E-02	1.4E-05	3.2E-02	2.5E-04	2.7E-04	6.4E-03	6.4E-02	0.04	0.00
Selenium	1.5E+00	6.6E-04	7.6E-01	6.0E-03	6.7E-03	2.9E-01	8.2E-01	0.02	0.008
Vanadium	4.9E+01	2.2E-02	6.0E-01	4.7E-03	2.7E-02	3.4E-01	1.7E+00	0.08	0.02
alpha-Chlordane	5.1E-03	2.3E-06	6.2E-03	4.9E-05	5.1E-05	2.1E+00	1.1E+01	0.00002	0.000005
Hexachlorobenzene	1.2E+01	5.2E-03	7.5E+00	5.9E-02	6.4E-02	2.7E-02	9.7E-02	2	0.7
Aroclor 1254/1260	1.8E+00	8.4E-04	1.8E+00	1.5E-02	1.6E-02	1.8E-01	1.8E+00	0.09	0.009
Trichloroethylene	8.6E-01	3.9E-04	--	--	3.9E-04	2.3E-01	2.3E+00	0.002	0.0002

Notes:
(1) Central tendency (CT) exposure point concentration (EPC) calculated as the arithmetic mean using one-half the detection limit for non-detect results.
(2) Average daily dose (ADD) for the red-tailed hawk calculated as:

$ADD = ADD_{SO} + ADD_{SM}$

$ADD_{SO} = EPC_{SO} \times DFI \times F_{SO} \times (1/BW) \times AUF$

$ADD_{SM} = EPC_{SM} \times DFI \times F_{SM} \times (1/BW) \times AUF$

where:

DFI = Daily food ingestion	90	grams/day dw
F_{SO} = Fraction of diet - soil	0.057	fraction
F_{SM} = Fraction of diet - small mammal	1.0	fraction
BW = Body weight	1,134	grams
AUF = Area use factor	0.10	fraction

(3) Hazard quotient (HQ), shown to one significant figure, calculated as:
HQ = ADD / TRV

Definitions:
CT = Central tendency
COPEC = Constituent of potential ecological concern
EPC = Exposure point concentration
ADD = Average daily dose
SO = Soil
SM = Small mammal
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
TRV = Toxicity reference value
HQ = Hazard quotient
mg/kg = milligram per kilogram
dw = dry weight
bw = body weight
"--" = Value not available/calculated

Table 40
Final Baseline Ecological Risk Assessment
Risk Characterization Summary for Upland Area Wildlife Receptors
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Upland Area COPECs	Short-Tailed Shrew HQ				Red Fox HQ				American Woodcock HQ				Red-Tailed Hawk HQ			
	RME NOAEL	RME LOAEL	CT NOAEL	CT LOAEL	RME NOAEL	RME LOAEL	CT NOAEL	CT LOAEL	RME NOAEL	RME LOAEL	CT NOAEL	CT LOAEL	RME NOAEL	RME LOAEL	CT NOAEL	CT LOAEL
Antimony	20	0.4	10	0.3	0.04	0.0009	0.03	0.0006	20	0.4	10	0.3	0.4	0.008	0.2	0.005
Arsenic	0.4	0.08	0.3	0.07	0.003	0.0006	0.002	0.0005	0.09	0.04	0.07	0.03	0.005	0.002	0.004	0.002
Barium	0.6	0.4	0.4	0.3	0.004	0.003	0.003	0.002	0.8	0.4	0.5	0.3	0.04	0.02	0.03	0.02
Beryllium	0.05	0.04	0.04	0.03	0.0006	0.0004	0.0004	0.0003	0.09	0.07	0.07	0.06	0.007	0.006	0.005	0.004
Cadmium	6	0.6	3	0.4	0.004	0.0005	0.003	0.0003	1	0.2	0.6	0.1	0.005	0.001	0.004	0.0008
Chromium	1	0.05	0.9	0.04	0.01	0.0004	0.009	0.0004	0.4	0.07	0.3	0.06	0.03	0.004	0.02	0.004
Chromium, Hexavalent	0.02	0.004	0.007	0.002	0.0003	0.00007	0.0001	0.00004	0.02	0.005	0.009	0.002	0.002	0.0005	0.001	0.0003
Cobalt	0.2	0.06	0.1	0.04	0.002	0.0008	0.001	0.0005	0.08	0.03	0.05	0.02	0.006	0.003	0.004	0.002
Lead	8	0.2	4	0.1	0.05	0.001	0.03	0.0007	10	0.3	5	0.2	0.4	0.02	0.2	0.009
Mercury	4	0.4	2	0.2	0.2	0.02	0.1	0.01	8	4	5	2	2	0.8	0.9	0.5
Methyl Mercury	0.5	0.1	0.1	0.03	0.02	0.003	0.004	0.0008	0.9	0.09	0.2	0.02	0.2	0.02	0.04	0.004
Selenium	1	0.3	1	0.2	0.02	0.005	0.02	0.005	0.2	0.08	0.2	0.07	0.02	0.009	0.02	0.008
Vanadium	0.6	0.2	0.5	0.2	0.002	0.0008	0.002	0.0008	3	0.5	3	0.5	0.08	0.02	0.08	0.02
alpha-Chlordane	0.0001	0.00005	0.0001	0.00007	0.000004	0.000002	0.000005	0.000003	0.00008	0.00002	0.0001	0.00002	0.00002	0.000003	0.00002	0.000005
Aroclor 1254/1260	3	0.6	2	0.4	0.08	0.02	0.05	0.01	0.8	0.08	0.5	0.05	0.1	0.01	0.09	0.009
Hexachlorobenzene	40	10	10	3	1	0.4	0.4	0.1	50	10	10	3	9	3	2	0.7
Trichloroethylene	0.7	0.07	0.2	0.02	0.0006	0.00006	0.0001	0.00001	0.8	0.08	0.2	0.02	0.007	0.0007	0.002	0.0002

Definitions:
COPEC = Constituent of potential ecological concern
HQ = Hazard quotient
RME = Reasonable maximum exposure (maximum EPC)
CT = Central tendency (95 UCL EPC)
EPC = Exposure point concentration
NOEAL = No observable adverse effect level
LOAEL = Lowest observable adverse effect level
Shading indicates HQ > 1

FINAL
BASELINE ECOLOGICAL RISK ASSESSMENT

FIGURES

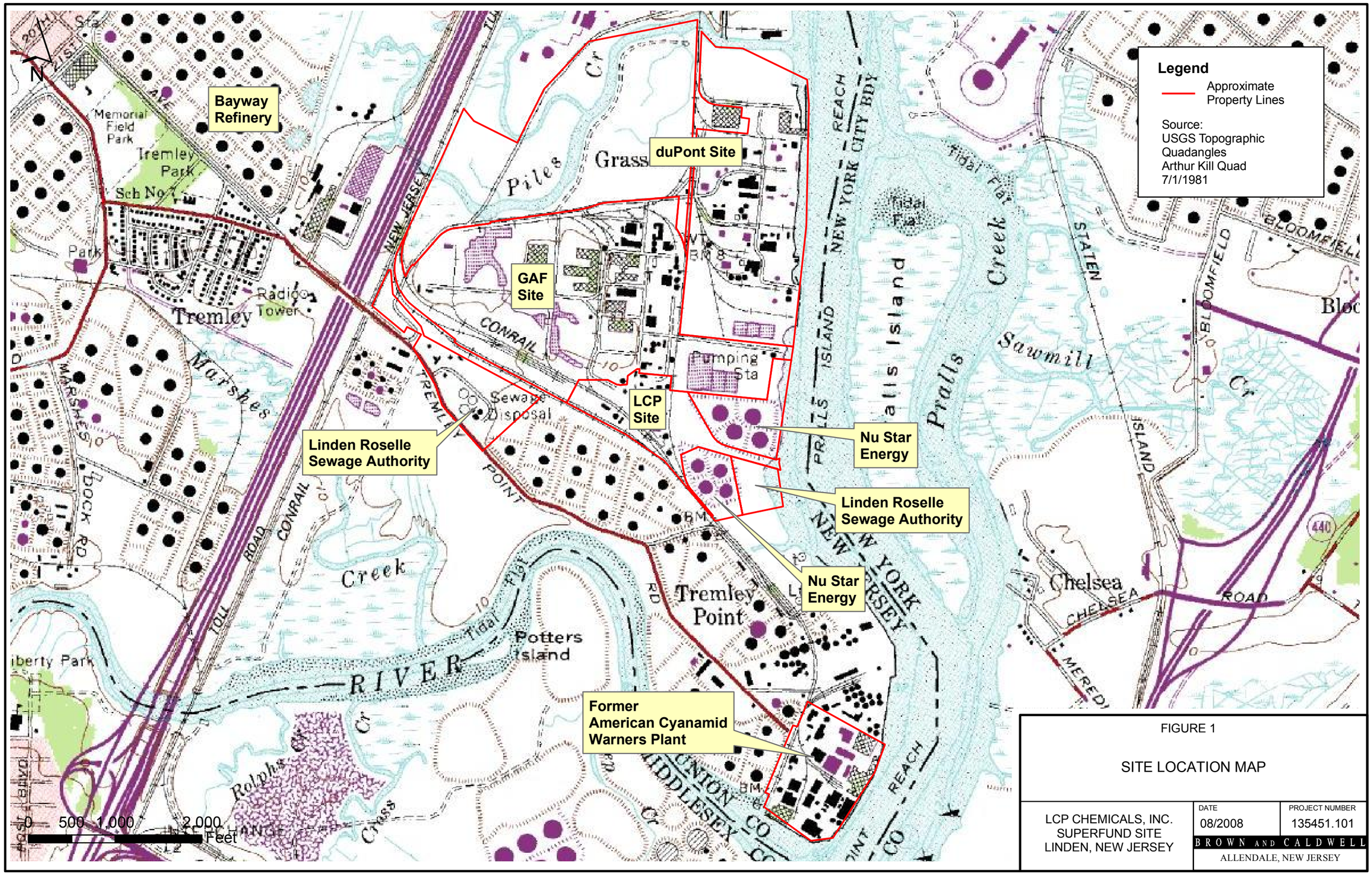


FIGURE 1

SITE LOCATION MAP

LCP CHEMICALS, INC. SUPERFUND SITE LINDEN, NEW JERSEY	DATE 08/2008	PROJECT NUMBER 135451.101
	BROWN AND CALDWELL ALLENDALE, NEW JERSEY	

P:GIS/LCP/RIR/LCP_Site_Location.mxd

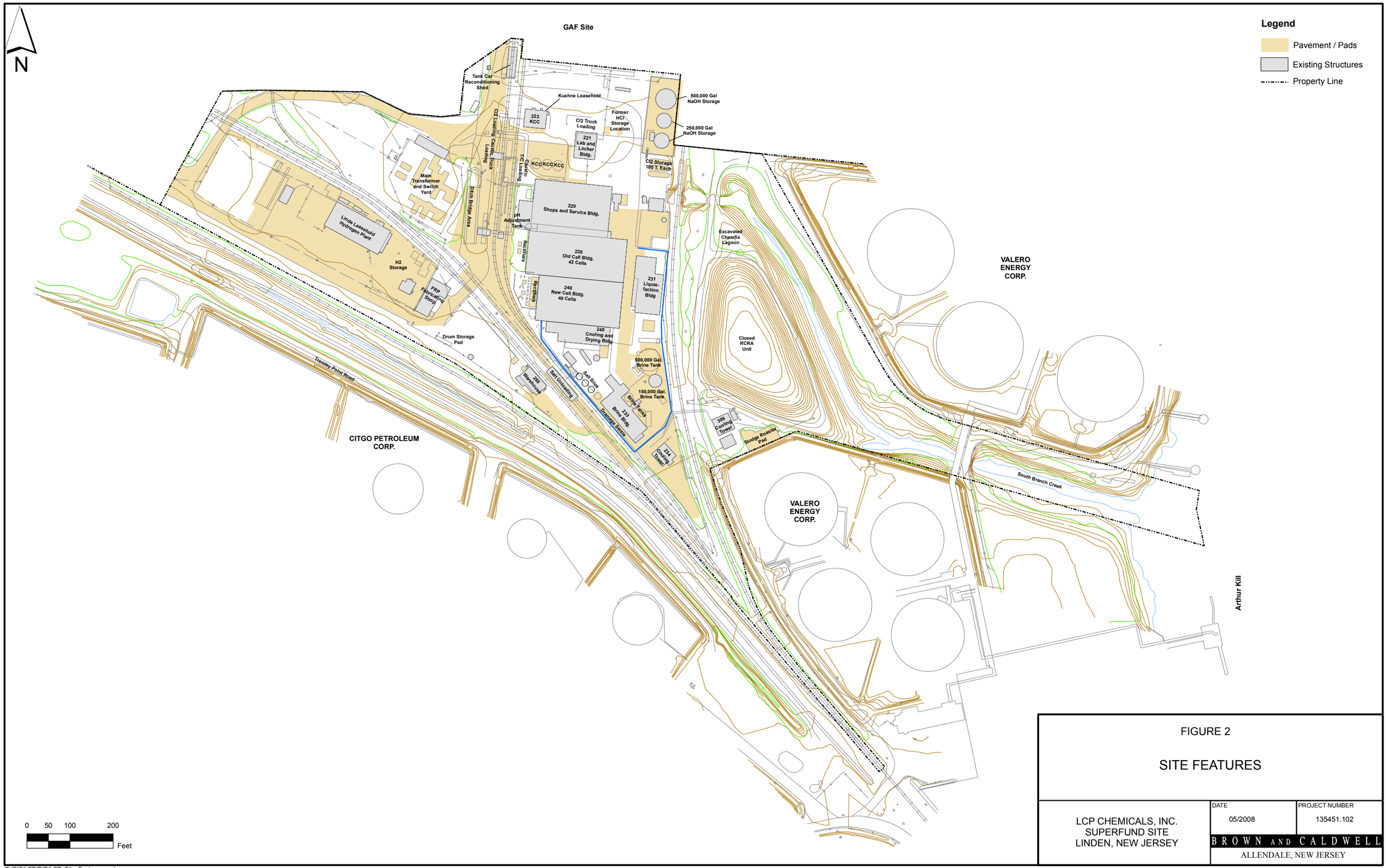


FIGURE 2

SITE FEATURES

LCP CHEMICALS, INC. SUPERFUND SITE LINDEN, NEW JERSEY	DATE 05/2008	PROJECT NUMBER 135451.102
	BROWN AND CALDWELL ALLENDALE, NEW JERSEY	

P:/GIS/LCP/RIR/LCP_Site_Features.mxd

R2-0006501

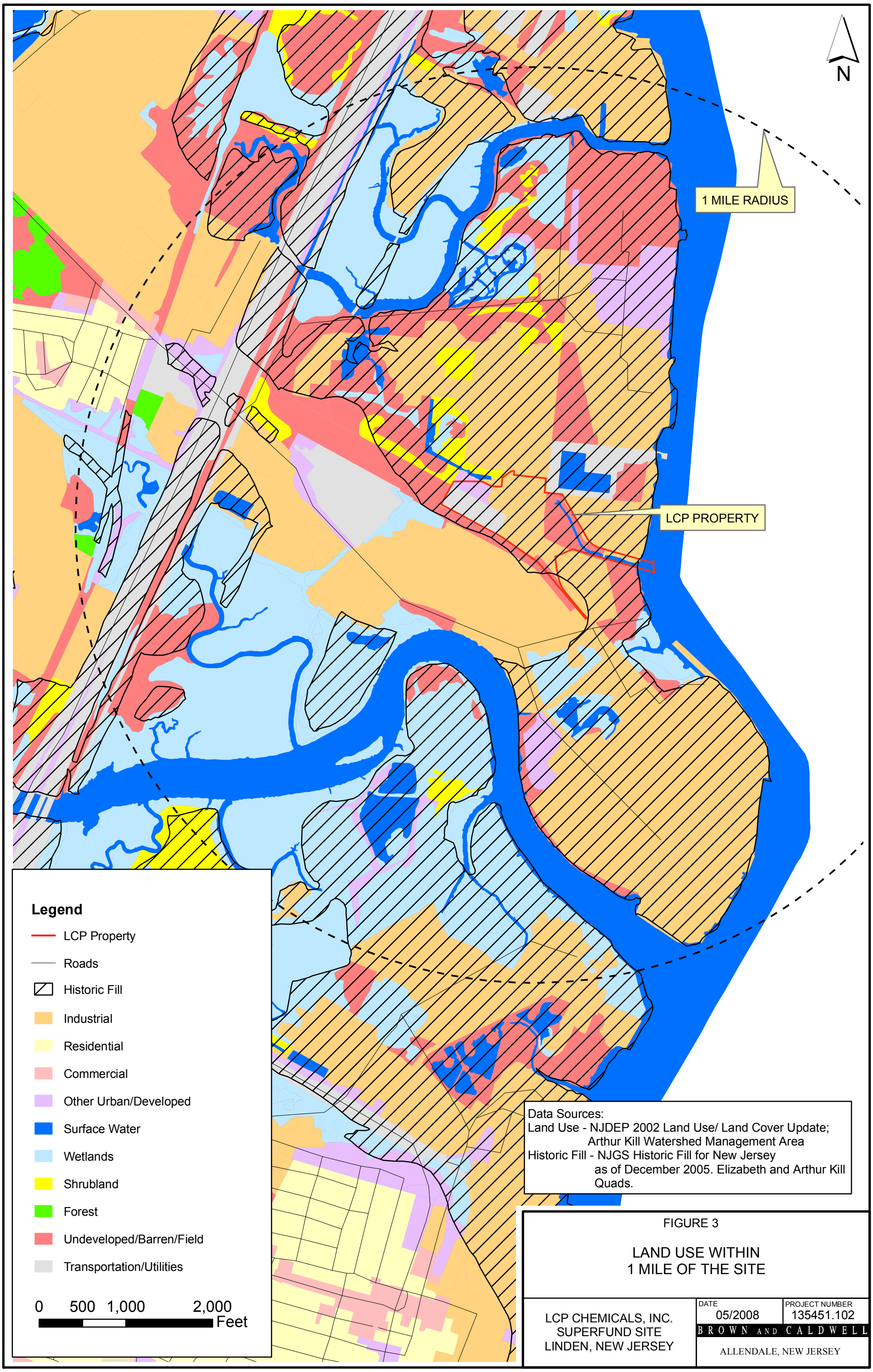


FIGURE 3

LAND USE WITHIN
1 MILE OF THE SITE

LCP CHEMICALS, INC.
SUPERFUND SITE
LINDEN, NEW JERSEY

DATE	PROJECT NUMBER
05/2008	135451.102

BROWN AND CALDWELL

ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/LCP_Landuse.mxd

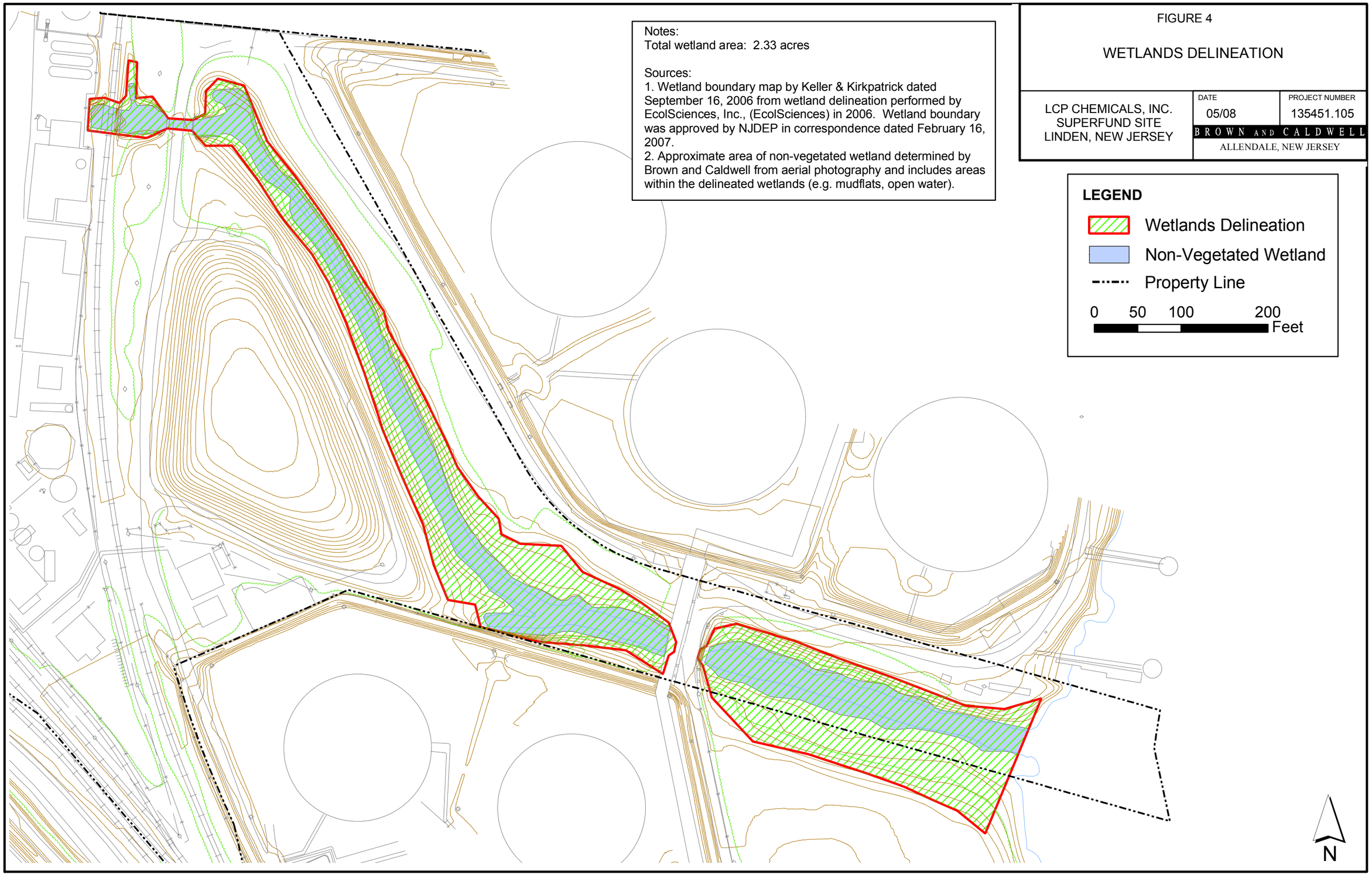
FIGURE 4

WETLANDS DELINEATION

LCP CHEMICALS, INC. SUPERFUND SITE LINDEN, NEW JERSEY	DATE 05/08	PROJECT NUMBER 135451.105
	BROWN AND CALDWELL ALLENDALE, NEW JERSEY	

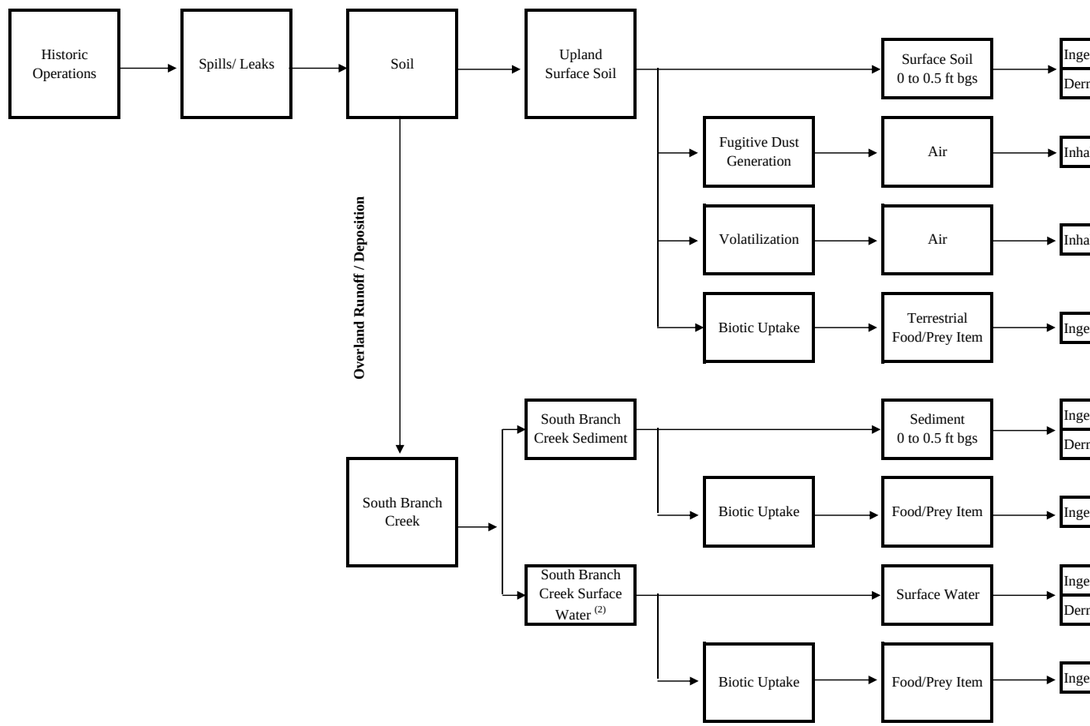
Notes:
Total wetland area: 2.33 acres

Sources:
1. Wetland boundary map by Keller & Kirkpatrick dated September 16, 2006 from wetland delineation performed by EcolSciences, Inc., (EcolSciences) in 2006. Wetland boundary was approved by NJDEP in correspondence dated February 16, 2007.
2. Approximate area of non-vegetated wetland determined by Brown and Caldwell from aerial photography and includes areas within the delineated wetlands (e.g. mudflats, open water).



P:GIS/LCP/RIR/LCP_Wetland_Delineation.mxd

R2-0006503



	Potential On-Site Ecological Receptors									
	Upland Area Soil				South Branch Creek					
EXPOSURE ROUTE (1)	Short-tailed Shrew	Red Fox	American Woodcock	Red-tailed Hawk	Benthic Macro-invertebrate (3)	Estuarine Fish (4)	Raccoon	Mink	Spotted Sandpiper	Great Blue Heron
Ingestion	●	●	●	●	–	–	–	–	–	–
Dermal Contact	❍	❍	❍	❍	–	–	–	–	–	–
Inhalation	❍	❍	❍	❍	–	–	–	–	–	–
Inhalation	❍	❍	❍	❍	–	–	–	–	–	–
Ingestion	●	●	●	●	–	–	–	–	–	–
Ingestion	–	–	–	–	❍	–	●	●	●	●
Dermal Contact	–	–	–	–	❍	–	❍	❍	❍	❍
Ingestion	–	–	–	–	–	–	●	●	●	●
Ingestion	–	–	–	–	–	❍	●	●	●	●
Dermal Contact	–	–	–	–	–	❍	❍	❍	❍	❍
Ingestion	–	–	–	–	–	❍	●	●	●	●

Legend

→ = Potentially complete exposure pathways
● = Pathways for quantitative food-chain evaluation
❍ = Pathways for qualitative/screening level evaluation
– = Incomplete pathways

Notes:

(1) Of these potential routes, ingestion of substrate and dietary exposures are assumed to be the primary exposure route; inhalation and dermal contact pathways are generally associated with negligible exposures in wildlife species when compared to ingestion exposures.

(2) The creek is tidally influenced and too salty to provide a direct drinking water source for most ecological receptors. However, to account for incidental ingestion of surface water while feeding, an incidental ingestion rate of 5% of the drinking water rate was assumed.

(3) Benthic macroinvertebrate exposure to COPECs in South Branch Creek was evaluated by comparing sediment concentrations to invertebrate benchmark values and also through laboratory toxicity testing.

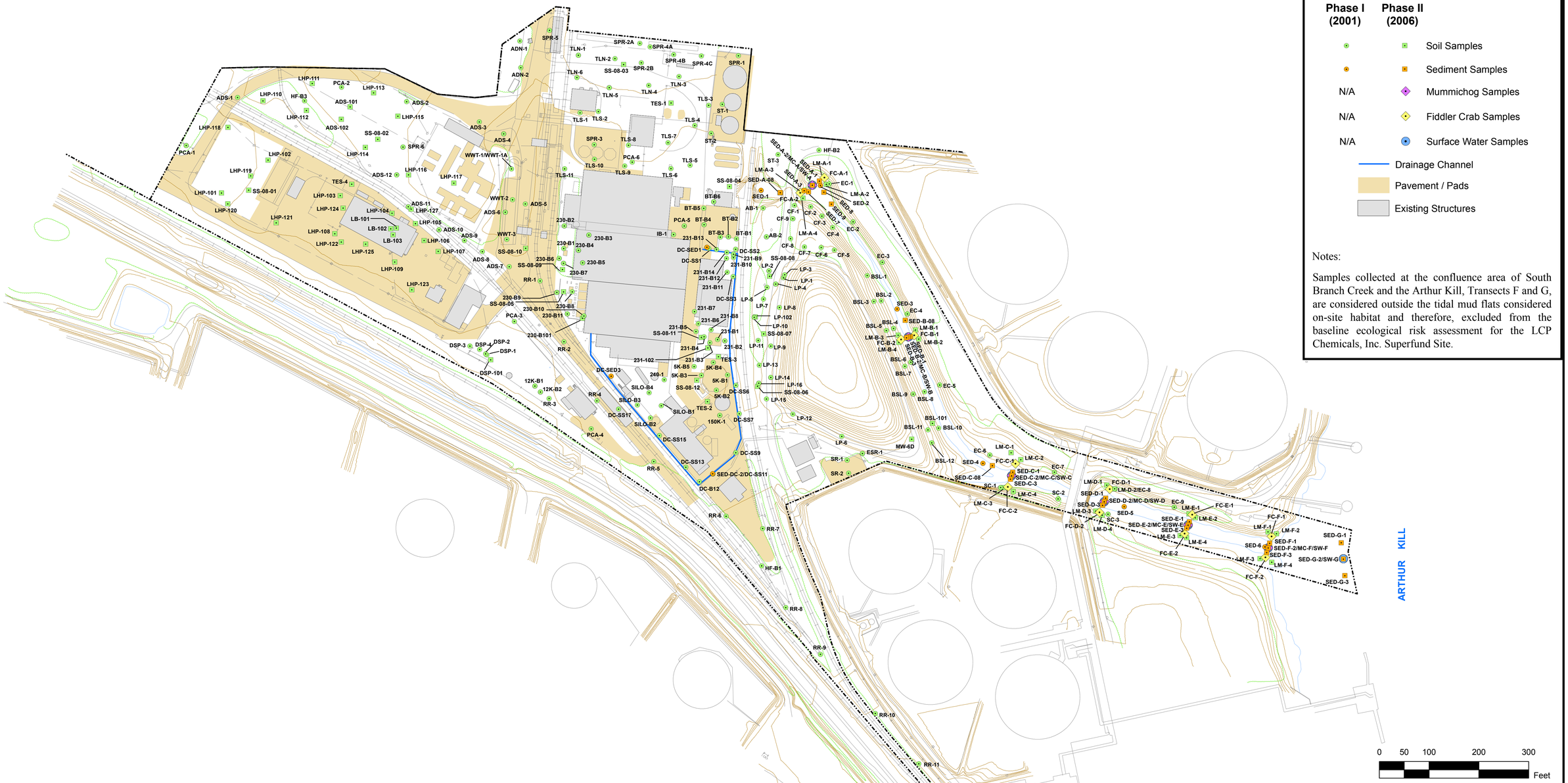
(4) Estuarine fish exposure to COPECs in South Branch Creek was evaluated by comparing tissue concentrations to tissue toxicity reference values from the literature.

Final Baseline Ecological Risk Assessment
Ecological Conceptual Site Model
LCP Chemicals, Inc. Superfund Site - Linden, NJ

Geosyntec consultants

APRIL 2013

Figure 5



Legend

Phase I (2001)	Phase II (2006)	
		Soil Samples
		Sediment Samples
N/A		Mummichog Samples
N/A		Fiddler Crab Samples
N/A		Surface Water Samples

Drainage Channel

Pavement / Pads

Existing Structures

Notes:

Samples collected at the confluence area of South Branch Creek and the Arthur Kill, Transects F and G, are considered outside the tidal mud flats considered on-site habitat and therefore, excluded from the baseline ecological risk assessment for the LCP Chemicals, Inc. Superfund Site.

FIGURE 6

LCP PHASE I AND PHASE II
REMEDIAL INVESTIGATION
ECOLOGICAL SAMPLE LOCATIONS

LCP CHEMICALS, INC.
SUPERFUND SITE
LINDEN, NEW JERSEY

DATE	PROJECT NUMBER
08/12/2008	135451.103

BROWN AND CALDWELL
ALLENDALE, NEW JERSEY

P:/GIS/LCP/RIR/LCP_PhI_PhII_Sample_Locations.mxd

R2-0006505

FINAL
BASELINE ECOLOGICAL RISK ASSESSMENT
ATTACHMENT A

Environmental Data Evaluated in the BERA

Table A-1 South Branch Creek Sediment Data
Table A-2 South Branch Creek Fiddler Crab Tissue Data
Table A-3 South Branch Creek Mummichog Tissue Data
Table A-4 South Branch Creek Surface Water Data
Table A-5 Upland Area Soil Data
Table A-6 Total PCB Summations - South Branch Creek Sediment
Table A-7 Total PCB Summations - Upland Area Soil
Table A-8 TCDD TECs for Ortho-PCBs - South Branch Creek Fiddler Crab Tissue
Table A-9 TCDD TECs for Ortho-PCBs - South Branch Creek Mummichog Tissue
Table A-10 TCDD TECs for Dioxin Congeners - South Branch Creek Sediment
Table A-11 TCDD TECs for Furan Congeners - South Branch Creek Sediment
Table A-12 TCDD TECs for Dioxin Congeners - South Branch Creek Surface Water
Table A-13 TCDD TECs for Furan Congeners - South Branch Creek Surface Water

FINAL BASELINE ECOLOGICAL RISK ASSESSMENT
ATTACHMENT A

Environmental Data Evaluated in the BERA

Table A-1 South Branch Creek Sediment Data
Table A-2 South Branch Creek Fiddler Crab Tissue Data
Table A-3 South Branch Creek Mummichog Tissue Data
Table A-4 South Branch Creek Surface Water Data
Table A-5 Upland Area Soil Data
Table A-6 Total PCB Summations - South Branch Creek Sediment
Table A-7 Total PCB Summations - Upland Area Soil
Table A-8 TCDD TECs for Dioxin Congeners - South Branch Creek Sediment
Table A-9 TCDD TECs for Furan Congeners - South Branch Creek Sediment
Table A-10 TCDD TECs for Dioxin Congeners - South Branch Creek Surface Water
Table A-11 TCDD TECs for Furan Congeners - South Branch Creek Surface Water
Table A-12 TCDD TECs for Ortho-PCBs - South Branch Creek Fiddler Crab Tissue
Table A-13 TCDD TECs for Ortho-PCBs - South Branch Creek Mummichog Tissue

Table A-1
Data Evaluated in the BERA
South Branch Creek Sediment Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect [1]	Sample ID [1]	Date	Depth Interval (ft bgs)	Arsenic	Barium	Chromium	Chromium, Hexavalent	Copper	Iron	Lead	Manganese	Mercury	Methyl Mercury	Vanadium	Zinc	Total PCBs [2]	2,3,7,8-TCDD Benthic Dioxin TEC [3]	2,3,7,8-TCDD Mammalian Dioxin TEC [3]	2,3,7,8-TCDD Avian Dioxin TEC [3]	2,3,7,8-TCDD Benthic Furan TEC [3]	2,3,7,8-TCDD Mammalian Furan TEC [3]	2,3,7,8-TCDD Avian Furan TEC [3]
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Transect A	SED-1	8/22/2001	0 - 0.5	48.7	2,930 J	29.5	--	83.8	24,000 J	93.7	240	155	--	30.1	856 J	0.96	--	--	--	--	--	--
	SED-A-08	5/15/2008	0 - 0.5	--	--	--	--	--	--	--	--	39.9	0.0442	--	--	--	--	--	--	--	--	--
	CF-2	8/28/2001	0 - 0.5	24.5	1,060 J	19.9	--	44.4	13,700 J	124	146	592	--	23.4	259	0.12	--	--	--	--	--	--
	CF-3	8/28/2001	0 - 0.5	63.3	5,850 J	50.1	--	74.5	23,400 J	475	132	24	--	32.7	610	0.028	--	--	--	--	--	--
	CF-4	8/28/2001	0 - 0.5	95.2	8,270 J	46.2	--	126	20,200 J	395	245	233	--	32.3	1,050	0.24	--	--	--	--	--	--
	EC-1	8/21/2001	0 - 1	2.1	373	11.2	--	17.3 J	7,260 J	25.4	101	1.2	--	12	43.8	0.018	--	--	--	--	--	--
	LM-A-1	9/21/2006	0 - 0.5	5,460 J	6,120 J	69.7 J	--	160 J	240,000 J	215 J	728 J	82.5 J	0.0861	78.8 J	938 J	0.032	--	--	--	--	--	--
	LM-A-2	9/21/2006	0 - 0.5	267 J	5,560 J	144 J	3 J	353 J	37,400 J	618 J	161 J	148 J	0.1	57.2 J	1,640 J	0.030	--	--	--	--	--	--
	LM-A-3	9/21/2006	0 - 0.5	211 J	9,920 J	134 J	--	286 J	43,600 J	1,280 J	291 J	117 J	0.0677	60.5 J	2,140 J	0.028	5.8E-06	6.5E-06	5.5E-06	1.9E-05	1.7E-05	8.0E-05
	LM-A-4	10/10/2006	0 - 0.5	573	12,900	88.5	2.7 U	318	47,400	2,230	155	141	0.0688	46.4	6,370	0.030	--	--	--	--	--	--
	SED-2	8/22/2001	0 - 0.5	4,250	7,620 J	63.5	--	190	157,000 J	294	461	412	--	51.9	2,220 J	1.2	--	--	--	--	--	--
	SED-7	10/10/2006	0 - 0.5	237	16,700	110	4 U	290	54,800	668	284	242	0.0369	70.9	2,230	0.56	--	--	--	--	--	--
	SED-8	10/10/2006	0 - 0.5	319	9,610	111	2.5 U	303	72,400	475	337	219	0.0488	64.1	1,480	2.7	--	--	--	--	--	--
	SED-A-1	10/9/2006	0 - 0.5	2,640	7,700	207	5.6	519	247,000	717	1,300	368	0.106	129	2,410	0.34	7.0E-06	8.1E-06	6.7E-06	5.4E-05	4.9E-05	2.5E-04
	SED-A-2	10/9/2006	0 - 0.5	930	962	2,690	3.2	1,100	44,300	3,950	226	305	0.019	77	2,710	0.024	--	--	--	--	--	--
	SED-A-3	10/9/2006	0 - 0.5	301	7,920	156	7.5	403	71,400	1,160	346	114	0.0435	108	2,470	0.29	3.8E-06	4.8E-06	3.5E-06	2.2E-05	2.2E-05	1.3E-04
	SED-9	10/10/2006	0 - 0.5	118	8,930	53.8	1.8 U	147	27,300	339	148	136	0.0345	36.7	1,020	0.35	--	--	--	--	--	--
	EC-2	8/21/2001	0 - 1	17.4	3,990	20.3	--	61.1 J	14,800 J	343	233	1.8	--	26	481	0.037	--	--	--	--	--	--
Transect B	EC-3	8/21/2001	0 - 1	9.3	632	22.4	--	30.7 J	17,400 J	67.9	157	1.1	--	39.1	84.1	0.018	1.9E-06	2.6E-06	1.6E-06	3.3E-06	2.7E-06	7.7E-06
	BSL-1	9/20/2001	0 - 1	7.5	12,400 J	13.4	--	28.6	11,400	83.5	58.1	364	--	22	47.5	0.15	8.7E-07	1.1E-06	8.5E-07	1.3E-04	9.8E-05	2.9E-04
	BSL-2	9/21/2001	0 - 1	9.6	10,900	21.4	--	40.4	23,300 J	85.8	196	141	--	17.1	334	0.025	--	--	--	--	--	--
	BSL-3	9/20/2001	0 - 0.5	2.1	827 J	7.3	--	11.6	8,400	9.2	51.5	20.6	--	13.8	27.3	0.019	--	--	--	--	--	--
	SED-3	8/22/2001	0 - 0.5	19.9	1,620 J	24.8	--	59.3	9,780 J	177	45.7	98.3	--	15.8	1,290 J	0.072	--	--	--	--	--	--
	EC-4	8/21/2001	0 - 1	22.1	3,290	53.2	--	52.5 J	30,600 J	123	231	0.67	--	40.6	394	0.019	--	--	--	--	--	--
	EC-4 DUP [4]	8/21/2001	0 - 1	17.5	4,440	50.9	--	56.5 J	29,900 J	168	210	1.2	--	38.7	373	0.018	--	--	--	--	--	--
	SED-B-08	5/15/2008	0 - 0.5	--	--	--	--	--	--	--	--	157	0.0531	--	--	--	--	--	--	--	--	--
	BSL-4	9/21/2001	0 - 1	2.7	2,380	9.9	--	20.2	5,710 J	27.8	67.4	61.2	--	13.5	69.5	0.040	--	--	--	--	--	--
	BSL-5	9/21/2001	0 - 0.5	2.6	4,150	8.5	--	18.4	11,000 J	42.8	81.4	82.6	--	15.8	62.1	0.019	--	--	--	--	--	--
	SED-B-1	10/6/2006	0 - 0.5	89.9	386	145	2.7 U	326	32,500	1,280	207	181	0.0308	47	6,950	0.36	--	--	--	--	--	--
	SED-B-2	10/6/2006	0 - 0.5	27.2	9,690	22.1	1.3 U	54.7	11,600	187	61.2	47.8	0.0052	13.3	4,140	0.014	--	--	--	--	--	--
	SED-B-3	10/6/2006	0 - 0.5	38.1	5,800	48	1.8 U	119	17,400	334	96.9	28.2	0.0165	24.6	1,850	0.020	--	--	--	--	--	--
	LM-B-1	10/10/2006	0 - 0.5	59.4	15,800	130	2.2 U	269	44,100	435	1,260	181	0.0008	42.3	5,150	0.024	--	--	--	--	--	--
	LM-B-2	10/10/2006	0 - 0.5	42	15,600	90.6	1.8 U	166	28,900	306	285	213	0.0048	36.6	3,760	0.021	4.0E-06	4.5E-06	3.8E-06	4.7E-05	3.7E-05	1.3E-04
	LM-B-3	10/4/2006	0 - 0.5	9.5	18,700	17.6	1.3 U	98.8	11,900	1,160	98.8	75.3	0.0013	17.1	2,340	0.014	2.5E-06	2.8E-06	2.2E-06	5.2E-05	4.0E-05	1.1E-04
	LM-B-4	10/4/2006	0 - 0.5	12.6	15,600	24.3	1.9	63.3	13,200	654	116	105	0.0047	21.1	799	0.016	--	--	--	--	--	--
	BSL-6	9/26/2001	0 - 1	23.2	6,470	34.2	--	77.6	19,600	119	195	211	--	25.1	481	0.027	6.0E-06	7.1E-06	5.5E-06	2.3E-04	1.8E-04	5.3E-04
	BSL-7	9/21/2001	0 - 0.5	3.8	10,400	8.1	--	33.8	8,850 J	20.8	59.6	71.6	--	13.3	133	0.064	--	--	--	--	--	--
	BSL-7 DUP [4]	9/21/2001	0 - 0.5	5.2	11,900	11.6	--	28.6	13,700 J	23.7	76.9	59.4	--	16.6	156	0.023	--	--	--	--	--	--
	BSL-8	9/26/2001	0 - 1	30.8	732	59.1	--	136	14,900	590	75.4	423	--	14.3	8,020	0.027	--	--	--	--	--	--
	BSL-9	9/21/2001	0 - 0.5	1.6	4,530	6.5	--	10.3	5,650 J	15.6	38.7	66.9	--	11.7	39.3	0.065	--	--	--	--	--	--
	EC-5	8/21/2001	0 - 1	1.5	136	13.6	--	34.4 J	13,900 J	18.4	203	0.38	--	24.6	55.8	0.018	--	--	--	--	--	--
	BSL-101	12/6/2006	0 - 1	--	--	--	--	--	--	--	--	1,100 J	0.0172	--	--	--	--	--	--	--	--	--
	BSL-10	9/21/2001	0 - 1	9.3	7,150	41.5	--	61.6	18,000 J	151	703	2,300	--	18.8	1,070	0.026	--	--	--	--	--	--
	BSL-10 DUP [4]	9/21/2001	0 - 1	5.8	7,990	37.7	--	60.6	11,800 J	96.4	1,160	2,190	--	19	566	0.022	--	--	--	--	--	--
	BSL-11	9/26/2001	0 - 1	16.2	3,330	29.4	--	60.6	10,800	85.7	50.3	1,370	--	21	707	0.025	--	--	--	--	--	--
	BSL-12	9/26/2001	0 - 1	3.4	5,020	16.6	--	59.9	19,400	44.6	221	177	--	14.9	262	0.072	2.6E-06	3.9E-06	2.3E-06	1.9E-04	1.5E-04	4.1E-04
Transect C	EC-6	8/21/2001	0 - 1	2.3	72.2	10.4	--	21.9 J	8,920 J	45.6	69.2	0.67	--	13.1	104	0.021	--	--	--	--	--	--
	SED-4	8/22/2001	0 - 0.5	51.5 J	2,210 J	45 J	--	162 J	16,000 J	2,130 J	426 J	367 J	--	17.8 J	3,620 J	0.039	--	--	--	--	--	--
	SED-C-08	5/15/2008	0 - 0.5	--	--	--	--	--	--	--	--	216	0.0387	--	--	--	--	--	--	--	--	--
	LM-C-1	10/10/2006	0 - 0.5	10.9	16,600	48.7	2.9	88.1	7,720	81	81.4	1,800	0.0519	19.4	98.2	0.024	--	--	--	--	--	--
	LM-C-2	10/10/2006	0 - 0.5	14.1	6,870	13.3	1.6 U	60.8	6,620	39.1	141	2,150	0.0199	9	70.3	0.018	2.4E-06	2.8E-06	2.2E-06	2.6E-04	2.0E-04	5.5E-04
	LM-C-2 DUP [4]	10/10/2006	0 - 0.5	20.1	6,580	28.3	1.9 U	75.1	9,810	60.4	142	2,790	0.0254	15	146	0.062	1.7E-06	2.1E-06	1.6E-06	1.9E-04	1.4E-04	4.0E-04
	LM-C-3	10/10/2006	0 - 0.5	25.3	10,600	65.3	2.6	138	17,200	138	169	1,590	0.0656	30.7	212	0.027	--	--	--	--	--	--
	LM-C-4	10/10/2006	0 - 0.5	11.3	9,200	17.8	2.1 U	80.1	6,800	58.9	102	3,050	0.0141	10.6	96.2	0.024	--	--	--	--	--	--
	SED-C-1	10/6/2006	0 - 0.5	53.3	1,020	94	3.7 U	207	32,700	182	233	286	0.0059 J	47.1	734	0.23	--	--	--	--	--	--
	SED-C-2	10/6/2006	0 - 0.5	62.1	949	77.2	3 U	181	27,100	179	234	593	0.03 J	35.9	856	0.033	--	--	--	--	--	--
	SED-C-3	10/6/2006	0 - 0.5	75.2	1,290	75.1	2.9 U	178	28,200	227	182	184	0.0206 J	35.4	1,000	0.45	1.6E-05	1.8E-05	1.5E-05	1.7E-04	1.5E-04	5.9E-04
	SC-1	8/21/2001	0 - 1	4	7,360	14.1	--	28.9 J	8,340 J	40.4	69.8	534	--	20	73.6	2.3	--	--	--	--	--	--
	EC-7	8/21/2001	0 - 1	11.7	3,650	28.8	--	51 J	21,100 J	147	399	2.7	--	30.4	463	0.020	1.6E-06	2.1E-06	1.4E-06	2.8E-06	2.2E-06	6.4E-06
	SC-2	8/22/2001	0 - 1	3.9	343	23.2	--	37.9	17,800	40	136	3.3	--	23.7	106	0.037	--	--	--	--	--	--

Table A-1
Data Evaluated in the BERA
South Branch Creek Sediment Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect (1)	Sample ID (1)	Date	Depth Interval (ft bgs)	Arsenic	Barium	Chromium	Chromium, Hexavalent	Copper	Iron	Lead	Manganese	Mercury	Methyl Mercury	Vanadium	Zinc	Total PCBs (2)	2,3,7,8-TCDD Benthic Dioxin TEC (3)	2,3,7,8-TCDD Mammalian Dioxin TEC (3)	2,3,7,8-TCDD Avian Dioxin TEC (3)	2,3,7,8-TCDD Benthic Furan TEC (3)	2,3,7,8-TCDD Mammalian Furan TEC (3)	2,3,7,8-TCDD Avian Furan TEC (3)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Transect D	EC-8	8/21/2001	0 - 1	**5**	**770**	**21.1**	--	**45.7** J	**20,000** J	**84.9**	**268**	**0.92**	--	**36.4**	**126**	**0.018**	--	--	--	--	--	--
	LM-D-1	10/9/2006	0 - 0.5	**46.3**	**3,580**	**116**	3.8 U	**303**	**27,100**	**246**	**160**	**71.5**	**0.0423**	**61**	**255**	**0.042**	--	--	--	--	--	--
	LM-D-2	10/9/2006	0 - 0.5	**139**	**3,390**	**180**	6.1 U	**533**	**34,000**	**525**	**169**	**38.1**	**0.00873**	**110**	**788**	**0.069**	**1.0E-05**	**1.0E-05**	**9.2E-06**	**1.2E-05**	**1.0E-05**	**3.5E-05**
	LM-D-3	10/9/2006	0 - 0.5	**82.5**	**6,890**	**191**	**7**	**501**	**43,400**	**339**	**313**	**159**	**0.0171**	**82.1**	**760**	**0.053**	**2.0E-05**	**2.3E-05**	**1.8E-05**	**5.8E-05**	**4.8E-05**	**1.7E-04**
	LM-D-4	10/9/2006	0 - 0.5	**182**	**3,490**	**234**	**6.4** U	**858**	**38,200**	**613**	**200**	**70.9**	**0.0325**	**85.8**	**561**	**0.072**	--	--	--	--	--	--
	SED-D-1	10/5/2006	0 - 0.5	**87.6** J	**6,600** J	**165** J	--	**392** J	**42,300** J	**366** J	**292** J	**187** J	**0.0227** J	**63** J	**1,290** J	**0.046**	--	--	--	--	--	--
	SED-D-2	10/5/2006	0 - 0.5	**81.5** J	**4,560** J	**143** J	--	**357** J	**38,200** J	**333** J	**290** J	**180** J	**0.0093** J	**55.3** J	**1,300** J	**0.037**	--	--	--	--	--	--
	SED-D-3	10/5/2006	0 - 0.5	**147** J	**10,100** J	**263** J	--	**717** J	**59,000** J	**666** J	**445** J	**187** J	**0.0178** J	**101** J	**1,750** J	**0.068**	**3.2E-05**	**3.7E-05**	**2.9E-05**	**1.0E-04**	**8.7E-05**	**3.3E-04**
	SC-3	8/22/2001	0 - 1	**5.7**	**126**	**18.7**	--	**35.3**	**19,500**	**37.1**	**156**	**0.77**	--	**23.8**	**94.7**	**0.019**	**2.3E-06**	**2.9E-06**	**2.1E-06**	**3.5E-06**	**3.1E-06**	**7.9E-06**
	SED-5	8/22/2001	0 - 0.5	**23.7** J	**1,810** J	**58.5** J	--	**62.2** J	**29,300** J	**59** J	**284** J	**163** J	--	**49.8** J	**176** J	**0.060**	--	--	--	--	--	--
Transect E	EC-9	8/21/2001	0 - 1	**7.7**	**347**	**30.3**	--	**76.7** J	**27,000** J	**172**	**483**	**0.93**	--	**48.1**	**288**	**0.042**	--	--	--	--	--	--
	LM-E-1	10/9/2006	0 - 0.5	**150**	**1,990**	**116**	**5.9**	**471**	**33,800**	**658**	**175**	**11.1**	**0.0142**	**106**	**459**	**0.058**	--	--	--	--	--	--
	LM-E-2	10/9/2006	0 - 0.5	**66.3**	**1,700**	**70.7**	5 U	**248**	**21,100**	**242**	**150**	**17.9**	**0.0237**	**64.6**	**414**	**0.056**	--	--	--	--	--	--
	LM-E-3	10/5/2006	0 - 0.5	**195** J	**4,870** J	**656** J	**5.5** J	**1,040** J	**35,000** J	**737** J	**238** J	**159** J	**0.0567** J	**91.8** J	**445** J	**0.38**	**8.6E-05**	**9.5E-05**	**8.1E-05**	**1.1E-04**	**9.4E-05**	**2.9E-04**
	LM-E-4	10/5/2006	0 - 0.5	**236** J	**2,730** J	**536** J	--	**855** J	**35,600** J	**764** J	**247** J	**54** J	**0.0177** J	**95** J	**422** J	**0.034**	--	--	--	--	--	--
	SED-E-1	10/3/2006	0 - 0.5	**69.7** J	**3,920** J	**72.3** J	--	**227** J	**27,300** J	**152** J	**176** J	**32.3** J	**0.0159** J	**42.1** J	**392** J	**0.056**	**5.2E-06**	**5.9E-06**	**5.1E-06**	**1.2E-05**	**1.0E-05**	**3.8E-05**
	SED-E-2	10/5/2006	0 - 0.5	**56.3** J	**301** J	**110** J	**5** J	**261** J	**28,100** J	**222** J	**215** J	**160** J	**0.0063** J	**37.5** J	**759** J	**0.18**	--	--	--	--	--	--
	SED-E-3	10/3/2006	0 - 0.5	**61.4** J	**11,500** J	**172** J	--	**363** J	**40,700** J	**302** J	**347** J	**173** J	**0.0192** J	**60.5** J	**845** J	**0.058**	--	--	--	--	--	--

Notes:
(1) Samples are generally presented from upstream to downstream (i.e., moving from the Site towards the confluence of South Branch Creek with the Arthur Kill).
(2) Total PCBs are the sum of Aroclor 1254 Aroclor 1260, assuming one-half the detection limit for non-detect results. No other Aroclors were detected in sediment. Note that because detection limits were included in the summation at one-half the detection limit, Total PCB values were entered into ProUCL as detected concentrations ("1" qualifier). Summations are presented in Table A-6. Total PCBs were calculated prior to applying the duplicate handling process.
(3) Dioxin and furan toxic equivalency concentration (TEC) calculations are presented in Table A-8 (dioxins) and Table A-9 (furans). TECs were calculated prior to applying the duplicate handling process.
(4) DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detected results and a relative percent difference (RPD) ≤ 25%, average concentration
- 2 detected results and a RPD > 25%, maximum concentration
- 1 detected result and 1 non-detect result, detected result
- 2 non-detect results, average method detection limit (MDL)

Definitions:
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
PCB = polychlorinated biphenyl
2,3,7,8-TCDD = 2,3,7,8-tetrachlorodibenzo-p-dioxin
TEC = toxic equivalency concentration
Bold = detected concentration
J = estimated value
U = non-detect value; MDL presented
"--" = Data not available

ATTACHMENT A

Table A-2
Data Evaluated in the BERA
South Branch Creek Fiddler Crab Tissue Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect [1]	Sample ID	Date	Arsenic	Trivalent Arsenic [2]	Pentavalent Arsenic [2]	Arseno betaine [2]	Dimethyl arsinate [2]	Monomethyl arsonate [2]	Barium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Methyl Mercury	Vanadium	Zinc	Orth-PCB Mammalian TEC [3]	Orth-PCB Avian TEC [3]
			mg/kg dw	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Transect A	FC-A-1	9/18/2006	**54.2**	**0.073**	**1.76**	**1.47**	**0.007**	0.0002 U	**335**	**4.6**	**129**	**2210**	**9.91**	**22.4**	**3.28**	**0.25**	**2.31**	**81.3**	**1.9E-06**	**5.1E-05**
	FC-A-2	9/18/2006	**22.3**	0.002 U	**0.578**	**2.49**	0.001 U	0.0002 U	**365**	**6.7**	**119**	**1660**	**21.3**	**28.3**	**3.19**	**0.26**	**2.45**	**88**	**5.7E-05**	**1.7E-04**
Transect B	FC-B-1	9/19/2006	**10.2**	0.002 U	**0.144**	**2.42**	0.001 U	0.0002 U	**2160**	**24.6**	**126**	**1900**	**35.6**	**76.8**	**21.4**	**0.33**	**3.58**	**164**	**1.6E-05**	**6.4E-05**
	FC-B-2	9/19/2006	**9.61**	0.002 U	**0.081**	**2.56**	**0.011**	0.0002 U	**1280**	**12.5**	**134**	**1250**	**13.7**	**45.9**	**8.61**	**0.27**	**2.47**	**98.3**	**2.6E-05**	**1.0E-04**
Transect C	FC-C-1	9/19/2006	**7.79**	0.002 U	**0.091**	**2.65**	**0.006**	0.0002 U	**3340**	**37.2**	**242**	**1330**	**16.3**	**42.3**	**70.2**	**0.54**	**3.01**	**145 J**	**7.7E-05**	**2.4E-04**
	FC-C-2	9/19/2006	**10**	0.002 U	**0.097**	**2.63**	0.001 U	0.0002 U	**2160**	**23.4**	**125**	**1410**	**8.89**	**47.9**	**5.18**	**0.34**	**2.74**	**84.5**	**9.7E-07**	**5.2E-05**
Transect D	FC-D-1	9/20/2006	**8.84**	0.002 U	**0.062**	**1.91**	0.069	0.0002 U	**338**	**19.2**	**124**	**1420**	**6.94**	**37.3**	**3.1**	**0.21**	**2.64**	**86.6**	**1.3E-05**	**6.1E-05**
	FC-D-2	9/20/2006	**8.73**	0.002 U	**0.086**	**1.99**	0.069	0.0002 U	**271**	**21.6**	**133**	**1040**	**8.71**	**33.6**	**2.38**	**0.19**	**2.18**	**83.5**	**2.4E-05**	**9.7E-05**
Transect E	FC-E-1	9/20/2006	**8.02**	0.002 U	**0.051**	**2.07**	0.106	0.0002 U	**164**	**11.6**	**126**	**837**	**4.96**	**30.2**	**1.66**	**0.24**	**1.81**	**77.5**	**1.1E-05**	**5.3E-05**
	FC-E-2	9/20/2006	**9.17**	0.002 U	**0.052**	**2.27**	0.113	0.0002 U	**119**	**19**	**139**	**972**	**7.75**	**43.3**	**0.345**	**0.27**	**2.28**	**79.7**	**2.4E-06**	**1.4E-04**

Notes:
(1) Samples are generally presented from upstream to downstream (i.e., moving from the Site towards the confluence of South Branch Creek with the Arthur Kill).
(2) Arsenic speciation data for tissue samples were not quantitatively evaluated in the BERA.
(3) Ortho-PCB (dioxin-like PCB) toxic equivalency concentration (TEC) calculations are presented in Table A-12.

Definitions:
mg/kg dw = milligram per kilogram dry weight
mg/kg ww = milligram per kilogram wet weight
Bold = detected concentration
J = estimated value
U = non-detect; method detection limit presented
TEC = Toxic equivalency concentration

ATTACHMENT A

Table A-3
Data Evaluated in the BERA
South Branch Creek Mummichog Tissue Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect (1)	Sample ID (1)	Date	Arsenic	Trivalent Arsenic (2)	Pentavalent Arsenic (2)	Arseno betaine (2)	Dimethyl arsinate (2)	Monomethyl arsonate (2)	Barium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Methyl Mercury	Vanadium	Zinc	Orth-PCB Fish TEC (3)	Orth-PCB Mammalian TEC (3)	Orth-PCB Avian TEC (3)
			mg/kg dw	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Transect A	MC-A	9/19/2006	**11.4**	**0.088 J**	**0.184 J**	**0.533**	**0.02**	0.0002 U	**115**	**1.1**	**13.9**	**364**	**3.68**	**17.6**	**2.59**	**1.32**	**0.99**	**142**	**4.799E-07**	**3.03E-06**	**2.33E-05**
	MC-A DUP (4)	9/19/2006	**11.6**	**0.037 J**	**0.104 J**	**0.441**	**0.015**	0.0002 U	**94.8**	**1**	**15**	**362**	**3.31**	**22.5**	**2.09**	**0.97**	**1.19**	**167**	**4.101E-07**	**2.488E-06**	**2.581E-05**
Transect B	MC-B	9/19/2006	**5.73**	**0.0041**	**0.029**	**0.57**	**0.0078**	0.0002 U	**142**	**0.7**	**20.5**	**231**	**2.75**	**20.7**	**1.98**	**0.59**	**0.88**	**175 J**	**4.014E-07**	**1.617E-05**	**3.185E-05**
Transect C	MC-C	9/19/2006	**5.43**	**0.003**	**0.022**	**0.612**	0.001 U	0.0002 U	**607**	**1.5**	**13.3**	**303**	**1.93**	**25**	**7.68**	**0.71**	**1.04**	**176**	**1.502E-07**	**9.503E-07**	**1.119E-05**
Transect D	MC-D	9/20/2006	**3.45**	0.002 U	**0.008**	**0.506**	**0.003**	**0.0002**	**25.9**	**0.8**	**13.7**	**202**	**1.47**	**27.4**	**0.486**	**0.39**	**0.8**	**170**	**5.144E-07**	**3.254E-06**	**4.274E-05**
Transect E	MC-E	9/20/2006	**2.84**	0.002 U	**0.008**	**0.371**	**0.002**	**0.0002**	**16.9**	**0.7**	**13.9**	**177**	**1.3**	**25.9**	**0.356**	**0.38**	**0.7**	**160**	**1.322E-06**	**6.32E-05**	**0.000201**

Notes:
(1) Samples are generally presented from upstream to downstream (i.e., moving from the Site towards the confluence of South Branch Creek with the Arthur Kill).
(2) Arsenic speciation data for tissue samples were not quantitatively evaluated in the BERA.
(3) Ortho-PCB (dioxin-like PCB) toxic equivalency concentration (TEC) calculations are presented in Table A-13.
(4) DUP = Duplicate sample; duplicate samples were processed as follows:
- 2 detected results and a relative percent difference (RPD) ≤ 25%, average concentration
- 2 detected results and a RPD > 25%, maximum concentration
- 1 detected result and 1 non-detect result, detected result
- 2 non-detect results, average method detection limit (MDL)

Definitions:
mg/kg dw = milligram per kilogram dry weight
mg/kg ww = milligram per kilogram wet weight
Bold = detected concentration
J = estimated value
U = non-detect; method detection limit presented
PCB = Polychlorinated biphenyl
TEC = Toxic equivalency concentration

ATTACHMENT A

Table A-4
Data Evaluated in the BERA
South Branch Creek Surface Water Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect (1)	Sample ID	Date (2)	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Methyl Mercury	Zinc	2,3,7,8-TCDD Mammalian Dioxin TEC (3)	2,3,7,8-TCDD Avian Dioxin TEC (3)	2,3,7,8-TCDD Mammalian Furan TEC (3)	2,3,7,8-TCDD Avian Furan TEC (3)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Transect A	SW-A	9/25/2006	**150 J**	**439**	**13.1**	**3920**	**20.1**	**230**	**5.8**	**0.0177 J**	**41.5**	--	--	--	--
	SW-A	10/5/2006	--	--	--	--	--	--	--	**0.0195**	--	--	--	--	--
Transect B	SW-B	9/25/2006	**28.7 J**	**588**	10 U	**1890**	**17.4**	**136**	**5.5 J**	**0.00741 J**	**89**	--	--	--	--
	SW-B DUP (4)	9/25/2006	**40.3 J**	**597**	10 U	**2060**	**18.5**	**140**	**10.9 J**	**0.00755 J**	**89.1**	--	--	--	--
	SW-B	10/5/2006	--	--	--	--	--	--	--	**0.00509**	--	--	--	--	--
Transect C	SW-C	9/25/2006	**9.2 J**	**289**	10 U	**333**	3 U	**83.1**	**1.9**	**0.000656 J**	**31.7**	**2.4E-06**	**2.2E-06**	**1.6E-06**	**5.2E-06**
	SW-C	10/5/2006	--	--	--	--	--	--	--	**0.00107**	--	--	--	--	--
	SW-C DUP (4)	10/5/2006	--	--	--	--	--	--	--	**0.0011**	--	--	--	--	--
Transect D	SW-D	9/25/2006	2 U	**200**	10 U	**105**	3 U	**63.1**	**1.6**	**0.000491 J**	20 U	--	--	--	--
	SW-D	10/5/2006	--	--	--	--	--	--	--	**0.001025**	--	--	--	--	--
Transect E	SW-E	9/25/2006	**3.2 J**	200 U	10 U	100 U	3 U	**51.6**	**1.3**	**0.0004 J**	20 U	--	--	--	--
	SW-E	10/5/2006	--	--	--	--	--	--	--	**0.000657**	--	--	--	--	--

Notes:
(1) Samples are generally presented from upstream to downstream (i.e., moving from the Site towards the confluence of South Branch Creek with the Arthur Kill).
(2) The BERA utilizes the September 2006 analytical results, with the exception of mercury for which the more recent October 2006 results are used. Note: COPECs not detected in Phase II data are excluded from quantitative analysis in the BERA (i.e., the incidental surface water ingestion pathway for South Branch Creek wildlife receptors is assumed to contribute negligible risk).
(3) Dioxin and furan toxic equivalency concentration (TEC) calculations are presented in Table A-10 (dioxins) and Table A-11 (furans).
(4) DUP = Duplicate sample; duplicate samples were processed as follows:
- 2 detected results and a relative percent difference (RPD) ≤ 25%, average concentration
- 2 detected results and a RPD > 25%, maximum concentration
- 1 detected result and 1 non-detect result, detected result
- 2 non-detect results, average method detection limit (MDL)

Definitions:
µg/L = microgram per liter
PCB = polychlorinated biphenyl
2,3,7,8-TCDD = 2,3,7,8-tetrachlorodibenzo-p-dioxin
TEC = toxic equivalency concentration
Bold = detected concentration
J = estimated value
U = non-detect value; MDL presented
"--" = Data not available

ATTACHMENT A

Table A-5
Data Evaluated in the BERA
Upland Area Soil Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample ID	Date	Depth Interval (ft bgs)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent	Cobalt	Lead	Mercury	Methyl Mercury	Selenium	Vanadium	Alpha-Chlordane	Hexachloro-benzene	Trichloro-ethene (TCE)	Total PCBs (1)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
12K-B1	9/6/2001	0 - 0.5	2.2 UJ	32.6	--	0.99	1.5	79.7 J	--	14.3	115 J	331	--	2.2 U	58	0.0039 U	1.22	16.9	2.1
12K-B2	9/6/2001	0 - 0.5	1.2 UJ	7.9	--	1.4	0.58 U	26.1 J	--	16.2	99.6 J	104	--	1.3	31.6	0.0039 U	1.9	124	0.020
150K-1	9/10/2001	0 - 0.5	--	8.9 J	817	19.1	1.2 U	227	--	157	3,920	145	--	2.5	54	0.0039 U	0.4 U	0.0045 U	0.67
230-B1	10/2/2001	0 - 0.5	1.2 UJ	4.2	67.7	0.58 U	0.58 U	16	--	7.6	42.6 J	264	--	1.2 U	25.3	0.0044 U	0.0501 J	0.0054 U	0.022
230-B10	8/30/2001	0 - 0.5	2.9 UJ	9.6	210 J	0.72 U	26.6	92.9	--	24	205	3,380	--	1.4 U	41.3	0.0053 UJ	0.702	0.031 U	7.4
230-B101	12/4/2006	0 - 1	--	--	--	--	--	--	--	--	--	2,600	0.125	--	--	--	--	--	--
230-B11	8/30/2001	0 - 0.5	1.1 UJ	1.9	452 J	0.55 U	2.7	44.5	--	15.5	44.6	196	--	1.1 U	47.6	0.0039 U	0.16	--	2.7
230-B2	8/30/2001	0 - 0.5	1.2 UJ	25.3	146 J	0.65	2	28.7	--	9.1	109	97.2	--	1.2 U	40.8	0.0042 U	0.297	0.0054 U	4.1
230-B3	8/30/2001	0 - 0.5	1.2 UJ	1.2 U	49.2 J	0.58 U	7.8	19.1	--	6.2	195	28.5	--	1.2 U	21.8	0.004 U	0.0259 J	0.007 U	5.8
230-B4	8/30/2001	0 - 0.5	1.2 UJ	11.4	100 J	0.6 U	67.2	49.6	--	15.3	170	230	--	1.2 U	64.3	0.0038 UJ	0.08 U	0.005 U	29
230-B5	9/13/2001	0 - 0.5	1.2 UJ	6.3	394	0.59 U	9	40.1	--	15.9	146	--	--	1.2 U	48.7	0.0038 U	0.0398 J	0.0028 J	4.2
230-B6	8/22/2001	0 - 0.5	1.1 UJ	11	172	0.57	1.4	34.3	--	13.2	67	310	--	1.1 U	42.2	0.037 U	0.076 U	0.005 U	1.8
230-B7	8/22/2001	0 - 0.5	1.2 UJ	7.1	163	0.66	4.1	53.1	--	18.2	115	133	--	1.3	57.4	0.082 U	0.081 U	0.0076 U	9.7
230-B9	8/22/2001	0 - 0.5	1 UJ	1.5	76.8	0.52 U	5.2	45.6	--	22.8	41.2	41.5	--	1.3	56	0.014 U	0.071 U	0.0056 U	0.59
230-B9 DUP (2)	8/22/2001	0 - 0.5	1.1 UJ	3	299	0.56	1.1	32.4	--	21.1	71.1	42.7	--	1.1 U	56.6	0.073 U	0.077 U	0.0051 U	1.0
231-101	12/6/2006	0 - 1	--	--	--	--	--	--	--	--	--	84.5 J	0.0268	--	--	--	--	--	--
231-102	12/4/2006	0 - 1	--	--	--	--	--	--	--	--	--	609	0.0413	--	--	--	--	--	--
231-B1	10/5/2001	0 - 0.5	1.1 U	4.7	119	0.57 U	0.57 U	30.4	--	11.9	15.7	823	--	1.1 U	32.5	0.0041 U	1.65	0.0062 U	2.7
231-B10	9/17/2001	0 - 0.5	1.2 UJ	3.4	289 J	1.2	3.1	33	--	18	52.9	134	--	1.2 U	35.6	0.0037 U	0.0657 J	0.0096 U	0.23
231-B11	9/19/2001	0 - 0.5	1.3 UJ	15	110	0.67	0.67	36.4	--	10.1	81.1	120	--	1.3 U	42.9	0.0076 U	8.53	0.006 U	0.35
231-B12	9/17/2001	0 - 0.5	1.2 UJ	6.8	320 J	0.6	2.6	45.9	--	17.1	91.4	130	--	1.2 U	52.3	0.0037 U	0.0731 J	0.007 U	2.6
231-B13	9/19/2001	0 - 0.5	1.2 UJ	5.6	2,080	1.1	6.9	145	--	13.3	278	4,300	--	1.2 U	65.8	0.004 U	1,440	0.0575	11
231-B14	9/19/2001	0 - 0.5	1.2 UJ	14.8	240	0.64	1.6	49.7	--	11.8	53.5	316	--	1.2 U	36.9	0.0039 U	0.0669 J	0.0052 U	0.55
231-B2	8/22/2001	0 - 0.5	2.3 U	6.3	551	0.57 U	0.61	66.5	--	14.8	49.2	601	--	1.3	62.7	0.2 U	6.2	0.0058 U	3.0
231-B3	8/22/2001	0 - 0.5	1.2 U	9.1	7,310	0.6 U	3.3	104	--	9.2	106	3,710	--	1.8	44.8	0.39 U	0.552	0.0058 U	12
231-B4	8/30/2001	0 - 0.5	1.2 UJ	2.2	264 J	0.58 U	0.61	27	--	20.4	10.5	741	--	1.2 U	53.7	0.0041 U	0.026 J	0.0087 U	0.15
231-B6	9/27/2001	0 - 0.5	1.2 UJ	9.3	1,430 J	0.6 U	1	45.3	--	11.1	53.7 J	--	--	1.2 U	41.2 J	0.0041 U	1.53	0.005 J	0.020
231-B7	9/13/2001	0 - 0.5	1.2 UJ	9	755	0.58 U	1.1	40.8	--	10.9	46.5	152	--	1.2 U	54.9	0.0042 U	1.33	0.0019 J	0.75
231-B7 DUP (2)	9/13/2001	0 - 0.5	1.2 UJ	2.7	393	0.61 U	1.4	19.8	--	9.3	42.1	309	--	1.2 U	61.1	0.0044 U	2.16	0.0052 U	2.0
231-B8	9/27/2001	0 - 0.5	2.4 UJ	16.3 J	1,460 J	1.2 UJ	6.6 J	165 J	--	13.9 J	219 J	--	--	4.1 J	38.6 J	0.0086 UJ	5.64 J	0.027 UJ	7.9
231-B9	9/27/2001	0 - 0.5	1.4 UJ	4.8	383 J	1.4	5	62.4	--	16.7	103 J	143	--	1.4 U	41.7 J	0.0052 U	13.3	0.008 U	5.2
240-1	9/26/2001	0 - 0.5	1.2 UJ	7.8	1,980	0.76	3.1	52.9	--	12	125	535	--	1.6	35.5	0.0046 U	0.118	0.0052 U	13
5K-B1	10/1/2001	0 - 0.5	1.2 U	3.5	96.2	0.64	0.6 U	25.6	--	11.6	17.6	19.7	--	1.2 U	38	0.0039 U	0.41 U	0.0054 U	0.093
5K-B2	8/31/2001	0 - 0.5	1.1 UJ	3.7	3,650	1.5	0.76	44.1	--	24.7	132	168	--	1.7	79.8	0.0035 U	0.0835	0.0071 U	16
5K-B3	9/26/2001	0 - 0.5	1.1 UJ	4	5,690	0.56 U	1.2	49.7	--	9	80.5	--	--	1.1 U	27.8	0.0038 U	0.084	0.0057 U	6.7
5K-B4	10/1/2001	0 - 0.5	1.2 U	3.1	188	0.62 U	0.62 U	22.8	--	10	14.1	--	--	1.2 U	43.7	0.0041 U	0.282 J	0.0065 U	1.6
5K-B5	8/31/2001	0 - 0.5	1.1 UJ	19	3,170	0.66	0.54 U	74.6	--	8.6	71.8	--	--	1.4	66.1	0.0039 U	0.078 U	0.0055 U	0.020
AB-1	9/4/2001	0 - 0.5	1.1 UJ	15.8	3,480	0.65	1.3	40.3 J	--	11.6	72.7 J	775	--	1.1 U	41.2	0.0039 U	1.4	0.021 U	1.7
AB-2	9/4/2001	0 - 0.5	1.2 UJ	11.8	6,710	0.79	1.9	41.7 J	--	9.9	59.8 J	544	--	1.2 U	58.9	0.0039 U	3.64	0.005 U	1.4
ADN-1	9/5/2001	0 - 0.5	1.1 UJ	41.3	148	0.57 UJ	0.57 U	31.3 J	--	6.5	109 J	262	--	1.1 U	34	0.0042 U	0.206	0.0047 U	0.020
ADN-2	9/5/2001	0 - 0.5	1.1 UJ	25.4	115	0.56 UJ	0.56 U	59.4 J	--	9.6	77.5 J	62.4	--	1.3	61.8	0.0041 U	0.082 U	0.0048 U	0.100
ADS-1	7/17/2001	0 - 0.5	6.2 J	42.1	534	0.65	0.59 U	34.2	--	19.7	351 J	15.8	--	3	70.1 J	0.00073 U	0.37 U	0.0076 U	0.093
ADS-10	7/18/2001	0 - 0.5	75.2 J	89.9	827	19.1 J	1.1 U	77.5	--	581	8,920 J	5.4	--	6.4	74.6	0.00079 U	0.077 U	0.0059 U	1.2
ADS-101	12/5/2006	0 - 1	2.3 UJ	125 J	111 J	0.57 U	0.62	24.6 J	--	5.7 U	49.5	6 J	--	2.3 U	44	0.00042 U	0.0417 J	0.03 U	0.013
ADS-102	12/5/2006	0 - 1.5	2.2 UJ	10.2 J	129 J	0.55 U	0.61	15.2 J	--	7.6	23.9	3.8 J	--	2.2 U	44.8	0.0004 U	0.022 U	0.026 U	0.012
ADS-11	7/18/2001	0 - 0.5	78.1 J	81.3	1,190	27.2 J	1.1	102	--	623	9,790 J	8.6	--	8.7	69.4	0.00076 U	0.076 U	0.0062 U	0.61
ADS-12	7/18/2001	0 - 0.5	1.1 UJ	13.4	198	0.56 J	0.54 U	27.6	--	10.1	60.6 J	46.1	--	1.1 U	38.8	0.00078 U	0.085 U	0.0082 U	0.30
ADS-2	7/18/2001	0 - 0.5	2.1 UJ	1.9	176	0.53 UJ	0.53 U	19.8	--	19.8	18.5 J	2.9	--	1 U	68.5	0.00081 U	0.08 U	0.0061 U	0.020
ADS-2 DUP (2)	7/18/2001	0 - 0.5	3.3 UJ	2.3	268	0.55 UJ	0.55 U	26.5	--	21.8	39.5 J	4.7	--	1.1 U	66.7	0.00076 U	0.074 U	0.0066 U	0.019
ADS-3	7/18/2001	0 - 0.5	1.1 UJ	13.5	176	0.56 UJ	0.56 U	26.3	--	15.4	74.2 J	9.8	--	1.1 U	54.7	0.00073 U	0.123	0.0057 U	0.018

ATTACHMENT A

Table A-5
Data Evaluated in the BERA
Upland Area Soil Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample ID	Date	Depth Interval (ft bgs)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent	Cobalt	Lead	Mercury	Methyl Mercury	Selenium	Vanadium	Alpha-Chlordane	Hexachloro-benzene	Trichloro-ethene (TCE)	Total PCBs (1)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ADS-4	7/18/2001	0 - 0.5	1.1 UJ	10.5	872	0.56 UJ	1.2	36.9	--	19.2	106 J	86.5	--	1.1 U	66.3	0.00073 U	0.241	0.006 U	0.60
ADS-5	7/18/2001	0 - 0.5	1.1 UJ	2 J	163	3.7 J	0.74	73.3	--	29.1	228	31	--	1.1 U	56.2	0.00078 U	0.36 U	0.0053 U	1.9
ADS-6	7/18/2001	0 - 0.5	1.1 UJ	10.2 J	1,370	1.4 J	1.6	38.8	--	14.7	66.3	772	--	1.1 U	51.7	0.00078 U	0.821	0.0048 U	1.4
ADS-7	7/17/2001	0 - 0.5	2.6 J	19.8	1,520	0.87	1.8	31.9	--	31.6	276 J	90.8	--	1.1 U	56.6 J	0.0007 U	0.36 U	0.0015 J	0.018
ADS-8	7/18/2001	0 - 0.5	2 J	9.3	541	0.95 J	0.92	23.4	--	32.5	349 J	175	--	1.4	55.7	0.00079 U	0.188	0.0096 U	0.020
ADS-9	7/18/2001	0 - 0.5	1.8 J	8.5	84.6	0.56 UJ	2	10.7	--	11.9	141 J	68	--	2.1	23.1	0.00085 U	0.086 U	0.0093 U	0.021
BT-B1	9/18/2001	0 - 0.5	1.1 UJ	9.2	261 J	0.63	0.82	26.8	--	8.3	27.2	83.1	--	1.1 U	28.2	0.0038 U	0.0926	0.0056 U	0.019
BT-B2	9/18/2001	0 - 0.5	1.2 UJ	5.2	170 J	1.1	0.89	40	--	16.8	62.7	232	--	1.2 U	36	0.0043 U	0.74	0.0046 U	0.022
BT-B3	9/18/2001	0 - 0.5	1.1 UJ	4.4	173 J	0.98	2.9	28	--	7.6	39.3	577	--	1.1 U	31.9	0.0035 U	184	0.0058 U	0.67
BT-B4	8/30/2001	0 - 0.5	1 UJ	1 U	41.8 J	0.51 U	0.51 U	16.3	--	11.1	13.7	76	--	1 U	64	0.0035 U	0.34 U	0.0066 U	0.52
BT-B5	10/2/2001	0 - 0.5	1.3 UJ	7.8	879	0.66 U	1.5	37.2	--	10.4	97.4 J	535	--	1.3 U	31.2	0.0041 U	0.83	0.0054 U	4.5
BT-B5 DUP (2)	10/2/2001	0 - 0.5	1.1 UJ	11.8	987	0.6	0.82	70.8	--	18.7	119 J	1,110	--	6.4	39	0.0038 U	0.943	0.0043 U	5.0
BT-B6	9/17/2001	0 - 0.5	4.2 UJ	12.4	767 J	2.3	6.2	185	--	45.9	465	378	--	4.4	40.2	0.0037 U	12.8	0.007 U	0.66
CF-1	8/31/2001	0 - 0.5	1.2 UJ	7.7	3,410	0.58 U	1.6	12.2	--	8	107	55.5	--	1.2 U	24.5	0.0036 U	0.074 U	0.0048 U	0.044
CF-5	8/28/2001	0 - 0.5	1.1 UJ	3	1,460 J	0.54 U	0.54 U	5.8	--	5.4 U	33	8.9	--	1.1 U	10.8	0.0039 U	0.07 U	0.0057 U	0.019
CF-6	8/28/2001	0 - 0.5	1.1 UJ	13.5	4,510 J	0.57 U	2.2	16.3	--	5.7 U	102	39.9	--	1.1 U	21.5	0.0043 U	0.077 U	0.0052 U	0.29
CF-6 DUP (2)	8/28/2001	0 - 0.5	1.1 UJ	13.5	4,260 J	0.71	1.6	17.4	--	5.7 U	85.3	41.9	--	1.1 U	23.4	0.0043 U	0.077 U	0.0056 U	0.051
CF-7	8/28/2001	0 - 0.5	1.7 J	40.1	812 J	0.56 U	7.1	27	--	5.6 U	199	204	--	1.1 U	24	0.0042 U	0.0423 J	0.0052 U	1.0
CF-8	8/28/2001	0 - 0.5	1.1 UJ	19.6	2,370 J	0.57 U	3.4	18	--	5.7 U	142	157	--	1.1 U	20.9	0.0041 U	0.0524 J	0.0054 U	0.58
CF-9	8/31/2001	0 - 0.5	1.1 UJ	11.6	4,320	0.54 U	2.2	11.8	--	5.4 U	87.4	61.1	--	1.1 U	18	0.0037 U	0.074 U	0.0048 U	0.11
DC-B12	10/3/2001	0 - 0.5	1.1 UJ	10.8	6,850	0.54 U	0.54 U	44	--	14.9	48 J	239	--	1.1 U	39.1	0.0036 U	0.0648 J	0.0098 U	0.71
DC-SED1	9/20/2001	0 - 0.5	2.4 J	29 J	1,010 J	1.1 UJ	14.4 J	149 J	--	20.6 J	429 J	3,890 J	--	2.1 UJ	123 J	0.0079 UJ	10.2 J	0.0054 UJ	13
DC-SED2	9/20/2001	0 - 0.5	2.5 J	29.7	2,160 J	1.4	6	209	--	31.7	791	972	--	1.7 U	87.9	0.0087 U	0.304 J	0.0034 U	19
DC-SED3	9/20/2001	0 - 0.5	3.9 J	33.6 J	1,400 J	1.9 UJ	87.5 J	344 J	--	27 J	807 J	--	--	3.7 UJ	81.1 J	0.015 UJ	164 J	0.083 J	11
DC-SS1	9/18/2001	0 - 0.5	4.6 UJ	28.9	408 J	2.3 U	8.3	218	--	34.6	269	916	--	4.6 U	25.4	0.0037 U	4.3	0.0048 U	14
DC-SS11	9/17/2001	0 - 0.5	1.1 UJ	2.8	3,240 J	0.98	0.99	33	--	9.6	76.2	84.2	--	1.1 U	46.3	0.0033 U	0.37 U	0.0043 U	0.47
DC-SS13	9/17/2001	0 - 0.5	1.1 UJ	2.1	2,260 J	0.54 U	1.6	18.5	--	15.1	25.1	261	--	1.1 U	74.1	0.0035 U	0.589	0.0085 U	0.39
DC-SS15	9/17/2001	0 - 0.5	1.3 UJ	5.7	8,630 J	3.6	4.1	60	--	16.2	134	2,230	--	1.3 U	30.9	0.0043 U	1.64	0.0023 J	2.4
DC-SS17	9/17/2001	0 - 0.5	1.2 UJ	2	5,780 J	0.65	1.6	39.7	--	12	82.7	268	--	1.2 U	26.3	0.0039 U	0.409	0.0055 U	5.4
DC-SS18	9/17/2001	0 - 0.5	1.7 J	8.3	6,180 J	1.9	1.3	139	--	17.2	320	558	--	1.3	21.2	0.004 U	0.211	0.0058 U	0.68
DC-SS2	9/17/2001	0 - 0.5	1.1 UJ	8.9	1,120 J	4.7	4.4	65.4	--	20.3	172	1,770	--	1.1 U	27	0.0037 U	2.3	0.0052 U	3.2
DC-SS3	9/17/2001	0 - 0.5	9.5 J	10	612 J	1.9	11.7	99.3	--	29.3	216	1,120	--	1.6	31	0.0042 U	0.497	0.00095 J	4.7
DC-SS6	9/17/2001	0 - 0.5	1.1 UJ	5.4	3,960 J	2.7	2.1	72.8	--	20.6	157	807	--	1.1 U	52.7	0.0036 U	0.834	0.0078 U	8.8
DC-SS7	9/17/2001	0 - 0.5	1.1 UJ	4.8	6,400 J	2.4	4.4	47.6	--	11.5	110	526	--	1.1 U	23.8	0.0038 U	0.231	0.0064 U	2.3
DC-SS9	9/17/2001	0 - 0.5	1.2 UJ	2.7	7,010 J	1.3	0.77	44	--	20.5	56	486	--	1.2 U	53	0.0042 U	0.156	0.0047 U	1.5
DSP-1	10/3/2001	0 - 0.5	1.2 UJ	10.8	426	1.1	0.58 U	33.9	--	24	227 J	236	--	1.4	46.4	0.0039 U	0.0792 J	0.0072 U	4.1
DSP-101	12/4/2006	0 - 1	--	--	--	--	--	--	--	--	--	0.52	0.0000612	--	--	--	--	--	--
DSP-2	9/4/2001	0 - 0.5	1.1 UJ	2.4	273	0.54 U	0.75	29.6 J	--	25.1	68 J	1,540	--	1.1 U	70.1	0.0038 U	0.694	0.0058 U	0.019
DSP-3	9/4/2001	0 - 0.5	1.1 UJ	9.5	333	0.61	0.57 U	30.3 J	--	17.4	90.8 J	2	--	1.1 U	55.7	0.0041 U	0.38 U	0.0056 U	0.43
DSP-4	9/4/2001	0 - 0.5	2.5 J	80.5	377	1.7	1.3	27.2 J	--	18	140 J	26.5	--	2.4 U	40.8	0.0043 U	0.0357 J	0.0056 U	0.28
ESR-1	9/4/2001	0 - 1	1.1 UJ	1.9	710	0.56 U	0.56 U	16 J	--	5.6 U	12 J	37.8	--	1.1 U	20.5	0.0037 U	0.0657 J	0.0056 U	0.14
HB-102A	3/13/2007	0 - 0	3.5 UJ	9.2	45	0.87 U	0.87 U	32.4	--	10.2 J	14.3	0.56	0.0000309	3.5 U	42.7	0.00064 U	0.034 U	0.081 U	0.020
HB-102B	3/14/2007	0 - 0	2.4 UJ	3.2	77.8 J	0.61 U	0.61 U	17.4 J	--	8 J	9.5	1.7	--	2.4 U	25.1 J	0.00044 U	0.023 U	0.032 U	0.014
HB-102C	3/14/2007	0 - 0	2.3 UJ	6.7	193 J	1	0.57 U	31.3 J	--	15.7 J	15.3	0.12	--	2.3 U	34.1 J	0.0004 U	0.022 U	0.027 U	0.013
HB-105E	2/8/2007	0 - 0	2.5 UJ	8.5	75.5	0.69	0.62 U	16.4	1.2 U	6.4	6.1	0.31 J	--	2.5 U	26.7	0.00043 U	0.023 U	0.032 U	0.014
HF-B1	9/10/2001	0 - 0.5	1.2 UJ	4.5	115	0.63	0.59 U	23.3	--	10.5	276	13.1	--	1.2 U	40	0.0041 U	0.08 U	0.012 U	0.054
HF-B2	9/4/2001	0 - 0.5	1.2 J	5	994	0.53 U	0.55	49.6 J	--	21.5	77 J	14.5	--	1.1 U	65.4	0.0037 U	0.074 U	0.0048 U	0.036
HF-B2 DUP (2)	9/4/2001	0 - 0.5	1 UJ	4.7	978	0.52 U	0.61	51.3 J	--	24.5	61.2 J	13.5	--	1 U	73	0.0035 U	0.37 U	0.0052 U	0.017
HF-B3	10/2/2001	0 - 0.5	1.1 UJ	6.7	2,730	0.55 U	0.55 U	30.1	--	19.6	37.3 J	199	--	1.1 U	60.9	0.0039 U	0.735	0.0061 U	0.020
IB-1	4/8/2002	0 - 2	1.1 UJ	4.4	55	0.55 U	0.55 U	15.4	--	6.6	126	190 J	--	1.1 U	19.9	0.0039 U	0.619	0.0011 J	0.019

ATTACHMENT A

Table A-5
Data Evaluated in the BERA
Upland Area Soil Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample ID	Date	Depth Interval (ft bgs)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent	Cobalt	Lead	Mercury	Methyl Mercury	Selenium	Vanadium	Alpha-Chlordane	Hexachloro-benzene	Trichloro-ethene (TCE)	Total PCBs (1)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LB-101	12/6/2006	0 - 1	2.2 UJ	6.3 J	54.4	0.54 UJ	0.92	13.9 J	--	5.6	12.9	0.075 J	--	2.2 U	24.3	0.00039 U	0.021 U	0.028 U	0.012
LB-102	12/6/2006	0 - 3	2.3 UJ	10.9 J	57.7	0.58 UJ	0.87	15.6 J	1.4 J	5.8 U	11	0.033 U	--	2.3 U	41.8	0.0004 U	0.021 U	0.03 U	0.012
LB-103	12/6/2006	0 - 1	60.8 J	73.2 J	585	16.4 J	2.9	36.3 J	--	261	3,990	0.082 J	--	6.1	36.5	0.00038 U	0.02 U	0.029 U	0.012
LHP-101	12/4/2006	0 - 1	2.9 J	16.4	185 J	0.79	1.7	36.2	1.1 U	15.6	195	6.5	--	2.3 U	66.4	0.0004 U	0.11 U	0.034 U	0.068
LHP-102	12/5/2006	0 - 1	4.5 J	17.4 J	176 J	9 J	1.8	69.2 J	2.7 J	30.3	602	7.3 J	--	2.3 U	49.8	0.00041 U	0.021 U	0.035 U	0.25
LHP-103	12/5/2006	0 - 1	2.3 UJ	8.4 J	112 J	0.56 U	0.62	18.2 J	--	9.9	87.5	1.1 J	--	2.3 U	30.6	0.0029 J	0.11 U	0.03 U	0.013
LHP-104	12/5/2006	0 - 1	4.2 J	6.7 J	48.2 J	1.3 J	0.5 U	16.2 J	--	11.8	163	0.69 J	--	2 U	13	0.00038 U	0.02 U	0.028 U	0.012
LHP-105	12/5/2006	0 - 1	202 J	335 J	1,710 J	18.7 J	14 U	131 J	--	681	11,700	14.2 J	--	55 U	140 U	0.00038 U	0.1 U	0.026 U	0.84
LHP-105 DUP (2)	12/5/2006	0 - 1	114 J	204 J	1,060 J	15.9 J	13 U	129 J	--	439	7,490	20.3 J	--	51 U	130 U	0.00037 U	0.059 U	0.026 U	0.012
LHP-106	12/4/2006	0 - 1	186 J	255	1,110 J	8.4	1.1 U	87.2	1.3	306	5,670	2.8	--	6.7	54.4	0.00037 U	0.099 U	0.025 U	0.012
LHP-107	12/5/2006	0 - 1	15.3 J	31.1 J	450 J	17.9 J	0.53 U	68.6 J	--	564	10,600	0.4 J	--	5.3	52.1	0.00038 U	0.021 U	0.024 U	0.012
LHP-108	12/6/2006	0 - 1	2.3 UJ	2.7 J	58.8	0.57 UJ	0.57 U	14.1 J	7.3 J	7.7	53.7	1.6 J	--	2.3 U	33.5	0.0061	0.022 U	0.031 U	0.013
LHP-109	12/6/2006	0 - 1	2.2 UJ	5.5 J	115	0.55 UJ	1.2	29.5 J	--	21.3	195	8.1 J	--	2.2 U	63.4	0.00041 U	0.022 U	0.032 U	1.2
LHP-110	12/4/2006	0 - 1	2.3 UJ	18.9	869 J	0.58 U	1	33.5	1.2 U	31.5	207	16.5	--	2.3 U	77.4	0.00041 U	0.22 U	0.054 U	0.21
LHP-111	12/4/2006	0 - 1	2.2 UJ	10.9	508 J	0.55 U	0.55 U	20.4	1.1 U	7.5	23.7	5.8	--	2.2 U	30.9	0.0004 U	0.021 U	0.026 U	0.012
LHP-112	12/4/2006	0 - 1	2.3 UJ	3.2	41.1 J	0.57 U	0.57 U	15.2	1.1 U	6.6	15.6	0.77	0.000437	2.3 U	27.3	0.0004 U	0.022 U	0.027 U	0.013
LHP-113	12/4/2006	0 - 1	2.1 UJ	6.5	96.9 J	0.54 U	1	11	1.1 U	15.8	21.3	4.7	--	2.1 U	57.8	0.00038 U	0.0333 J	0.025 U	1.2
LHP-114	12/4/2006	0 - 1	2.1 UJ	21.1	325 J	0.53 U	1.4	20.7	1.1 U	16.7	81	54.2	--	2.1 U	46	0.00039 U	0.021 U	0.025 U	0.17
LHP-115	12/4/2006	0 - 1	2.1 UJ	2.1 U	21 UJ	0.53 U	0.83	4.7	1.1 U	17.9	3.2	2.3	--	2.1 U	60.5	0.00037 U	0.02 U	0.024 U	0.011
LHP-116	12/4/2006	0 - 1	2.3 UJ	23.5	98.8 J	0.58 U	0.78	14.7	1.1 U	10.1	61.9	3.9	0.00109	2.3 U	32.1	0.0004 U	0.022 U	0.027 U	0.45
LHP-117	12/4/2006	0 - 1	2.4 UJ	15.6	83.2 J	0.6 U	1.2	21.7	1.2 U	7.8	37.9	4.2	--	2.4 U	35.2	0.00042 U	0.022 U	0.029 U	0.27
LHP-118	12/4/2006	0 - 1	5.6 J	14.8	310 J	10.1	1.2	18.3	3.3	108	1,590	23	--	2.9	42.5	0.00042 U	0.11 U	0.037 U	0.74
LHP-119	12/4/2006	0 - 1	5.3 J	25.6	198 J	0.65	0.9	14.4	1.2 U	14.4	159	0.18	--	2.4 U	26.6	0.00041 U	0.022 U	0.035 U	0.013
LHP-120	12/4/2006	0 - 1	4.3 J	22.3	355 J	0.67 U	2.2	169	1.3 U	14.9	119	1.9	--	2.7 U	45.6	0.00046 U	0.025 U	0.047 U	0.014
LHP-121	12/6/2006	0 - 1	2.2 UJ	6.2 J	111	0.54 UJ	1.8	27.2 J	--	17.5	110	4.2 J	--	2.2 U	58.2	0.0004 U	0.022 U	0.035 U	0.19
LHP-122	12/6/2006	0 - 1	2.1 UJ	5.3 J	90	0.53 UJ	1.5	41.3 J	--	20.2	76.9	7.4 J	--	2.1 U	61.4	0.0018 J	0.021 U	0.028 U	0.20
LHP-123	12/4/2006	0 - 1	16.1 J	29.1	206 J	0.58	1.2	27.8	1.2 U	34.8	353	2.9	0.000203	2.2 U	56.6	0.0067 J	0.022 U	0.031 U	0.078
LHP-127	12/6/2006	0 - 1	49.2 J	51.8 J	1,200	27.3 J	3.3	77.2 J	3.6 J	792	9,660	82.4 J	--	11 U	73.8	0.00038 U	0.02 U	0.036 U	0.036
LHP-128	12/6/2006	0 - 1	82.7 J	109 J	945	26.2 J	6	76.7 J	2.2 J	965	15,600	0.41 J	--	10 U	69.3	0.001 U	0.02 U	0.024 U	0.032
LHP-128 DUP (2)	12/6/2006	0 - 1	72.5 J	109 J	986	26.7 J	5.8	71.8 J	3.8 J	956	15,300	0.43 J	--	10 U	66.8	0.001 U	0.02 U	0.024 U	0.032
LP-1	8/27/2001	0 - 0.5	1.1 UJ	1.9	495	0.54 U	0.54 U	5.6	--	5.4 U	9	11	--	1.1 U	11	0.0036 U	0.075 U	0.0062 U	0.092
LP-10	8/27/2001	0 - 0.5	1.1 UJ	9.2	3,220	4.5	4.2	40.7	--	14.3	196	1,820	--	1.2	33.1	0.0039 U	3.35	0.0062 U	1.1
LP-102	12/4/2006	0 - 1	--	--	--	--	--	--	--	--	--	787	0.0899	--	--	--	--	--	--
LP-11	8/27/2001	0 - 0.5	1.1 UJ	20.1	6,160	1.8	9	43	--	15.3	350	852	--	1.2	39.2	0.004 U	0.852	0.0067 U	0.58
LP-12	8/27/2001	0 - 0.5	1.1 UJ	3.7	9,570	0.81	0.73	13.1	--	12	45.3	331	--	1.1 U	21.4	0.0035 U	0.206	0.0072 U	0.17
LP-13	8/24/2001	0 - 0.5	1.2 UJ	9.2	1,260	0.65	2.1	38	--	9.6	112	1,200	--	1.2 U	38.1	0.0043 U	0.608	0.005 U	0.43
LP-14	8/24/2001	0 - 0.5	1.1 UJ	62.2	6,790	0.56 U	0.56 U	35	--	7.2	71.7	79.8	--	1.3	25.1	0.0038 U	0.37 U	0.0064 U	0.088
LP-15	8/24/2001	0 - 0.5	1.1 UJ	5.5	5,720	0.81	1.4	23.4	--	9.8	47.3	297	--	1.1 U	28.2	0.0042 U	0.257	0.0068 U	0.49
LP-16	8/27/2001	0 - 0.5	1 UJ	8.4	5,160	2.5	1.2	25.5	--	11.3	128	733	--	1 U	52	0.0037 U	0.545	0.0073 U	0.76
LP-2	8/28/2001	0 - 0.5	1.1 UJ	18.8	4,190 J	0.55 U	1.8	19.1	--	5.5 U	81.8	304	--	1.1 U	22.1	0.0042 U	1.22	0.0069 U	0.53
LP-3	8/27/2001	0 - 0.5	1.2 UJ	6.7	3,360	0.58 U	0.73	25.9	--	16.1	39.5	246	--	1.2 U	48.7	0.0036 U	0.214	0.0057 U	0.17
LP-4	8/21/2001	0 - 0.5	2.2 UJ	4.5	2,390	0.55 U	1.2	18.7	--	11.1	45.8	73.8	--	1.1 U	30.7	0.0076 U	0.0667 J	0.58 U	0.019
LP-5	8/27/2001	0 - 0.5	5.7 UJ	20.6	10,500	0.94	7.1	40.4	--	14.5	288	732	--	1.2	38.7	0.0037 U	1.09	0.0062 U	1.0
LP-6	8/27/2001	0 - 0.5	5.4 UJ	5.8	5,930	0.93	0.64	50.3	--	22.7	61.4	378	--	1.1 U	65.1	0.0037 U	0.392	0.0064 U	1.1
LP-7	8/24/2001	0 - 0.5	1.2 UJ	16.9	889	3	5	52.4	--	13.9	149	1,350	--	1.8	33.6	0.0042 U	2.88	0.005 U	0.74
LP-8	8/24/2001	0 - 0.5	1.2 UJ	4.6	508	1	0.59 U	9.2	--	5.9 U	33.1	22	--	1.2 U	15.6	0.0041 U	0.081 U	0.0062 U	0.020
LP-8 DUP (2)	8/24/2001	0 - 0.5	1.2 UJ	4.8	801	1	0.58 U	9.6	--	5.8 U	33	13.4	--	1.2 U	13.8	0.0039 U	0.077 U	0.0063 U	0.021
LP-9	8/24/2001	0 - 0.5	1.1 UJ	13.5	4,530	0.54 U	0.73	26.4	--	12.8	49.2	48.6	--	1.1 U	37.3	0.0038 U	0.37 U	0.007 U	0.098
MW-6D	11/8/2006	0 - 2	2.2 UJ	5.4	6,740 J	0.56 U	0.56 UJ	20.2 J	--	5.6 U	19.3 J	203	--	2.2 U	56.1	0.0004 U	0.0764	0.028 U	0.013
PCA-1	7/17/2001	0 - 0.5	1 UJ	5.2	229	0.51 U	0.51 U	27.2	--	16.2	60.7 J	5.7	--	1 U	63.8 J	0.0013	0.36 U	0.039 U	0.11

ATTACHMENT A

Table A-5
Data Evaluated in the BERA
Upland Area Soil Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample ID	Date	Depth Interval (ft bgs)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent	Cobalt	Lead	Mercury	Methyl Mercury	Selenium	Vanadium	Alpha-Chlordane	Hexachloro-benzene	Trichloro-ethene (TCE)	Total PCBs [1]
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCA-2	7/17/2001	0 - 0.5	1.1 UJ	8.8	2,780	0.56 U	2.6	46.4	--	14.3	60.8 J	1,020	--	1.1 U	47.4 J	0.00073 U	167	0.0049 U	4.0
PCA-3	9/13/2001	0 - 0.5	14 J	16.5	359	5	0.56 U	40.4	--	124	1,530	50.9	--	1.5	56.6	0.0038 U	0.0848 J	0.0027 J	0.39
PCA-4	9/13/2001	0 - 0.5	1.1 UJ	7.7	1,120	0.72	0.54 U	26.2	--	17.8	32.9	121	--	1.1 U	79.2	0.0037 U	0.892	0.0056 U	0.84
PCA-4 DUP [2]	9/13/2001	0 - 0.5	1.4 J	22	1,320	1.5	0.54 U	31.6	--	15.3	120	87.8	--	1.1 U	52.3	0.0037 U	1.63	0.0091 U	0.56
PCA-5	9/7/2001	0 - 0.5	1.2 UJ	5.7	193	0.59 UJ	0.59 U	23.4	--	6.2	42.7 J	1,550	--	1.2 U	37.1	0.0041 U	0.427	0.0144	0.43
PCA-6	9/7/2001	0 - 0.5	1 UJ	9.4	1,050	1.3 J	2.6	84.3	--	23.5	309 J	308	--	1	52.3	0.0038 U	0.724	0.0063 U	0.019
RR-1	8/22/2001	0 - 0.5	1.1 UJ	6.7	556	0.56 U	1.2	30.2	--	15.9	74.3	152	--	1.1 U	56.5	0.037 U	0.141	0.0048 U	0.41
RR-10	10/12/2001	0 - 0.5	1.3 J	12.5	251	0.55 U	0.55 U	35.6	--	7.7	111	2.8	--	2.8	41	0.0037 UJ	0.074 U	0.0064 U	0.13
RR-11	10/12/2001	0 - 0.5	1.2 UJ	12.7	167	0.61 U	0.69	42.2	--	9	128	1.6	--	3.3	51	0.004 U	0.08 U	0.0063 U	0.020
RR-11 DUP [2]	10/12/2001	0 - 0.5	1.1 UJ	11	148	0.53 U	0.59	35.6	--	9	104	2.4	--	2.5	43.3	0.0078	0.077 U	0.007 U	0.019
RR-12	10/12/2001	0 - 0.5	1.1 UJ	16.4	276	0.56 U	1.1	33.3	--	13.9	138	2.4	--	2.6	46.3	0.004 U	0.078 U	0.0052 U	0.019
RR-2	9/13/2001	0 - 0.5	1.2 UJ	1.2 U	422	0.59 U	0.59 U	25.8	--	21.4	8.6	15.2	--	1.2 U	81.6	0.0039 U	0.42 U	0.005 U	0.033
RR-3	9/13/2001	0 - 0.5	1.1 UJ	8.1	740	0.55 U	1	46.9	--	25.1	45.5	84.9	--	1.1 U	77.2	0.0038 U	39.1	22.2	0.90
RR-4	9/10/2001	0 - 0.5	1.2 UJ	4.6	298	1.4	0.72	54	--	19	202	74.5	--	1.2 U	45.2	0.0038 U	1.02	0.0082 U	0.78
RR-5	9/10/2001	0 - 0.5	1 UJ	1.4	142	0.5 U	0.5 U	7.3	--	11.6	9.8	2.6	--	1 U	94.5	0.0032 U	0.069 U	0.0072 U	0.82
RR-6	9/10/2001	0 - 0.5	1 UJ	4.7	554	0.51 U	0.88	17	--	14.1	24.5	51.9	--	1 U	55.5	0.0038 U	0.0406 J	0.0063 U	0.18
RR-7	9/10/2001	0 - 0.5	1.7 J	9.2	350	0.58	1	33.9	--	14	76.2	125	--	1.1 U	45.6	0.004 U	0.0931	0.0051 U	0.28
RR-8	9/26/2001	0 - 0.5	1.2 UJ	10	322	0.59 U	1.1	36.1	--	18.1	139	28.8	--	1.9	81.9	0.0043 U	0.086 U	0.0074 U	0.27
RR-9	10/12/2001	0 - 0.5	1 UJ	11	293	0.53 U	0.7	40.5	--	10.9	152	6.8	--	3.1	57.3	0.0037 U	0.073 U	0.0066 U	0.018
SILO-B1	9/6/2001	0 - 0.5	1.2 UJ	14.4	--	0.59 U	0.59 U	26.9 J	--	7.3	94.2 J	382	--	1.2 U	36.4	0.0042 U	0.0879	0.0053 U	1.5
SILO-B2	9/6/2001	0 - 0.5	1.1 UJ	4.7	--	0.56 U	0.56 U	19.1 J	--	6	41 J	791	--	1.1 U	21	0.004 U	0.306 J	0.0052 U	0.020
SILO-B3	9/6/2001	0 - 0.5	1.1 UJ	13.4	--	0.57	8.8	35.8 J	--	9.1	110 J	132	--	1.1 U	36.1	0.004 U	0.41 U	0.005 U	15
SILO-B4	9/6/2001	0 - 0.5	1.2 UJ	19.7	--	0.71	0.78	65.7 J	--	16.8	153 J	106	--	2	49.4	0.0042 U	0.42 U	0.008 U	2.1
SPR-1	9/5/2001	0 - 0.5	1.1 UJ	6.4	1,310	0.53 UJ	0.53 U	28.6 J	--	14.9	61.1 J	109	--	1.1 U	64.3	0.0097	0.38 U	0.0057 U	0.063
SPR-2A	7/19/2001	0 - 0.5	1.1 UJ	4.6 J	279	0.56 UJ	1.6	36.1	--	17.7	55.7	84.2	--	1.1 U	45.3	0.00083 U	0.302	0.009 U	1.0
SPR-2B	7/19/2001	0 - 0.5	1.1 U	6.9	1,090	0.6	2.4	55.2	--	20.1	110	153	--	1.1 U	60.1	0.00078 U	0.436	0.012 U	1.2
SPR-3	8/21/2001	0 - 0.5	5.2 J	11.5	324	15.1	1.8	94	--	65.9	657	20.4	--	2.3	38.2	0.00075 U	0.0835	0.43 U	3.2
SPR-4A	7/19/2001	0 - 0.5	1.2 UJ	5.8 J	1,460	0.6 UJ	3.1	52	--	19.1	125	85.1	--	1.2 U	57.3	0.00083 U	0.307	0.005 U	0.13
SPR-4B	8/22/2001	0 - 0.5	1.2 U	8.9	131	0.6 U	0.72	15.4	--	7.8	40.1	6.5	--	1.2 U	30.2	0.038 U	0.08 U	0.0039 J	0.16
SPR-4C	8/23/2001	0 - 0.5	1.1 UJ	240	502	0.56 U	6.9	52.9	--	12.5	87.7	169	--	3.7	43.8	0.0039 U	1.11	0.0058 U	1.6
SPR-5	9/5/2001	0 - 0.5	1 UJ	6.6	123	0.52 UJ	0.61	26.4 J	--	12.8	56.6 J	36.2	--	1 U	69	0.0036 U	2.1 U	0.006 U	0.16
SPR-6	9/13/2001	0 - 0.5	1.1 UJ	2.3	41.7	0.54 U	0.54 U	13	--	24	12.1	3.2	--	1.1 U	101	0.0036 U	0.068 U	0.0053 U	0.033
SR-1	7/17/2001	0 - 0.5	5.5 UJ	24.4	409	1.3	17.7	180	--	19.3	285 J	362	--	6.5	27 U	0.00071 U	0.246	0.0058 U	0.018
SR-2	7/17/2001	0 - 0.5	2.3 J	17.4	395	3.8	12.4	121	--	19.7	395 J	6,210	--	2.5	34.2 J	0.00067 U	0.437	0.0067 U	0.50
SS-08-09	5/15/2008	0 - 1	--	--	--	--	--	--	--	--	--	1,720	--	--	--	--	--	--	--
SS-08-10	5/15/2008	0 - 1	--	--	--	--	--	--	--	--	--	7,870	--	--	--	--	--	--	--
SS-08-11	5/15/2008	0 - 0.5	--	--	--	--	--	--	--	--	--	4,760	--	--	--	--	--	--	--
SS-08-12	5/15/2008	0 - 0.5	--	--	--	--	--	--	--	--	--	6,840	--	--	--	--	--	--	--
ST-1	9/5/2001	0 - 0.5	1.1 UJ	2.6	237	0.54 UJ	0.54 U	21.4 J	--	18.4	22.4 J	59	--	1.1 U	55.7	0.0039 U	0.4 U	0.005 U	0.13
ST-2	9/5/2001	0 - 0.5	7.9 J	28.6	4,050	0.64 J	1	41.9 J	--	23.3	362 J	270	--	1.1 U	52.1	0.0131 J	1.29	0.0048 U	0.23
ST-3	9/4/2001	0 - 0.5	1.1 UJ	1.2	51.2	0.57 U	0.57 U	4.8 J	--	5.7 U	10.4 J	6.4	--	1.1 U	10	0.0037 U	0.079 U	0.0059 U	0.018
TES-1	12/5/2006	0 - 1	2.3 UJ	5.7 J	101	0.57 UJ	3.1	48.2 J	--	14.3	68.9	91.8 J	--	2.9	69.8	0.00041 U	0.11 U	0.037 U	5.4
TES-2	12/4/2006	0 - 1	2.4 UJ	2.4 U	170 J	0.61 U	1.1	13.5	--	10.3	8.2	138	--	2.4 U	38.8	0.00044 U	0.331 J	0.042 U	0.014
TES-3	12/4/2006	0 - 1	2.5 UJ	14.6	1,020 J	0.63 U	5.8	104	--	14.5	104	815	--	4.5	50.8	0.00045 U	0.222 J	0.036 U	5.6
TES-4	12/5/2006	0 - 1	20.9 J	32.3 J	289 J	6.9 J	1.6	17.7 J	--	113	1,350	65 J	--	2.6	31.5	0.00039 U	0.021 U	0.043 U	1.0
TLN-1	8/20/2001	0 - 0.5	1.2 UJ	23.3	297	2.9	0.62 U	167	--	22.1	80.7	211	--	2.8	49	0.21 U	121	0.0056 U	0.021
TLN-2	7/19/2001	0 - 0.5	1 UJ	3.3 J	301	0.62 J	1.8	38.9	--	25.1	49.1	21.5	--	1 U	71.8	0.00076 U	0.655	0.0076 U	0.32
TLN-3	7/17/2001	0 - 0.5	1.1 UJ	3.2	2,170	0.75	1.2	31.5	--	13.2	58.8 J	26.8	--	1.1 U	56.6 J	0.00072 U	1.45	0.0061	1.0
TLN-4	8/20/2001	0 - 0.5	1 UJ	4.3	903	1.4	0.52 U	55.8	--	20.1	77.6	128	--	1 U	54.6	0.036 U	0.593	0.0054 U	1.3
TLN-4 DUP [2]	8/20/2001	0 - 0.5	1 UJ	5.2	1,030	0.76	0.81	39.3	--	17.1	63.5	128	--	1 U	57.9	0.034 U	0.867	0.0048 U	1.7

ATTACHMENT A

Table A-5
Data Evaluated in the BERA
Upland Area Soil Data
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample ID	Date	Depth Interval (ft bgs)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent	Cobalt	Lead	Mercury	Methyl Mercury	Selenium	Vanadium	Alpha-Chlordane	Hexachloro-benzene	Trichloro-ethene (TCE)	Total PCBs (1)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TLN-5	8/20/2001	0 - 0.5	1 UJ	**9.1**	**84.3**	0.52 U	**0.7**	**25.8**	--	**10.1**	**32.6**	**1.9**	--	1 U	**48.1**	0.014 U	0.072 U	0.0066 U	**0.26**
TLN-6	8/20/2001	0 - 0.5	1.1 UJ	**12.8**	**211**	**10.5**	**1.1**	**171**	--	**32.1**	**534**	**58.2**	--	**1.2**	**56.5**	0.037 U	**0.164**	0.0048 U	**0.83**
TLS-1	9/5/2001	0 - 0.5	1 UJ	**2.8**	**97.3**	**6.6 J**	0.53 U	**61.1 J**	--	**33.3**	**261 J**	**7.8**	--	**1.1**	**45.8**	0.0037 U	0.39 U	0.012 U	**0.45**
TLS-10	8/21/2001	0 - 0.5	5.7 UJ	**1.1**	**109**	0.57 U	0.57 U	**27.6**	--	**23.8**	**32.9**	**32.1**	--	1.1 U	**61.8**	0.00076 U	**0.0238 J**	0.52 U	**1.4**
TLS-11	9/7/2001	0 - 0.5	1.1 UJ	**5**	**199**	**2.8 J**	0.56 U	**116**	--	**26.2**	**212 J**	**44.2**	--	**1.1**	**73.7**	0.00077 U	**0.0624 J**	0.007 U	**0.78**
TLS-2	9/7/2001	0 - 0.5	1 UJ	**2.7**	**93.8**	**0.58 J**	0.53 U	**30.9**	--	**18.3**	**58.3 J**	**13.7**	--	1 U	**56.3**	0.00075 U	0.37 U	0.0052 U	**0.21**
TLS-3	8/21/2001	0 - 0.5	5.4 UJ	**4**	**451**	0.54 U	**1.4**	**56.5**	--	**24.4**	**73.6**	**76.9**	--	1.1 U	**67.7**	0.00073 U	0.074 U	0.46 U	**1.7**
TLS-4	9/7/2001	0 - 0.5	1 UJ	**7.8**	**769**	**2.8 J**	**4.3**	**101**	--	**40.9**	**423 J**	**712**	--	**1.4**	**69.8**	0.0034 U	**3.86**	0.0052 U	**0.019**
TLS-5	8/21/2001	0 - 0.5	2.2 UJ	**13.4**	**1,160**	**3.5**	**14.6**	**168**	--	**38**	**356**	**461**	--	**5.2**	**67.7**	0.18 U	**2.31**	0.0053 U	**7.6**
TLS-6	8/21/2001	0 - 0.5	**16.4 J**	**23.1**	**249**	**0.76**	**42.1**	**169**	--	**22.8**	**1,660**	**144**	--	**2.6**	**249**	0.0073 U	**0.0408 J**	0.47 U	**8.3**
TLS-7	8/21/2001	0 - 0.5	1.2 UJ	**26**	**3,600**	**0.64**	**3.4**	**107**	--	**27.9**	**148**	**161**	--	**5**	**60.3**	0.0073 U	**0.167**	0.55 U	**2.0**
TLS-8	9/7/2001	0 - 0.5	1.1 UJ	**6.9**	**221**	**1.9 J**	**1**	**67.5**	--	**24.6**	**259 J**	**75.3**	--	**1.4**	**57.7**	0.0039 U	**0.336**	0.0057 U	**2.6**
TLS-9	8/21/2001	0 - 0.5	1.1 UJ	**1.7**	**335**	0.55 U	**0.58**	**15**	--	**8.4**	**54.3**	**76.6**	--	1.1 U	**55.2**	0.0068 U	**0.263 J**	0.45 U	**0.16**
WWT-1A	7/19/2001	0 - 0.5	1.2 UJ	**5.8 J**	**362**	0.58 UJ	0.58 U	**24.7**	--	**9.4**	**96.8**	**410**	--	1.2 U	**52.6**	0.00082 U	**0.915**	0.0074 U	**0.75**
WWT-2	8/23/2001	0 - 0.5	1 UJ	**6.8**	**542 J**	0.52 U	**0.62**	**26**	--	**12.9**	**70**	**146**	--	1 U	**50.8**	**0.0216 J**	**0.27**	0.0058 U	**1.2**
WWT-3	8/23/2001	0 - 0.5	5.4 UJ	**3.8**	**3,280 J**	0.54 U	0.54 U	**34.5**	--	**21.8**	**66**	**197**	--	1.1 U	**73.2**	**0.0232 J**	**1.03**	0.0064 U	**2.6**

Notes:
(1) Total PCBs are the sum of Aroclor 1254 Aroclor 1260, assuming one-half the detection limit for non-detect results. No other Aroclors were detected in soil. Note that because detection limits were included in the summation at one-half the detection limit, Total PCB values were entered in ProUCL as detected concentrations ("1" qualifier). Summations are presented in Table A-7. Total PCBs were calculated prior to applying the duplicate handling process.
(2) DUP = Duplicate sample; prior to conducting data analysis, duplicate samples were processed as follows:
- 2 detected results and a relative percent difference (RPD) ≤ 25%, average concentration
- 2 detected results and a RPD > 25%, maximum concentration
- 1 detected result and 1 non-detect result, detected result
- 2 non-detect results, average method detection limit (MDL)

Definitions:
ft bgs = feet below ground surface

mg/kg = milligram per kilogram
PCB = polychlorinated biphenyl
Bold = detected concentration
J = estimated value
U = non-detect value; MDL presented
"--" = Data not available

ATTACHMENT A

Table A-6
Data Evaluated in the BERA
Total PCB Summations - South Branch Creek Sediment
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect [1]	Sample ID	Date	Depth Interval (ft bgs)	Aroclor 1254		Aroclor 1260		Total PCBs [2]
				mg/kg		mg/kg		mg/kg
Transect A	SED-1	8/22/2001	0 - 0.5	0.952		0.023	U	0.96
	CF-2	8/28/2001	0 - 0.5	0.11		0.023	U	0.12
	CF-3	8/28/2001	0 - 0.5	0.028	U	0.028	U	0.028
	CF-4	8/28/2001	0 - 0.5	0.227	J	0.024	U	0.24
	EC-1	8/21/2001	0 - 1	0.018	U	0.018	U	0.018
	LM-A-1	9/21/2006	0 - 0.5	0.044	UJ	0.019	UJ	0.032
	LM-A-2	9/21/2006	0 - 0.5	0.041	UJ	0.018	UJ	0.030
	LM-A-3	9/21/2006	0 - 0.5	0.039	UJ	0.016	UJ	0.028
	LM-A-4	10/10/2006	0 - 0.5	0.041	U	0.018	U	0.030
	SED-2	8/22/2001	0 - 0.5	1.12		0.13	U	1.2
	SED-7	10/10/2006	0 - 0.5	0.547		0.027	U	0.56
	SED-8	10/10/2006	0 - 0.5	2.73		0.017	U	2.7
	SED-A-1	10/9/2006	0 - 0.5	0.327		0.032	U	0.34
	SED-A-2	10/9/2006	0 - 0.5	0.033	U	0.014	U	0.024
	SED-A-3	10/9/2006	0 - 0.5	0.28		0.029	U	0.29
	SED-9	10/10/2006	0 - 0.5	0.346		0.012	U	0.35
	EC-2	8/21/2001	0 - 1	0.019	U	0.0275		0.037
Transect B	EC-3	8/21/2001	0 - 1	0.018	U	0.018	U	0.018
	BSL-1	9/20/2001	0 - 1	0.14		0.021	U	0.15
	BSL-2	9/21/2001	0 - 1	0.025	U	0.025	U	0.025
	BSL-3	9/20/2001	0 - 0.5	0.019	U	0.019	U	0.019
	SED-3	8/22/2001	0 - 0.5	0.072	U	0.072	U	0.072
	EC-4	8/21/2001	0 - 1	0.019	U	0.019	U	0.019
	EC-4 DUP [3]	8/21/2001	0 - 1	0.018	U	0.018	U	0.018
	BSL-4	9/21/2001	0 - 1	0.0293		0.022	U	0.040
	BSL-5	9/21/2001	0 - 0.5	0.019	U	0.019	U	0.019
	SED-B-1	10/6/2006	0 - 0.5	0.043	U	0.342		0.36
	SED-B-2	10/6/2006	0 - 0.5	0.02	U	0.0087	U	0.014
	SED-B-3	10/6/2006	0 - 0.5	0.028	U	0.012	U	0.020
	LM-B-1	10/10/2006	0 - 0.5	0.034	U	0.014	U	0.024
	LM-B-2	10/10/2006	0 - 0.5	0.029	U	0.012	U	0.021
	LM-B-3	10/4/2006	0 - 0.5	0.02	U	0.0087	U	0.014
	LM-B-4	10/4/2006	0 - 0.5	0.022	U	0.0094	U	0.016
	BSL-6	9/26/2001	0 - 1	0.027	U	0.027	U	0.027
	BSL-7	9/21/2001	0 - 0.5	0.064	U	0.064	U	0.064
	BSL-7 DUP [3]	9/21/2001	0 - 0.5	0.023	U	0.023	U	0.023
	BSL-8	9/26/2001	0 - 1	0.027	U	0.027	U	0.027
	BSL-9	9/21/2001	0 - 0.5	0.0552		0.02	U	0.065
	EC-5	8/21/2001	0 - 1	0.018	U	0.018	U	0.018
	BSL-10	9/21/2001	0 - 1	0.026	U	0.026	U	0.026
	BSL-10 DUP [3]	9/21/2001	0 - 1	0.022	U	0.022	U	0.022
	BSL-11	9/26/2001	0 - 1	0.025	U	0.025	U	0.025
	BSL-12	9/26/2001	0 - 1	0.062		0.02	U	0.072

ATTACHMENT A

Table A-6
Data Evaluated in the BERA
Total PCB Summations - South Branch Creek Sediment
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect [1]	Sample ID	Date	Depth Interval (ft bgs)	Aroclor 1254		Aroclor 1260		Total PCBs [2]
				mg/kg		mg/kg		mg/kg
Transect C	EC-6	8/21/2001	0 - 1	0.021	U	0.021	U	0.021
	SED-4	8/22/2001	0 - 0.5	0.039	UJ	0.039	UJ	0.039
	LM-C-1	10/10/2006	0 - 0.5	0.033	U	0.014	U	0.024
	LM-C-2	10/10/2006	0 - 0.5	0.025	U	0.011	U	0.018
	LM-C-2 DUP [3]	10/10/2006	0 - 0.5	0.062	U	0.062	U	0.062
	LM-C-3	10/10/2006	0 - 0.5	0.037	U	0.016	U	0.027
	LM-C-4	10/10/2006	0 - 0.5	0.033	U	0.014	U	0.024
	SED-C-1	10/6/2006	0 - 0.5	0.058	U	0.201		0.23
	SED-C-2	10/6/2006	0 - 0.5	0.046	U	0.02	U	0.033
	SED-C-3	10/6/2006	0 - 0.5	0.045	U	0.429		0.45
	SC-1	8/21/2001	0 - 1	2.25		0.021	U	2.3
	EC-7	8/21/2001	0 - 1	0.02	U	0.02	U	0.020
	SC-2	8/22/2001	0 - 1	0.018	U	0.0281	J	0.037
Transect D	EC-8	8/21/2001	0 - 1	0.018	U	0.018	U	0.018
	LM-D-1	10/9/2006	0 - 0.5	0.059	U	0.025	U	0.042
	LM-D-2	10/9/2006	0 - 0.5	0.096	U	0.041	U	0.069
	LM-D-3	10/9/2006	0 - 0.5	0.074	U	0.032	U	0.053
	LM-D-4	10/9/2006	0 - 0.5	0.1	U	0.043	U	0.072
	SED-D-1	10/5/2006	0 - 0.5	0.064	UJ	0.027	UJ	0.046
	SED-D-2	10/5/2006	0 - 0.5	0.051	UJ	0.022	UJ	0.037
	SED-D-3	10/5/2006	0 - 0.5	0.095	UJ	0.041	UJ	0.068
	SC-3	8/22/2001	0 - 1	0.019	U	0.019	U	0.019
	SED-5	8/22/2001	0 - 0.5	0.06	UJ	0.06	UJ	0.060
Transect E	EC-9	8/21/2001	0 - 1	0.02	U	0.0323		0.042
	LM-E-1	10/9/2006	0 - 0.5	0.081	U	0.035	U	0.058
	LM-E-2	10/9/2006	0 - 0.5	0.078	U	0.033	U	0.056
	LM-E-3	10/5/2006	0 - 0.5	0.053	UJ	0.356	J	0.38
	LM-E-4	10/5/2006	0 - 0.5	0.047	UJ	0.02	UJ	0.034
	SED-E-1	10/3/2006	0 - 0.5	0.078	UJ	0.033	UJ	0.056
	SED-E-2	10/5/2006	0 - 0.5	0.04	UJ	0.162	J	0.18
	SED-E-3	10/3/2006	0 - 0.5	0.081	UJ	0.035	UJ	0.058

Notes:
(1) Samples are generally presented from upstream to downstream (i.e., moving from the Site towards the confluence of South Branch Creek with the Arthur Kill).
(2) Total PCBs are the sum of Aroclor 1254 Aroclor 1260, assuming one-half the detection limit for non-detect results. No other Aroclors were detected in sediment. Note that because detection limits were included in the summation at one-half the detection limit, Total PCB values were entered into ProUCL as detected concentrations ("1" qualifier). Total PCBs were calculated prior to applying the duplicate handling process.
(3) DUP = Duplicate sample; Total PCB duplicate samples were processed as follows:
- Relative percent difference ≤ 25%, average concentration
- Relative percent difference > 25%, maximum concentration

Definitions:
PCB = polychlorinated biphenyl
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
J = estimated value
U = non-detect value; detection limit presented

ATTACHMENT A

Table A-7
Data Evaluated in the BERA
Total PCB Summations - Upland Area Soil
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample ID	Date	Depth Interval (ft bgs)	Aroclor 1254		Aroclor 1260		Total PCBs [1]
			mg/kg		mg/kg		mg/kg
12K-B1	9/6/2001	0 - 0.5	2.1	J	0.02	U	2.1
12K-B2	9/6/2001	0 - 0.5	0.02	U	0.02	U	0.020
150K-1	9/10/2001	0 - 0.5	0.663		0.02	U	0.67
230-B1	10/2/2001	0 - 0.5	0.022	U	0.022	U	0.022
230-B2	8/30/2001	0 - 0.5	4.04	J	0.021	U	4.1
230-B3	8/30/2001	0 - 0.5	5.82	J	0.02	U	5.8
230-B4	8/30/2001	0 - 0.5	28.8	J	0.019	U	29
230-B5	9/13/2001	0 - 0.5	4.23	J	0.018	U	4.2
230-B6	8/22/2001	0 - 0.5	1.76	J	0.019	UJ	1.8
230-B7	8/22/2001	0 - 0.5	5.99		3.66		9.7
230-B9	8/22/2001	0 - 0.5	0.018	U	0.578		0.59
230-B9 DUP [2]	8/22/2001	0 - 0.5	0.018	U	0.999		1.0
230-B10	8/30/2001	0 - 0.5	7.43	J	0.026	U	7.4
230-B11	8/30/2001	0 - 0.5	2.72		0.02	U	2.7
231-B1	10/5/2001	0 - 0.5	2.64	J	0.02	U	2.7
231-B2	8/22/2001	0 - 0.5	2.98	J	0.019	U	3.0
231-B3	8/22/2001	0 - 0.5	11.9	J	0.02	U	12
231-B4	8/30/2001	0 - 0.5	0.142		0.02	U	0.15
231-B6	9/27/2001	0 - 0.5	0.02	U	0.02	U	0.020
231-B7	9/13/2001	0 - 0.5	0.737	J	0.022	U	0.75
231-B7 DUP [2]	9/13/2001	0 - 0.5	1.98	J	0.022	U	2.0
231-B8	9/27/2001	0 - 0.5	7.88	J	0.043	UJ	7.9
231-B9	9/27/2001	0 - 0.5	0.026	U	5.14	J	5.2
231-B10	9/17/2001	0 - 0.5	0.224		0.019	U	0.23
231-B11	9/19/2001	0 - 0.5	0.038	U	0.332		0.35
231-B12	9/17/2001	0 - 0.5	2.51		0.18	U	2.6
231-B13	9/19/2001	0 - 0.5	10.8	J	0.02	U	11
231-B14	9/19/2001	0 - 0.5	0.54	J	0.019	U	0.55
240-1	9/26/2001	0 - 0.5	12.8		0.022	U	13
5K-B1	10/1/2001	0 - 0.5	0.0832	J	0.02	U	0.093
5K-B2	8/31/2001	0 - 0.5	16.3		0.017	U	16
5K-B3	9/26/2001	0 - 0.5	6.68		0.019	U	6.7
5K-B4	10/1/2001	0 - 0.5	1.56	J	0.02	U	1.6
5K-B5	8/31/2001	0 - 0.5	0.02	U	0.02	U	0.020
AB-1	9/4/2001	0 - 0.5	1.7	J	0.02	U	1.7
AB-2	9/4/2001	0 - 0.5	1.36	J	0.02	U	1.4
ADN-1	9/5/2001	0 - 0.5	0.02	U	0.02	U	0.020
ADN-2	9/5/2001	0 - 0.5	0.0898		0.02	U	0.10
ADS-1	7/17/2001	0 - 0.5	0.018	U	0.0838		0.093
ADS-2	7/18/2001	0 - 0.5	0.02	U	0.02	U	0.020
ADS-2 DUP [2]	7/18/2001	0 - 0.5	0.019	U	0.019	U	0.019
ADS-3	7/18/2001	0 - 0.5	0.018	U	0.018	U	0.018
ADS-4	7/18/2001	0 - 0.5	0.018	U	0.594		0.60
ADS-5	7/18/2001	0 - 0.5	1.89	J	0.02	U	1.9
ADS-6	7/18/2001	0 - 0.5	0.02	U	1.38	J	1.4

ATTACHMENT A

Table A-7
Data Evaluated in the BERA
Total PCB Summations - Upland Area Soil
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample ID	Date	Depth Interval (ft bgs)	Aroclor 1254		Aroclor 1260		Total PCBs [1]
			mg/kg		mg/kg		mg/kg
ADS-7	7/17/2001	0 - 0.5	0.018	U	0.018	U	0.018
ADS-8	7/18/2001	0 - 0.5	0.02	U	0.02	U	0.020
ADS-9	7/18/2001	0 - 0.5	0.021	U	0.021	U	0.021
ADS-10	7/18/2001	0 - 0.5	0.855		0.381		1.2
ADS-11	7/18/2001	0 - 0.5	0.391		0.216		0.61
ADS-12	7/18/2001	0 - 0.5	0.176		0.121		0.30
ADS-101	12/5/2006	0 - 1	0.018	U	0.0078	U	0.013
ADS-102	12/5/2006	0 - 1.5	0.017	U	0.0075	U	0.012
BT-B1	9/18/2001	0 - 0.5	0.019	U	0.019	U	0.019
BT-B2	9/18/2001	0 - 0.5	0.022	U	0.022	U	0.022
BT-B3	9/18/2001	0 - 0.5	0.661	J	0.017	U	0.67
BT-B4	8/30/2001	0 - 0.5	0.512	J	0.018	U	0.52
BT-B5	10/2/2001	0 - 0.5	4.52	J	0.02	U	4.5
BT-B5 DUP [2]	10/2/2001	0 - 0.5	4.96	J	0.019	U	5.0
BT-B6	9/17/2001	0 - 0.5	0.649	J	0.019	U	0.66
CF-1	8/31/2001	0 - 0.5	0.0351		0.018	U	0.044
CF-5	8/28/2001	0 - 0.5	0.019	U	0.019	U	0.019
CF-6	8/28/2001	0 - 0.5	0.021	U	0.276		0.29
CF-6 DUP [2]	8/28/2001	0 - 0.5	0.0403		0.021	U	0.051
CF-7	8/28/2001	0 - 0.5	1.03		0.021	U	1.0
CF-8	8/28/2001	0 - 0.5	0.567	J	0.021	U	0.58
CF-9	8/31/2001	0 - 0.5	0.0955		0.019	U	0.11
DC-B12	10/3/2001	0 - 0.5	0.699		0.018	U	0.71
DC-SED1	9/20/2001	0 - 0.5	13.4	J	0.04	UJ	13
DC-SED2	9/20/2001	0 - 0.5	18.5	J	0.043	U	19
DC-SED3	9/20/2001	0 - 0.5	11.1	J	0.074	UJ	11
DC-SS1	9/18/2001	0 - 0.5	14.4	J	0.018	U	14
DC-SS11	9/17/2001	0 - 0.5	0.458		0.017	U	0.47
DC-SS13	9/17/2001	0 - 0.5	0.385	J	0.018	U	0.39
DC-SS15	9/17/2001	0 - 0.5	2.39	J	0.11	U	2.4
DC-SS17	9/17/2001	0 - 0.5	5.4	J	0.02	U	5.4
DC-SS18	9/17/2001	0 - 0.5	0.669	J	0.02	U	0.68
DC-SS2	9/17/2001	0 - 0.5	3.17	J	0.018	U	3.2
DC-SS3	9/17/2001	0 - 0.5	4.7	J	0.021	U	4.7
DC-SS6	9/17/2001	0 - 0.5	8.38	J	0.9	U	8.8
DC-SS7	9/17/2001	0 - 0.5	2.25	J	0.094	U	2.3
DC-SS9	9/17/2001	0 - 0.5	1.46	J	0.042	U	1.5
DSP-1	10/3/2001	0 - 0.5	4.08		0.019	U	4.1
DSP-2	9/4/2001	0 - 0.5	0.019	U	0.019	U	0.019
DSP-3	9/4/2001	0 - 0.5	0.295		0.139		0.43
DSP-4	9/4/2001	0 - 0.5	0.13		0.145		0.28
ESR-1	9/4/2001	0 - 1	0.129		0.018	U	0.14
HB-102A	3/13/2007	0 - 0	0.028	U	0.012	U	0.020
HB-102B	3/14/2007	0 - 0	0.019	U	0.0082	U	0.014
HB-102C	3/14/2007	0 - 0	0.018	U	0.0075	U	0.013

ATTACHMENT A

Table A-7
Data Evaluated in the BERA
Total PCB Summations - Upland Area Soil
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample ID	Date	Depth Interval (ft bgs)	Aroclor 1254		Aroclor 1260		Total PCBs [1]
			mg/kg		mg/kg		mg/kg
HB-105E	2/8/2007	0 - 0	0.019	U	0.008	U	0.014
HF-B1	9/10/2001	0 - 0.5	0.0433		0.021	U	0.054
HF-B2	9/4/2001	0 - 0.5	0.018	U	0.0272		0.036
HF-B2 DUP [2]	9/4/2001	0 - 0.5	0.017	U	0.017	U	0.017
HF-B3	10/2/2001	0 - 0.5	0.02	U	0.02	U	0.020
IB-1	4/8/2002	0 - 2	0.019	U	0.019	U	0.019
LB-101	12/6/2006	0 - 1	0.017	U	0.0073	U	0.012
LB-102	12/6/2006	0 - 3	0.017	U	0.0074	U	0.012
LB-103	12/6/2006	0 - 1	0.017	U	0.0072	U	0.012
LHP-101	12/4/2006	0 - 1	0.018	U	0.0587		0.068
LHP-102	12/5/2006	0 - 1	0.018	U	0.243		0.25
LHP-103	12/5/2006	0 - 1	0.018	U	0.0075	U	0.013
LHP-104	12/5/2006	0 - 1	0.017	U	0.0071	U	0.012
LHP-105	12/5/2006	0 - 1	0.629	J	0.21	J	0.84
LHP-105 DUP [2]	12/5/2006	0 - 1	0.016	UJ	0.007	UJ	0.012
LHP-106	12/4/2006	0 - 1	0.016	U	0.007	U	0.012
LHP-107	12/5/2006	0 - 1	0.017	U	0.0071	U	0.012
LHP-108	12/6/2006	0 - 1	0.018	U	0.0075	U	0.013
LHP-109	12/6/2006	0 - 1	0.848		0.349		1.2
LHP-110	12/4/2006	0 - 1	0.128		0.0856		0.21
LHP-111	12/4/2006	0 - 1	0.017	U	0.0074	U	0.012
LHP-112	12/4/2006	0 - 1	0.018	U	0.0075	U	0.013
LHP-113	12/4/2006	0 - 1	1.2		0.0071	U	1.2
LHP-114	12/4/2006	0 - 1	0.017	U	0.162		0.17
LHP-115	12/4/2006	0 - 1	0.016	U	0.0069	U	0.011
LHP-116	12/4/2006	0 - 1	0.449		0.0076	U	0.45
LHP-117	12/4/2006	0 - 1	0.269		0.0078	U	0.27
LHP-118	12/4/2006	0 - 1	0.018	U	0.733		0.74
LHP-119	12/4/2006	0 - 1	0.018	U	0.0077	U	0.013
LHP-120	12/4/2006	0 - 1	0.02	U	0.0086	U	0.014
LHP-121	12/6/2006	0 - 1	0.117		0.0723		0.19
LHP-122	12/6/2006	0 - 1	0.017	UJ	0.194	J	0.20
LHP-123	12/4/2006	0 - 1	0.018	U	0.0692		0.078
LHP-127	12/6/2006	0 - 1	0.05	U	0.021	U	0.036
LHP-128	12/6/2006	0 - 1	0.045	U	0.019	U	0.032
LHP-128 DUP [2]	12/6/2006	0 - 1	0.045	U	0.019	U	0.032
LP-1	8/27/2001	0 - 0.5	0.0834		0.018	U	0.092
LP-2	8/28/2001	0 - 0.5	0.517	J	0.021	U	0.53
LP-3	8/27/2001	0 - 0.5	0.163		0.018	U	0.17
LP-4	8/21/2001	0 - 0.5	0.019	U	0.019	U	0.019
LP-5	8/27/2001	0 - 0.5	1.04		0.018	U	1.0
LP-6	8/27/2001	0 - 0.5	1.07		0.018	U	1.1
LP-7	8/24/2001	0 - 0.5	0.731		0.021	U	0.74
LP-8	8/24/2001	0 - 0.5	0.02	U	0.02	U	0.020
LP-8 DUP [2]	8/24/2001	0 - 0.5	0.021	U	0.021	U	0.021

ATTACHMENT A

Table A-7
Data Evaluated in the BERA
Total PCB Summations - Upland Area Soil
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample ID	Date	Depth Interval (ft bgs)	Aroclor 1254		Aroclor 1260		Total PCBs [1]
			mg/kg		mg/kg		mg/kg
LP-9	8/24/2001	0 - 0.5	0.0892		0.018	U	0.098
LP-10	8/27/2001	0 - 0.5	1.12	J	0.02	U	1.1
LP-11	8/27/2001	0 - 0.5	0.574		0.02	U	0.58
LP-12	8/27/2001	0 - 0.5	0.157		0.018	U	0.17
LP-13	8/24/2001	0 - 0.5	0.415		0.021	U	0.43
LP-14	8/24/2001	0 - 0.5	0.019	U	0.0784		0.088
LP-15	8/24/2001	0 - 0.5	0.478		0.021	U	0.49
LP-16	8/27/2001	0 - 0.5	0.75		0.018	U	0.76
MW-6D	11/8/2006	0 - 2	0.018	U	0.0075	U	0.013
PCA-1	7/17/2001	0 - 0.5	0.018	U	0.0969		0.11
PCA-2	7/17/2001	0 - 0.5	4		0.018	U	4.0
PCA-3	9/13/2001	0 - 0.5	0.019	U	0.381		0.39
PCA-4	9/13/2001	0 - 0.5	0.831	J	0.019	U	0.84
PCA-4 DUP [2]	9/13/2001	0 - 0.5	0.546	J	0.018	U	0.56
PCA-5	9/7/2001	0 - 0.5	0.418	J	0.021	U	0.43
PCA-6	9/7/2001	0 - 0.5	0.019	U	0.019	U	0.019
RR-1	8/22/2001	0 - 0.5	0.397		0.018	U	0.41
RR-2	9/13/2001	0 - 0.5	0.0236	J	0.019	UJ	0.033
RR-3	9/13/2001	0 - 0.5	0.888	J	0.019	U	0.90
RR-4	9/10/2001	0 - 0.5	0.77		0.019	U	0.78
RR-5	9/10/2001	0 - 0.5	0.812		0.016	U	0.82
RR-6	9/10/2001	0 - 0.5	0.0964		0.087		0.18
RR-7	9/10/2001	0 - 0.5	0.152		0.129		0.28
RR-8	9/26/2001	0 - 0.5	0.134		0.137		0.27
RR-9	10/12/2001	0 - 0.5	0.018	U	0.018	U	0.018
RR-10	10/12/2001	0 - 0.5	0.019	U	0.125		0.13
RR-11	10/12/2001	0 - 0.5	0.02	U	0.02	U	0.020
RR-11 DUP [2]	10/12/2001	0 - 0.5	0.019	U	0.019	U	0.019
RR-12	10/12/2001	0 - 0.5	0.019	U	0.019	U	0.019
SILO-B1	9/6/2001	0 - 0.5	1.44	J	0.021	U	1.5
SILO-B2	9/6/2001	0 - 0.5	0.02	U	0.02	U	0.020
SILO-B3	9/6/2001	0 - 0.5	15.2		0.02	U	15
SILO-B4	9/6/2001	0 - 0.5	2.13		0.021	U	2.1
SPR-1	9/5/2001	0 - 0.5	0.0527		0.02	U	0.063
SPR-2A	7/19/2001	0 - 0.5	0.021	U	1.02		1.0
SPR-2B	7/19/2001	0 - 0.5	0.02	U	1.14		1.2
SPR-3	8/21/2001	0 - 0.5	0.019	U	3.16	J	3.2
SPR-4A	7/19/2001	0 - 0.5	0.021	U	0.115		0.13
SPR-4B	8/22/2001	0 - 0.5	0.154		0.019	U	0.16
SPR-4C	8/23/2001	0 - 0.5	0.952		0.618		1.6
SPR-5	9/5/2001	0 - 0.5	0.018	U	0.15		0.16
SPR-6	9/13/2001	0 - 0.5	0.018	U	0.0236		0.033
SR-1	7/17/2001	0 - 0.5	0.018	U	0.018	U	0.018
SR-2	7/17/2001	0 - 0.5	0.492		0.017	U	0.50
ST-1	9/5/2001	0 - 0.5	0.0626		0.0655		0.13

ATTACHMENT A

Table A-7
Data Evaluated in the BERA
Total PCB Summations - Upland Area Soil
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Sample ID	Date	Depth Interval (ft bgs)	Aroclor 1254		Aroclor 1260		Total PCBs [1]
			mg/kg		mg/kg		mg/kg
ST-2	9/5/2001	0 - 0.5	0.224		0.02	U	0.23
ST-3	9/4/2001	0 - 0.5	0.018	U	0.018	U	0.018
TES-1	12/5/2006	0 - 1	0.018	U	5.39		5.4
TES-2	12/4/2006	0 - 1	0.019	U	0.0083	U	0.014
TES-3	12/4/2006	0 - 1	5.59		0.0083	U	5.6
TES-4	12/5/2006	0 - 1	0.72		0.281		1.00
TLN-1	8/20/2001	0 - 0.5	0.021	U	0.021	U	0.021
TLN-2	7/19/2001	0 - 0.5	0.024	U	0.308		0.32
TLN-3	7/17/2001	0 - 0.5	0.018	U	0.99		1.00
TLN-4	8/20/2001	0 - 0.5	0.018	UJ	1.32	J	1.3
TLN-4 DUP [2]	8/20/2001	0 - 0.5	0.017	U	1.69		1.7
TLN-5	8/20/2001	0 - 0.5	0.158		0.103		0.26
TLN-6	8/20/2001	0 - 0.5	0.019	U	0.825	J	0.83
TLS-1	9/5/2001	0 - 0.5	0.018	U	0.444		0.45
TLS-2	9/7/2001	0 - 0.5	0.019	U	0.2		0.21
TLS-3	8/21/2001	0 - 0.5	1.17	J	0.491	J	1.7
TLS-4	9/7/2001	0 - 0.5	0.019	U	0.019	U	0.019
TLS-5	8/21/2001	0 - 0.5	7.61		0.018	U	7.6
TLS-6	8/21/2001	0 - 0.5	8.34	J	0.018	U	8.3
TLS-7	8/21/2001	0 - 0.5	1.98	J	0.018	U	2.0
TLS-8	9/7/2001	0 - 0.5	1.01	J	1.58	J	2.6
TLS-9	8/21/2001	0 - 0.5	0.017	U	0.151		0.16
TLS-10	8/21/2001	0 - 0.5	0.019	U	1.35	J	1.4
TLS-11	9/7/2001	0 - 0.5	0.382	J	0.399	J	0.78
WWT-1A	7/19/2001	0 - 0.5	0.74		0.019	U	0.75
WWT-2	8/23/2001	0 - 0.5	1.15	J	0.019	U	1.2
WWT-3	8/23/2001	0 - 0.5	2.64	J	0.018	U	2.6

Notes:
(1) Total PCBs are the sum of individual Aroclors. If an individual Aroclor was not detected in upland soil, it was excluded from the summation. Otherwise, non-detect results were included at one-half the detection limit. For duplicate Aroclors, the Total PCB concentration was calculated prior to applying the duplicate handling process.
(2) DUP = Duplicate sample; prior to conducting data analysis, Total PCB duplicate samples were processed as follows:
- Relative percent difference ≤ 25%, average concentration
- Relative percent difference > 25%, maximum concentration

Definitions:
PCB = polychlorinated biphenyl
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
J = estimated value
U = non-detect value; detection limit presented

ATTACHMENT A

Table A-8
Data Evaluated in the BERA
TCDD TECs for Ortho-PCBs - South Branch Creek Fiddler Crab Tissue
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect [1]	Sample ID [1]	PCB 77	PCB 81	PCB 126	PCB 169	PCB 105	PCB 114	PCB 118	PCB 123	PCB 156	PCB 167	PCB 189	Total Dioxin-Like PCBs [4]	% Solids [5]
	Avian TEF [2]:	0.05	0.1	0.1	0.001	0.0001	0.0001	0.00001	0.00001	0.0001	0.00001	0.00001		
	Mammalian TEF [3]:	0.0001	0.0003	0.1	0.03	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003		
Fiddler Crab (mg/kg wet wt)														
Transect A	FC-A-1	3.0E-04	2.6E-06 U	8.2E-07 U	1.7E-06 U	2.9E-03	6.7E-07 U	1.2E-02 J	6.3E-07 U	1.1E-03 J	5.1E-04	1.5E-05 U	1.7E-02	30.5
	FC-A-2	7.9E-04	2.9E-06 U	1.9E-04	1.9E-05 J	5.9E-03	2.4E-04	1.9E-02	2.0E-06 U	2.0E-03	9.9E-04	1.3E-04 J	2.9E-02	35.9
Transect B	FC-B-1	3.1E-04	2.4E-06 U	4.5E-05 J	6.2E-06 J	1.7E-03	6.5E-05 J	4.8E-03 J	4.6E-04	6.2E-04	3.4E-04	3.2E-05 J	8.4E-03	31.6
	FC-B-2	4.4E-04	1.2E-05 J	7.9E-05 J	1.9E-06 U	2.6E-03	1.1E-04	6.9E-03	2.5E-07 U	9.2E-04	4.2E-04	5.4E-05 J	1.1E-02	31.6
Transect C	FC-C-1	6.7E-04 J	1.5E-04	2.1E-04 J	3.1E-06 U	8.2E-03	2.6E-04 J	2.3E-02	5.3E-06 U	2.6E-03	1.3E-03	2.1E-04 J	3.7E-02	29.2
	FC-C-2	3.4E-04	2.8E-06 U	1.3E-06 U	1.7E-06 U	1.3E-03	1.0E-06 U	4.5E-03 J	9.3E-07 U	5.7E-04 J	3.0E-04 J	5.4E-06 U	7.0E-03	33.6
Transect D	FC-D-1	3.1E-04	2.5E-06 U	3.8E-05 J	1.1E-06 U	1.9E-03	1.8E-06 U	5.5E-03 J	1.6E-06 U	6.1E-04 J	3.3E-04	7.9E-06 U	8.6E-03	32.2
	FC-D-2	5.0E-04	2.3E-06 U	7.6E-05 J	1.5E-05 U	2.5E-03	4.0E-06 U	7.1E-03 J	3.3E-06 U	9.0E-04 J	5.1E-04 J	6.5E-05 J	1.2E-02	34.4
Transect E	FC-E-1	2.8E-04	3.7E-06 U	3.6E-05 J	5.6E-06 U	1.3E-03	2.3E-06 U	4.1E-03	2.1E-06 U	4.1E-04	2.2E-04	2.6E-05 J	6.4E-03	34.1
	FC-E-2	9.8E-04	2.7E-06 U	3.0E-06 U	7.1E-07 U	4.3E-03	2.4E-06 U	1.2E-02	2.3E-06	1.5E-03	7.5E-04	6.1E-05 J	2.0E-02	35

Avian Conversion													**TEC [4]**	**TEC [5]**
Fiddler Crab (mg/kg)													**wet wt.**	**dry wt.**
Transect A	FC-A-1	1.5E-05	1.3E-07	4.1E-08	8.6E-10	2.9E-07	3.4E-11	1.2E-07	3.2E-12	1.1E-07	5.1E-09	7.7E-11	1.6E-05	5.1E-05
	FC-A-2	4.0E-05	1.4E-07	1.9E-05	1.9E-08	5.9E-07	2.4E-08	1.9E-07	1.0E-11	2.0E-07	9.9E-09	1.3E-09	6.0E-05	1.7E-04
Transect B	FC-B-1	1.5E-05	1.2E-07	4.5E-06	6.2E-09	1.7E-07	6.5E-09	4.8E-08	4.6E-09	6.2E-08	3.4E-09	3.2E-10	2.0E-05	6.4E-05
	FC-B-2	2.2E-05	1.2E-06	7.9E-06	9.3E-10	2.6E-07	1.1E-08	6.9E-08	1.3E-12	9.2E-08	4.2E-09	5.4E-10	3.1E-05	1.0E-04
Transect C	FC-C-1	3.4E-05	1.5E-05	2.1E-05	1.6E-09	8.2E-07	2.6E-08	2.3E-07	2.7E-11	2.6E-07	1.3E-08	2.1E-09	7.1E-05	2.4E-04
	FC-C-2	1.7E-05	1.4E-07	6.5E-08	8.4E-10	1.3E-07	5.1E-11	4.5E-08	4.7E-12	5.7E-08	3.0E-09	2.7E-11	1.7E-05	5.2E-05
Transect D	FC-D-1	1.5E-05	1.3E-07	3.8E-06	5.5E-10	1.9E-07	8.9E-11	5.5E-08	8.2E-12	6.1E-08	3.3E-09	4.0E-11	2.0E-05	6.1E-05
	FC-D-2	2.5E-05	1.2E-07	7.6E-06	7.6E-09	2.5E-07	2.0E-10	7.1E-08	1.7E-11	9.0E-08	5.1E-09	6.5E-10	3.3E-05	9.7E-05
Transect E	FC-E-1	1.4E-05	1.9E-07	3.6E-06	2.8E-09	1.3E-07	1.1E-10	4.1E-08	1.0E-11	4.1E-08	2.2E-09	2.6E-10	1.8E-05	5.3E-05
	FC-E-2	4.9E-05	1.3E-07	1.5E-07	3.6E-10	4.3E-07	1.2E-10	1.2E-07	2.3E-11	1.5E-07	7.5E-09	6.1E-10	5.0E-05	1.4E-04

Mammalian Conversion													**TEC [4]**	**TEC [5]**
Fiddler Crab (mg/kg)													**wet wt.**	**dry wt.**
Transect A	FC-A-1	3.0E-08	3.8E-10	4.1E-08	2.6E-08	8.6E-08	1.0E-11	3.6E-07	9.5E-12	3.3E-08	1.5E-08	2.3E-10	5.9E-07	1.9E-06
	FC-A-2	7.9E-08	4.3E-10	1.9E-05	5.6E-07	1.8E-07	7.3E-09	5.7E-07	3.0E-11	6.1E-08	3.0E-08	3.8E-09	2.1E-05	5.7E-05
Transect B	FC-B-1	3.1E-08	3.6E-10	4.5E-06	1.9E-07	5.1E-08	2.0E-09	1.4E-07	1.4E-08	1.9E-08	1.0E-08	9.6E-10	5.0E-06	1.6E-05
	FC-B-2	4.4E-08	3.7E-09	7.9E-06	2.8E-08	7.7E-08	3.4E-09	2.1E-07	3.8E-12	2.8E-08	1.3E-08	1.6E-09	8.3E-06	2.6E-05
Transect C	FC-C-1	6.7E-08	4.6E-08	2.1E-05	4.7E-08	2.5E-07	7.9E-09	6.9E-07	8.0E-11	7.7E-08	3.9E-08	6.3E-09	2.2E-05	7.7E-05
	FC-C-2	3.4E-08	4.1E-10	6.5E-08	2.5E-08	3.9E-08	1.5E-11	1.4E-07	1.4E-11	1.7E-08	9.1E-09	8.1E-11	3.2E-07	9.7E-07
Transect D	FC-D-1	3.1E-08	3.8E-10	3.8E-06	1.6E-08	5.6E-08	2.7E-11	1.6E-07	2.4E-11	1.8E-08	9.9E-09	1.2E-10	4.1E-06	1.3E-05
	FC-D-2	5.0E-08	3.5E-10	7.6E-06	2.3E-07	7.6E-08	6.0E-11	2.1E-07	5.0E-11	2.7E-08	1.5E-08	1.9E-09	8.2E-06	2.4E-05
Transect E	FC-E-1	2.8E-08	5.6E-10	3.6E-06	8.3E-08	3.9E-08	3.4E-11	1.2E-07	3.1E-11	1.2E-08	6.7E-09	7.7E-10	3.9E-06	1.1E-05
	FC-E-2	9.8E-08	4.0E-10	1.5E-07	1.1E-08	1.3E-07	3.5E-11	3.7E-07	6.8E-11	4.4E-08	2.2E-08	1.8E-09	8.3E-07	2.4E-06

Notes:
(1) Samples are presented from upstream to downstream (i.e., moving from the Site towards the confluence of South Branch Creek with the Arthur Kill).
(2) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.
(3) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.
(4) Non-detect ("U" qualified) results were included in the TEC at one-half the detection limit.
(5) Converted from wet weight using sample-specific moisture content (1-% solids).

Definitions:

TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor
mg/kg = milligram per kilogram
wt. = weight
J = estimated value
U = non-detect value; detection limit presented

ATTACHMENT A

Table A-9
Data Evaluated in the BERA
TCDD TECs for Ortho-PCBs - South Branch Creek Mummichog Tissue
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect [1]	Sample ID [1]	PCB 77	PCB 81	PCB 126	PCB 169	PCB 105	PCB 114	PCB 118	PCB 123	PCB 156	PCB 167	PCB 189	Total Dioxin-Like PCBs [4]	% Solids [5]
	Fish TEF [2]:	0.0001	0.0005	0.0005	0.00005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005		
	Avian TEF [2]:	0.05	0.1	0.1	0.001	0.0001	0.0001	0.00001	0.00001	0.0001	0.00001	0.00001		
	Mammalian TEF [3]:	0.0001	0.0003	0.1	0.03	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003		
Mummichog (mg/kg wet wt)														
Transect A	MC-A	9.6E-05 J	2.2E-06 U	1.8E-06 U	1.1E-06 U	4.5E-03	2.4E-04 J	1.4E-02 J	1.4E-06 U	1.6E-03	8.1E-04	9.5E-05 J	2.2E-02	24.8
	MC-A DUP [6]	1.1E-04	3.1E-06 U	1.4E-06 U	2.7E-06 U	3.8E-03	1.1E-06 UJ	1.2E-02	9.8E-07 U	1.3E-03	6.6E-04	1.1E-05 U	1.8E-02	24.8
Transect B	MC-B	6.6E-05 J	1.3E-05 U	7.3E-05 U	1.9E-05 U	3.0E-03	1.2E-04	9.3E-03	8.3E-04	9.8E-04	5.1E-04	6.5E-05 J	1.5E-02	25.4
Transect C	MC-C	5.1E-05 J	1.1E-06 U	8.1E-07 U	1.4E-06 U	1.4E-03	9.6E-05 J	4.4E-03	6.0E-07 U	4.7E-04	2.4E-04	3.8E-06 U	6.6E-03	25.6
Transect D	MC-D	2.0E-04	2.0E-06 U	3.0E-06 U	1.5E-06 U	4.9E-03	1.8E-04	1.5E-02	2.3E-06 U	1.5E-03	7.7E-04	1.1E-05 U	2.3E-02	25.9
Transect E	MC-E	3.2E-04	1.9E-04	1.5E-04	3.9E-06 U	6.4E-03 J	4.2E-04	1.7E-02 J	1.6E-06 UJ	2.0E-03 J	1.0E-03 J	2.9E-05 UJ	2.7E-02	25.4

Fish Conversion													**TEC [4]**	**TEC [5]**
Mummichog (mg/kg)													**wet wt.**	**dry wt.**
Transect A	MC-A	9.6E-09	5.6E-10	4.6E-10 U	--	2.2E-08	1.2E-09	7.2E-08	3.4E-12	8.2E-09	4.0E-09	4.7E-10	1.2E-07	4.8E-07
	MC-A DUP [6]	1.1E-08	7.7E-10	3.4E-10 U	--	1.9E-08	2.7E-12	6.1E-08	2.5E-12	6.3E-09	3.3E-09	2.8E-11	1.0E-07	4.1E-07
Transect B	MC-B	6.6E-09	3.2E-09	1.8E-08 U	--	1.5E-08	6.2E-10	4.7E-08	4.1E-09	4.9E-09	2.6E-09	3.2E-10	1.0E-07	4.0E-07
Transect C	MC-C	5.1E-09	2.7E-10	2.0E-10 U	--	6.9E-09	4.8E-10	2.2E-08	1.5E-12	2.3E-09	1.2E-09	9.5E-12	3.8E-08	1.5E-07
Transect D	MC-D	2.0E-08	4.9E-10	7.5E-10 U	--	2.5E-08	9.2E-10	7.5E-08	5.9E-12	7.5E-09	3.8E-09	2.8E-11	1.3E-07	5.1E-07
Transect E	MC-E	3.2E-08	9.4E-08	7.6E-08	--	3.2E-08	2.1E-09	8.5E-08	4.0E-12	1.0E-08	5.1E-09	7.2E-11	3.4E-07	1.3E-06

Avian Conversion													**TEC [4]**	**TEC [5]**
Mummichog (mg/kg)													**wet wt.**	**dry wt.**
Transect A	MC-A	4.8E-06	1.1E-07	9.1E-08 U	--	4.5E-07	2.4E-08	1.4E-07	6.8E-12	1.6E-07	8.1E-09	9.5E-10	5.8E-06	2.3E-05
	MC-A DUP [6]	5.5E-06	1.5E-07	6.9E-08 U	--	3.8E-07	5.4E-11	1.2E-07	4.9E-12	1.3E-07	6.6E-09	5.6E-11	6.4E-06	2.6E-05
Transect B	MC-B	3.3E-06	6.3E-07	3.7E-06 U	--	3.0E-07	1.2E-08	9.3E-08	8.3E-09	9.8E-08	5.1E-09	6.5E-10	8.1E-06	3.2E-05
Transect C	MC-C	2.5E-06	5.5E-08	4.1E-08 U	--	1.4E-07	9.6E-09	4.4E-08	3.0E-12	4.7E-08	2.4E-09	1.9E-11	2.9E-06	1.1E-05
Transect D	MC-D	1.0E-05	9.8E-08	1.5E-07 U	--	4.9E-07	1.8E-08	1.5E-07	1.2E-11	1.5E-07	7.7E-09	5.5E-11	1.1E-05	4.3E-05
Transect E	MC-E	1.6E-05	1.9E-05	1.5E-05	--	6.4E-07	4.2E-08	1.7E-07	8.1E-12	2.0E-07	1.0E-08	1.4E-10	5.1E-05	2.0E-04

Mammalian Conversion													**TEC [4]**	**TEC [5]**
Mummichog (mg/kg)													**wet wt.**	**dry wt.**
Transect A	MC-A	9.6E-09	3.4E-10	9.1E-08 U	--	1.3E-07	7.1E-09	4.3E-07	2.0E-11	4.9E-08	2.4E-08	2.8E-09	7.5E-07	3.0E-06
	MC-A DUP [6]	1.1E-08	4.6E-10	6.9E-08 U	--	1.1E-07	1.6E-11	3.7E-07	1.5E-11	3.8E-08	2.0E-08	1.7E-10	6.2E-07	2.5E-06
Transect B	MC-B	6.6E-09	1.9E-09	3.7E-06 U	--	8.9E-08	3.7E-09	2.8E-07	2.5E-08	2.9E-08	1.5E-08	1.9E-09	4.1E-06	1.6E-05
Transect C	MC-C	5.1E-09	1.6E-10	4.1E-08 U	--	4.2E-08	2.9E-09	1.3E-07	9.0E-12	1.4E-08	7.2E-09	5.7E-11	2.4E-07	9.5E-07
Transect D	MC-D	2.0E-08	2.9E-10	1.5E-07 U	--	1.5E-07	5.5E-09	4.5E-07	3.5E-11	4.5E-08	2.3E-08	1.7E-10	8.4E-07	3.3E-06
Transect E	MC-E	3.2E-08	5.7E-08	1.5E-05	--	1.9E-07	1.2E-08	5.1E-07	2.4E-11	6.1E-08	3.1E-08	4.3E-10	1.6E-05	6.3E-05

Notes:
(1) Samples are presented from upstream to downstream (i.e., moving from the Site towards the confluence of South Branch Creek with the Arthur Kill).
(2) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.
(3) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.
(4) If an individual congener was not detected in mummichog tissue, it was excluded from the TEC. Otherwise, non-detect results were included at one-half the detection limit. For duplicate samples, TECs were calculated prior to applying the duplicate handling process.
(5) Converted from wet weight using sample-specific moisture content (1-% solids).
(6) DUP = Duplicate sample; 2,3,7,8-TCDD TEC duplicate samples were processed as follows:
- Relative percent difference ≤ 25%, average concentration
- Relative percent difference > 25%, maximum concentration

Definitions:
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor
mg/kg = milligram per kilogram
wt. = weight
J = estimated value
U = non-detect value; detection limit presented

ATTACHMENT A

Table A-10
Data Evaluated in the BERA
TCDD TECs for Dioxin Congeners - South Branch Creek Sediment
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect [1]	Sample ID [1]	2,3,7,8-TCDD	1,2,3,7,8-PECDD	1,2,3,4,7,8-HXCDD	1,2,3,6,7,8-HXCDD	1,2,3,7,8,9-HXCDD	1,2,3,4,6,7,8-HPCDD	OCDD	Total Dioxins [4]
	Benthic TEF [2]:	1	1	0.5	0.01	0.01	0.001	0.0001	
	Avian TEF [2]:	1	1	0.05	0.01	0.1	0.001	0.0001	
	Mammalian TEF [3]:	1	1	0.1	0.1	0.1	0.01	0.0003	
Sediment (mg/kg)									
Transect A	LM-A-3	3.68E-06 J	1.37E-06 J	1.05E-06 J	3.61E-06 J	2.38E-06 J	5.15E-05 J	6.38E-04 J	7.02E-04
	SED-A-1	4.42E-06 J	1.65E-06 J	1.45E-06 J	5.17E-06 J	3.38E-06 J	7.62E-05 J	9.11E-04 J	1.00E-03
	SED-A-3	1.74E-06 J	1.29E-06 J	1.17E-06 J	3.53E-06 J	2.29E-06 J	7.84E-05 J	9.42E-04 J	1.03E-03
Transect B	BSL-1	3.01E-07	4.19E-07	3.15E-07 U	1.17E-06	6.16E-07	1.04E-05	3.84E-04	3.97E-04
	BSL-12	9.12E-07	8.10E-07	9.35E-07	3.04E-06	1.68E-06	7.59E-05	2.70E-03	2.78E-03
	BSL-6	2.85E-06	1.97E-06	1.73E-06	5.22E-06	2.87E-06	8.06E-05	1.55E-03	1.65E-03
	EC-3	5.50E-07	6.97E-07	8.09E-07	2.46E-06	5.58E-07	4.88E-05	1.54E-03	1.59E-03
	LM-B-2	2.14E-06	1.20E-06 J	1.07E-06 J	3.19E-06 J	2.65E-06 J	3.90E-05	3.73E-04	4.22E-04
	LM-B-3	7.90E-07 J	1.04E-06 J	1.06E-06 J	2.20E-06 J	1.73E-06 J	2.35E-05	8.82E-04	9.12E-04
Transect C	EC-7	4.36E-07	6.05E-07	7.46E-07	1.82E-06	1.47E-06	2.81E-05	1.31E-03	1.34E-03
	LM-C-2	1.35E-06 J	6.15E-07 J	6.59E-07 J	2.76E-06 J	1.43E-06 J	3.07E-05	2.53E-04	2.91E-04
	LM-C-2 DUP [5]	1.03E-06 J	4.27E-07 J	4.29E-07 J	2.00E-06 J	9.95E-07 J	2.35E-05	1.90E-04	2.18E-04
	SED-C-3	9.33E-06 J	4.30E-06 J	4.68E-06 J	9.67E-06 J	8.34E-06 J	1.52E-04 J	1.67E-03 J	1.86E-03
Transect D	LM-D-2	6.12E-06 J	2.41E-06 J	2.95E-06 J	5.31E-06 J	3.49E-06 J	5.83E-05 J	5.62E-04 J	6.41E-04
	LM-D-3	1.27E-05 J	3.66E-06 J	4.87E-06 J	1.47E-05 J	9.70E-06 J	2.95E-04 J	2.87E-03 J	3.21E-03
	SC-3	8.99E-07	7.57E-07	8.19E-07	2.03E-06	2.64E-06	3.71E-05	1.21E-03	1.25E-03
	SED-D-3	1.92E-05 J	6.14E-06 J	9.98E-06 J	2.54E-05 J	1.73E-05 J	4.95E-04 J	5.26E-03 J	5.83E-03
Transect E	LM-E-3	6.50E-05 J	9.56E-06 J	1.82E-05 J	6.22E-05 J	3.59E-05 J	6.10E-04 J	8.07E-03 J	8.87E-03
	SED-E-1	3.65E-06	1.02E-06 J	7.99E-07 J	3.28E-06 J	2.11E-06 J	4.72E-05	5.03E-04	5.61E-04

Benthic Conversion									TEC [4]
Sediment (mg/kg)									
Transect A	LM-A-3	3.7E-06	1.4E-06	5.3E-07	3.6E-08	2.4E-08	5.2E-08	6.4E-08	5.8E-06
	SED-A-1	4.4E-06	1.7E-06	7.3E-07	5.2E-08	3.4E-08	7.6E-08	9.1E-08	7.0E-06
	SED-A-3	1.7E-06	1.3E-06	5.9E-07	3.5E-08	2.3E-08	7.8E-08	9.4E-08	3.8E-06
Transect B	BSL-1	3.0E-07	4.2E-07	7.9E-08	1.2E-08	6.2E-09	1.0E-08	3.8E-08	8.7E-07
	BSL-12	9.1E-07	8.1E-07	4.7E-07	3.0E-08	1.7E-08	7.6E-08	2.7E-07	2.6E-06
	BSL-6	2.9E-06	2.0E-06	8.7E-07	5.2E-08	2.9E-08	8.1E-08	1.6E-07	6.0E-06
	EC-3	5.5E-07	7.0E-07	4.0E-07	2.5E-08	5.6E-09	4.9E-08	1.5E-07	1.9E-06
	LM-B-2	2.1E-06	1.2E-06	5.4E-07	3.2E-08	2.7E-08	3.9E-08	3.7E-08	4.0E-06
	LM-B-3	7.9E-07	1.0E-06	5.3E-07	2.2E-08	1.7E-08	2.4E-08	8.8E-08	2.5E-06
Transect C	EC-7	4.4E-07	6.1E-07	3.7E-07	1.8E-08	1.5E-08	2.8E-08	1.3E-07	1.6E-06
	LM-C-2	1.4E-06	6.2E-07	3.3E-07	2.8E-08	1.4E-08	3.1E-08	2.5E-08	2.4E-06
	LM-C-2 DUP [5]	1.0E-06	4.3E-07	2.1E-07	2.0E-08	1.0E-08	2.4E-08	1.9E-08	1.7E-06
	SED-C-3	9.3E-06	4.3E-06	2.3E-06	9.7E-08	8.3E-08	1.5E-07	1.7E-07	1.6E-05
Transect D	LM-D-2	6.1E-06	2.4E-06	1.5E-06	5.3E-08	3.5E-08	5.8E-08	5.6E-08	1.0E-05
	LM-D-3	1.3E-05	3.7E-06	2.4E-06	1.5E-07	9.7E-08	3.0E-07	2.9E-07	2.0E-05
	SC-3	9.0E-07	7.6E-07	4.1E-07	2.0E-08	2.6E-08	3.7E-08	1.2E-07	2.3E-06
	SED-D-3	1.9E-05	6.1E-06	5.0E-06	2.5E-07	1.7E-07	5.0E-07	5.3E-07	3.2E-05
Transect E	LM-E-3	6.5E-05	9.6E-06	9.1E-06	6.2E-07	3.6E-07	6.1E-07	8.1E-07	8.6E-05
	SED-E-1	3.7E-06	1.0E-06	4.0E-07	3.3E-08	2.1E-08	4.7E-08	5.0E-08	5.2E-06

ATTACHMENT A

Table A-10
Data Evaluated in the BERA
TCDD TECs for Dioxin Congeners - South Branch Creek Sediment
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Avian Conversion									**TEC [4]**
Sediment (mg/kg)									
Transect A	LM-A-3	3.7E-06	1.4E-06	5.3E-08	3.6E-08	2.4E-07	5.2E-08	6.4E-08	5.5E-06
	SED-A-1	4.4E-06	1.7E-06	7.3E-08	5.2E-08	3.4E-07	7.6E-08	9.1E-08	6.7E-06
	SED-A-3	1.7E-06	1.3E-06	5.9E-08	3.5E-08	2.3E-07	7.8E-08	9.4E-08	3.5E-06
Transect B	BSL-1	3.0E-07	4.2E-07	7.9E-09	1.2E-08	6.2E-08	1.0E-08	3.8E-08	8.5E-07
	BSL-12	9.1E-07	8.1E-07	4.7E-08	3.0E-08	1.7E-07	7.6E-08	2.7E-07	2.3E-06
	BSL-6	2.9E-06	2.0E-06	8.7E-08	5.2E-08	2.9E-07	8.1E-08	1.6E-07	5.5E-06
	EC-3	5.5E-07	7.0E-07	4.0E-08	2.5E-08	5.6E-08	4.9E-08	1.5E-07	1.6E-06
	LM-B-2	2.1E-06	1.2E-06	5.4E-08	3.2E-08	2.7E-07	3.9E-08	3.7E-08	3.8E-06
	LM-B-3	7.9E-07	1.0E-06	5.3E-08	2.2E-08	1.7E-07	2.4E-08	8.8E-08	2.2E-06
Transect C	EC-7	4.4E-07	6.1E-07	3.7E-08	1.8E-08	1.5E-07	2.8E-08	1.3E-07	1.4E-06
	LM-C-2	1.4E-06	6.2E-07	3.3E-08	2.8E-08	1.4E-07	3.1E-08	2.5E-08	2.2E-06
	LM-C-2 DUP [5]	1.0E-06	4.3E-07	2.1E-08	2.0E-08	1.0E-07	2.4E-08	1.9E-08	1.6E-06
	SED-C-3	9.3E-06	4.3E-06	2.3E-07	9.7E-08	8.3E-07	1.5E-07	1.7E-07	1.5E-05
Transect D	LM-D-2	6.1E-06	2.4E-06	1.5E-07	5.3E-08	3.5E-07	5.8E-08	5.6E-08	9.2E-06
	LM-D-3	1.3E-05	3.7E-06	2.4E-07	1.5E-07	9.7E-07	3.0E-07	2.9E-07	1.8E-05
	SC-3	9.0E-07	7.6E-07	4.1E-08	2.0E-08	2.6E-07	3.7E-08	1.2E-07	2.1E-06
	SED-D-3	1.9E-05	6.1E-06	5.0E-07	2.5E-07	1.7E-06	5.0E-07	5.3E-07	2.9E-05
Transect E	LM-E-3	6.5E-05	9.6E-06	9.1E-07	6.2E-07	3.6E-06	6.1E-07	8.1E-07	8.1E-05
	SED-E-1	3.7E-06	1.0E-06	4.0E-08	3.3E-08	2.1E-07	4.7E-08	5.0E-08	5.1E-06

Mammalian Conversion									**TEC [4]**
Sediment (mg/kg)									
Transect A	LM-A-3	3.68E-06	1.37E-06	1.05E-07	3.61E-07	2.38E-07	5.15E-07	1.91E-07	6.46E-06
	SED-A-1	4.42E-06	1.65E-06	1.45E-07	5.17E-07	3.38E-07	7.62E-07	2.73E-07	8.11E-06
	SED-A-3	1.74E-06	1.29E-06	1.17E-07	3.53E-07	2.29E-07	7.84E-07	2.83E-07	4.80E-06
Transect B	BSL-1	3.01E-07	4.19E-07	1.58E-08	1.17E-07	6.16E-08	1.04E-07	1.15E-07	1.13E-06
	BSL-12	9.12E-07	8.10E-07	9.35E-08	3.04E-07	1.68E-07	7.59E-07	8.10E-07	3.86E-06
	BSL-6	2.85E-06	1.97E-06	1.73E-07	5.22E-07	2.87E-07	8.06E-07	4.65E-07	7.07E-06
	EC-3	5.50E-07	6.97E-07	8.09E-08	2.46E-07	5.58E-08	4.88E-07	4.62E-07	2.58E-06
	LM-B-2	2.14E-06	1.20E-06	1.07E-07	3.19E-07	2.65E-07	3.90E-07	1.12E-07	4.53E-06
	LM-B-3	7.90E-07	1.04E-06	1.06E-07	2.20E-07	1.73E-07	2.35E-07	2.65E-07	2.83E-06
Transect C	EC-7	4.36E-07	6.05E-07	7.46E-08	1.82E-07	1.47E-07	2.81E-07	3.93E-07	2.12E-06
	LM-C-2	1.35E-06	6.15E-07	6.59E-08	2.76E-07	1.43E-07	3.07E-07	7.59E-08	2.83E-06
	LM-C-2 DUP [5]	1.03E-06	4.27E-07	4.29E-08	2.00E-07	9.95E-08	2.35E-07	5.70E-08	2.09E-06
	SED-C-3	9.33E-06	4.30E-06	4.68E-07	9.67E-07	8.34E-07	1.52E-06	5.01E-07	1.79E-05
Transect D	LM-D-2	6.12E-06	2.41E-06	2.95E-07	5.31E-07	3.49E-07	5.83E-07	1.69E-07	1.05E-05
	LM-D-3	1.27E-05	3.66E-06	4.87E-07	1.47E-06	9.70E-07	2.95E-06	8.61E-07	2.31E-05
	SC-3	8.99E-07	7.57E-07	8.19E-08	2.03E-07	2.64E-07	3.71E-07	3.63E-07	2.94E-06
	SED-D-3	1.92E-05	6.14E-06	9.98E-07	2.54E-06	1.73E-06	4.95E-06	1.58E-06	3.71E-05
Transect E	LM-E-3	6.50E-05	9.56E-06	1.82E-06	6.22E-06	3.59E-06	6.10E-06	2.42E-06	9.47E-05
	SED-E-1	3.65E-06	1.02E-06	7.99E-08	3.28E-07	2.11E-07	4.72E-07	1.51E-07	5.91E-06

Notes:
(1) Samples are generally presented from upstream to downstream (i.e., moving from the Site towards the confluence of South Branch Creek with the Arthur Kill).
(2) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.
(3) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.
(4) For non-detect ("U" qualified) results, one-half the detection limit is used as a surrogate value for calculating dioxin TECs. For duplicate samples, TECs were calculated prior to applying the duplicate handling process. TECs were entered into ProUCL as detected concentrations ("1" qualifier).
(5) DUP = Duplicate sample; 2,3,7,8-TCDD TEC duplicate samples were processed as follows:
- Relative percent difference≤ 25%, average concentration
- Relative percent difference > 25%, maximum concentration

Definitions:
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor
mg/kg = milligram per kilogram
J = estimated value
U = non-detect value; detection limit presented

ATTACHMENT A

Table A-11
Data Evaluated in the BERA
TCDD TECs for Furan Congeners - South Branch Creek Sediment
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect [1]	Sample ID [1]	2,3,7,8-TCDF	1,2,3,7,8-PECDF	2,3,4,7,8-PECDF	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDF	2,3,4,6,7,8-HXCDF	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	OCDF	Total Furans [4]
	Benthic TEF[2]:	0.05	0.05	0.5	0.1	0.1	0.1	0.1	0.01	0.01	0.0001	
	Avian TEF[2]:	1	0.1	1	0.1	0.1	0.1	0.1	0.01	0.01	0.0001	
	Mammalian TEF[3]:	0.1	0.03	0.3	0.1	0.1	0.1	0.1	0.01	0.01	0.0003	
Sediment (mg/kg)												
Transect A	LM-A-3	5.1E-05 J	2.0E-05 J	2.1E-05 J	2.5E-05 J	1.0E-05 J	7.1E-06 J	5.5E-06 J	4.6E-05 J	7.4E-06 J	9.9E-05 J	2.92E-04
	SED-A-1	1.7E-04 J	5.3E-05 J	5.9E-05 J	6.9E-05 J	2.0E-05 J	2.0E-05 J	1.1E-05 J	6.8E-05 J	2.0E-05 J	2.0E-04 J	6.88E-04
	SED-A-3	9.9E-05 J	2.2E-05 J	2.4E-05 J	2.3E-05 J	8.4E-06 J	6.1E-06 J	4.2E-06 J	3.2E-05 J	8.5E-06 J	9.1E-05 J	3.18E-04
Transect B	BSL-1	6.8E-05	1.4E-04	1.7E-04	1.7E-04	4.8E-05	9.0E-05	4.1E-05	5.4E-05	1.5E-04	2.1E-04	1.13E-03
	BSL-12	9.7E-05	2.0E-04	2.3E-04	3.6E-04	8.9E-05	1.3E-04	3.8E-05	1.3E-04	9.1E-05	4.2E-04	1.79E-03
	BSL-6	1.5E-04	2.3E-04	2.9E-04	3.3E-04	9.1E-05	1.4E-04	1.1E-04	1.4E-04	2.7E-04	4.4E-04	2.18E-03
	EC-3	2.8E-06	2.1E-06	3.5E-06	5.3E-06	2.2E-06	1.1E-06	2.3E-06	1.9E-05	2.0E-06	7.7E-05	1.17E-04
	LM-B-2	5.1E-05	5.5E-05	5.6E-05	7.0E-05	1.9E-05	2.8E-05	9.2E-06	4.4E-05	1.5E-05	1.3E-04	4.77E-04
	LM-B-3	2.3E-05	5.1E-05	6.2E-05	9.1E-05	2.6E-05	3.8E-05	1.5E-05	5.3E-05	2.4E-05	1.2E-04	5.04E-04
Transect C	EC-7	2.1E-06	2.0E-06	3.0E-06	4.3E-06	1.7E-06	1.1E-06	2.0E-06	1.4E-05	1.6E-06	6.1E-05	9.29E-05
	LM-C-2	1.1E-04	2.8E-04	3.3E-04	4.1E-04	9.8E-05	1.9E-04	4.3E-05	1.2E-04	8.9E-05	3.6E-04	2.03E-03
	LM-C-2 DUP [5]	8.8E-05	2.0E-04	2.4E-04	2.7E-04	6.6E-05	1.4E-04	3.2E-05	7.7E-05	6.2E-05	2.3E-04	1.39E-03
	SED-C-3	3.4E-04 J	1.8E-04 J	1.7E-04 J	4.2E-04 J	6.2E-05 J	6.7E-05 J	2.9E-05 J	2.3E-04 J	9.5E-05 J	4.7E-04 J	2.06E-03
Transect D	LM-D-2	1.6E-05 J	1.1E-05 J	1.4E-05 J	1.7E-05 J	7.6E-06 J	4.4E-06 J	7.4E-06 J	4.7E-05 J	5.5E-06 J	6.6E-05 J	1.95E-04
	LM-D-3	8.3E-05 J	5.5E-05 J	6.6E-05 J	8.9E-05 J	2.6E-05 J	2.8E-05 J	2.0E-05 J	1.8E-04 J	2.5E-05 J	3.8E-04 J	9.46E-04
	SC-3	2.8E-06	2.2E-06	3.3E-06	5.0E-06 J	2.3E-06	1.3E-06 J	2.6E-06	4.3E-05 J	3.4E-06 J	5.5E-04	6.12E-04
	SED-D-3	1.8E-04 J	1.0E-04 J	1.1E-04 J	1.6E-04 J	4.7E-05 J	4.6E-05 J	3.2E-05 J	2.5E-04 J	5.9E-05 J	6.5E-04 J	1.64E-03
Transect E	LM-E-3	1.1E-04 J	9.4E-05 J	1.2E-04 J	1.8E-04 J	6.8E-05 J	5.6E-05 J	6.4E-05 J	5.0E-04 J	5.0E-05 J	9.1E-04 J	2.15E-03
	SED-E-1	2.0E-05	1.3E-05 J	1.4E-05 J	1.9E-05	6.0E-06 J	4.7E-06 J	4.3E-06 J	3.0E-05	4.0E-06 J	5.9E-05	1.73E-04

Benthic Conversion												TEC [4]
Sediment (mg/kg)												
Transect A	LM-A-3	2.6E-06	9.9E-07	1.1E-05	2.5E-06	1.0E-06	7.1E-07	5.5E-07	4.6E-07	7.4E-08	9.9E-09	1.95E-05
	SED-A-1	8.7E-06	2.6E-06	2.9E-05	6.9E-06	2.0E-06	2.0E-06	1.1E-06	6.8E-07	2.0E-07	2.0E-08	5.35E-05
	SED-A-3	5.0E-06	1.1E-06	1.2E-05	2.3E-06	8.4E-07	6.1E-07	4.2E-07	3.2E-07	8.5E-08	9.1E-09	2.24E-05
Transect B	BSL-1	3.4E-06	6.8E-06	8.4E-05	1.7E-05	4.8E-06	9.0E-06	4.1E-06	5.4E-07	1.5E-06	2.1E-08	1.31E-04
	BSL-12	4.9E-06	1.0E-05	1.1E-04	3.6E-05	8.9E-06	1.3E-05	3.8E-06	1.3E-06	9.1E-07	4.2E-08	1.93E-04
	BSL-6	7.6E-06	1.1E-05	1.4E-04	3.3E-05	9.1E-06	1.4E-05	1.1E-05	1.4E-06	2.7E-06	4.4E-08	2.34E-04
	EC-3	1.4E-07	1.1E-07	1.7E-06	5.3E-07	2.2E-07	1.1E-07	2.3E-07	1.9E-07	2.0E-08	7.7E-09	3.29E-06
	LM-B-2	2.5E-06	2.8E-06	2.8E-05	7.0E-06	1.9E-06	2.8E-06	9.2E-07	4.4E-07	1.5E-07	1.3E-08	4.67E-05
	LM-B-3	1.1E-06	2.6E-06	3.1E-05	9.1E-06	2.6E-06	3.8E-06	1.5E-06	5.3E-07	2.4E-07	1.2E-08	5.23E-05
Transect C	EC-7	1.1E-07	9.9E-08	1.5E-06	4.3E-07	1.7E-07	1.1E-07	2.0E-07	1.4E-07	1.6E-08	6.1E-09	2.77E-06
	LM-C-2	5.6E-06	1.4E-05	1.7E-04	4.1E-05	9.8E-06	1.9E-05	4.3E-06	1.2E-06	8.9E-07	3.6E-08	2.62E-04
	LM-C-2 DUP [5]	4.4E-06	1.0E-05	1.2E-04	2.7E-05	6.6E-06	1.4E-05	3.2E-06	7.7E-07	6.2E-07	2.3E-08	1.86E-04
	SED-C-3	1.7E-05	9.1E-06	8.3E-05	4.2E-05	6.2E-06	6.7E-06	2.9E-06	2.3E-06	9.5E-07	4.7E-08	1.70E-04
Transect D	LM-D-2	8.1E-07	5.5E-07	6.9E-06	1.7E-06	7.6E-07	4.4E-07	7.4E-07	4.7E-07	5.5E-08	6.6E-09	1.24E-05
	LM-D-3	4.1E-06	2.7E-06	3.3E-05	8.9E-06	2.6E-06	2.8E-06	2.0E-06	1.8E-06	2.5E-07	3.8E-08	5.80E-05
	SC-3	1.4E-07	1.1E-07	1.6E-06	5.0E-07	2.3E-07	1.3E-07	2.6E-07	4.3E-07	3.4E-08	5.5E-08	3.52E-06
	SED-D-3	8.9E-06	5.1E-06	5.7E-05	1.6E-05	4.7E-06	4.6E-06	3.2E-06	2.5E-06	5.9E-07	6.5E-08	1.03E-04
Transect E	LM-E-3	5.7E-06	4.7E-06	6.1E-05	1.8E-05	6.8E-06	5.6E-06	6.4E-06	5.0E-06	5.0E-07	9.1E-08	1.14E-04
	SED-E-1	1.0E-06	6.3E-07	6.8E-06	1.9E-06	6.0E-07	4.7E-07	4.3E-07	3.0E-07	4.0E-08	5.9E-09	1.21E-05

ATTACHMENT A

Table A-11
Data Evaluated in the BERA
TCDD TECs for Furan Congeners - South Branch Creek Sediment
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Avian Conversion												**TEC [4]**
Sediment (mg/kg)												
Transect A	LM-A-3	5.1E-05	2.0E-06	2.1E-05	2.5E-06	1.0E-06	7.1E-07	5.5E-07	4.6E-07	7.4E-08	9.9E-09	7.97E-05
	SED-A-1	1.7E-04	5.3E-06	5.9E-05	6.9E-06	2.0E-06	2.0E-06	1.1E-06	6.8E-07	2.0E-07	2.0E-08	2.50E-04
	SED-A-3	9.9E-05	2.2E-06	2.4E-05	2.3E-06	8.4E-07	6.1E-07	4.2E-07	3.2E-07	8.5E-08	9.1E-09	1.29E-04
Transect B	BSL-1	6.8E-05	1.4E-05	1.7E-04	1.7E-05	4.8E-06	9.0E-06	4.1E-06	5.4E-07	1.5E-06	2.1E-08	2.86E-04
	BSL-12	9.7E-05	2.0E-05	2.3E-04	3.6E-05	8.9E-06	1.3E-05	3.8E-06	1.3E-06	9.1E-07	4.2E-08	4.09E-04
	BSL-6	1.5E-04	2.3E-05	2.9E-04	3.3E-05	9.1E-06	1.4E-05	1.1E-05	1.4E-06	2.7E-06	4.4E-08	5.33E-04
	EC-3	2.8E-06	2.1E-07	3.5E-06	5.3E-07	2.2E-07	1.1E-07	2.3E-07	1.9E-07	2.0E-08	7.7E-09	7.75E-06
	LM-B-2	5.1E-05	5.5E-06	5.6E-05	7.0E-06	1.9E-06	2.8E-06	9.2E-07	4.4E-07	1.5E-07	1.3E-08	1.26E-04
	LM-B-3	2.3E-05	5.1E-06	6.2E-05	9.1E-06	2.6E-06	3.8E-06	1.5E-06	5.3E-07	2.4E-07	1.2E-08	1.07E-04
Transect C	EC-7	2.1E-06	2.0E-07	3.0E-06	4.3E-07	1.7E-07	1.1E-07	2.0E-07	1.4E-07	1.6E-08	6.1E-09	6.36E-06
	LM-C-2	1.1E-04	2.8E-05	3.3E-04	4.1E-05	9.8E-06	1.9E-05	4.3E-06	1.2E-06	8.9E-07	3.6E-08	5.48E-04
	LM-C-2 DUP [5]	8.8E-05	2.0E-05	2.4E-04	2.7E-05	6.6E-06	1.4E-05	3.2E-06	7.7E-07	6.2E-07	2.3E-08	4.00E-04
	SED-C-3	3.4E-04	1.8E-05	1.7E-04	4.2E-05	6.2E-06	6.7E-06	2.9E-06	2.3E-06	9.5E-07	4.7E-08	5.87E-04
Transect D	LM-D-2	1.6E-05	1.1E-06	1.4E-05	1.7E-06	7.6E-07	4.4E-07	7.4E-07	4.7E-07	5.5E-08	6.6E-09	3.51E-05
	LM-D-3	8.3E-05	5.5E-06	6.6E-05	8.9E-06	2.6E-06	2.8E-06	2.0E-06	1.8E-06	2.5E-07	3.8E-08	1.72E-04
	SC-3	2.8E-06	2.2E-07	3.3E-06	5.0E-07	2.3E-07	1.3E-07	2.6E-07	4.3E-07	3.4E-08	5.5E-08	7.89E-06
	SED-D-3	1.8E-04	1.0E-05	1.1E-04	1.6E-05	4.7E-06	4.6E-06	3.2E-06	2.5E-06	5.9E-07	6.5E-08	3.34E-04
Transect E	LM-E-3	1.1E-04	9.4E-06	1.2E-04	1.8E-05	6.8E-06	5.6E-06	6.4E-06	5.0E-06	5.0E-07	9.1E-08	2.87E-04
	SED-E-1	2.0E-05	1.3E-06	1.4E-05	1.9E-06	6.0E-07	4.7E-07	4.3E-07	3.0E-07	4.0E-08	5.9E-09	3.85E-05

Mammalian Conversion												**TEC [4]**
Sediment (mg/kg)												
Transect A	LM-A-3	5.1E-06	5.9E-07	6.4E-06	2.5E-06	1.0E-06	7.1E-07	5.5E-07	4.6E-07	7.4E-08	3.0E-08	1.74E-05
	SED-A-1	1.7E-05	1.6E-06	1.8E-05	6.9E-06	2.0E-06	2.0E-06	1.1E-06	6.8E-07	2.0E-07	5.9E-08	4.94E-05
	SED-A-3	9.9E-06	6.7E-07	7.1E-06	2.3E-06	8.4E-07	6.1E-07	4.2E-07	3.2E-07	8.5E-08	2.7E-08	2.23E-05
Transect B	BSL-1	6.8E-06	4.1E-06	5.0E-05	1.7E-05	4.8E-06	9.0E-06	4.1E-06	5.4E-07	1.5E-06	6.2E-08	9.81E-05
	BSL-12	9.7E-06	6.1E-06	6.8E-05	3.6E-05	8.9E-06	1.3E-05	3.8E-06	1.3E-06	9.1E-07	1.3E-07	1.48E-04
	BSL-6	1.5E-05	6.8E-06	8.6E-05	3.3E-05	9.1E-06	1.4E-05	1.1E-05	1.4E-06	2.7E-06	1.3E-07	1.80E-04
	EC-3	2.8E-07	6.4E-08	1.0E-06	5.3E-07	2.2E-07	1.1E-07	2.3E-07	1.9E-07	2.0E-08	2.3E-08	2.70E-06
	LM-B-2	5.1E-06	1.7E-06	1.7E-05	7.0E-06	1.9E-06	2.8E-06	9.2E-07	4.4E-07	1.5E-07	3.9E-08	3.69E-05
	LM-B-3	2.3E-06	1.5E-06	1.9E-05	9.1E-06	2.6E-06	3.8E-06	1.5E-06	5.3E-07	2.4E-07	3.7E-08	4.01E-05
Transect C	EC-7	2.1E-07	5.9E-08	8.9E-07	4.3E-07	1.7E-07	1.1E-07	2.0E-07	1.4E-07	1.6E-08	1.8E-08	2.25E-06
	LM-C-2	1.1E-05	8.3E-06	1.0E-04	4.1E-05	9.8E-06	1.9E-05	4.3E-06	1.2E-06	8.9E-07	1.1E-07	1.95E-04
	LM-C-2 DUP [5]	8.8E-06	6.0E-06	7.2E-05	2.7E-05	6.6E-06	1.4E-05	3.2E-06	7.7E-07	6.2E-07	6.8E-08	1.38E-04
	SED-C-3	3.4E-05	5.5E-06	5.0E-05	4.2E-05	6.2E-06	6.7E-06	2.9E-06	2.3E-06	9.5E-07	1.4E-07	1.51E-04
Transect D	LM-D-2	1.6E-06	3.3E-07	4.1E-06	1.7E-06	7.6E-07	4.4E-07	7.4E-07	4.7E-07	5.5E-08	2.0E-08	1.02E-05
	LM-D-3	8.3E-06	1.6E-06	2.0E-05	8.9E-06	2.6E-06	2.8E-06	2.0E-06	1.8E-06	2.5E-07	1.1E-07	4.80E-05
	SC-3	2.8E-07	6.6E-08	9.8E-07	5.0E-07	2.3E-07	1.3E-07	2.6E-07	4.3E-07	3.4E-08	1.6E-07	3.07E-06
	SED-D-3	1.8E-05	3.1E-06	3.4E-05	1.6E-05	4.7E-06	4.6E-06	3.2E-06	2.5E-06	5.9E-07	2.0E-07	8.71E-05
Transect E	LM-E-3	1.1E-05	2.8E-06	3.7E-05	1.8E-05	6.8E-06	5.6E-06	6.4E-06	5.0E-06	5.0E-07	2.7E-07	9.36E-05
	SED-E-1	2.0E-06	3.8E-07	4.1E-06	1.9E-06	6.0E-07	4.7E-07	4.3E-07	3.0E-07	4.0E-08	1.8E-08	1.02E-05

Notes:
(1) Samples are generally presented from upstream to downstream (i.e., moving from the Site towards the confluence of South Branch Creek with the Arthur Kill).
(2) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.
(3) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.
(4) For non-detect ("U" qualified) results, one-half the detection limit is used as a surrogate value for calculating furan TECs. For duplicate samples, TECs were calculated prior to applying the duplicate handling process. TECs were entered into ProUCL as detected concentrations ("1" qualifier).
(5) DUP = Duplicate sample; 2,3,7,8-TCDD TEC duplicate samples were processed as follows:
- Relative percent difference≤ 25%, average concentration
- Relative percent difference > 25%, maximum concentration

Definitions:
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor
mg/kg = milligram per kilogram
J = estimated value
U = non-detect value; detection limit presented

APPENDIX A

Table A-12
Data Evaluated in the BERA
TCDD TECs for Dioxin Congeners - South Branch Creek Surface Water
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect	Sample ID	Units	1,2,3,4,6,7,8-HPCDD	1,2,3,4,7,8-HXCDD	1,2,3,6,7,8-HXCDD	1,2,3,7,8,9-HXCDD	1,2,3,7,8-PECDD	2,3,7,8-TCDD	OCDD	Total Dioxins (3)
		Avian TEF (1):	0.001	0.05	0.01	0.1	1.0	1.0	0.0001	
		Mammalian TEF (2):	0.01	0.1	0.1	0.1	1.0	1.0	0.0003	
Transect C	SW-C	µg/L	4.2E-06	2.5E-06 U	2.5E-06 U	2.5E-06 U	2.5E-06 U	1.4E-06 U	3.5E-05	4.5E-05

Avian Conversion										TEC (3)
Transect C	SW-C	µg/L	4.2E-09	6.3E-08	1.3E-08	1.3E-07	1.3E-06	7.1E-07	3.5E-09	2.2E-06

Mammalian Conversion										TEC (3)
Transect C	SW-C	µg/L	4.2E-08	1.3E-07	1.3E-07	1.3E-07	1.3E-06	7.1E-07	1.1E-08	2.4E-06

Notes:
(1) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.
(2) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.
(3) For non-detect ("U" qualified) results, one-half the detection limit is used as a surrogate value for calculating dioxin TECs.

Definitions:
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor
µg/L = microgram per liter
J = estimated value
U = non-detect value; detection limit presented

APPENDIX A

Table A-13
Data Evaluated in the BERA
TCDD TECs for Furan Congeners - South Branch Creek Surface Water
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Transect	Sample ID	Units	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDF	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDF	OCDF	Total Furans (3)
		Avian TEF (1):	0.01	0.01	0.10	0.10	0.10	0.10	0.10	1.0	1.0	0.0001	
		Mammalian TEF (2):	0.01	0.01	0.10	0.10	0.10	0.03	0.10	0.30	0.10	0.0003	
Transect C	SW-C	µg/L	3.0E-06	2.5E-06 U	2.6E-06	1.2E-06 J	1.1E-06	2.1E-06	6.8E-07	2.4E-06	2.0E-06 J	5.0E-06	1.6E-05

Avian Conversion													TEC (3)
Transect C	SW-C	µg/L	3.0E-08	1.3E-08	2.6E-07	1.2E-07	1.1E-07	2.1E-07	6.8E-08	2.4E-06	2.0E-06	5.0E-10	5.2E-06

Mammalian Conversion													TEC (3)
Transect C	SW-C	µg/L	3.0E-08	1.3E-08	2.6E-07	1.2E-07	1.1E-07	6.2E-08	6.8E-08	7.1E-07	2.0E-07	1.5E-09	1.6E-06

Notes:
(1) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.
(2) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.
(3) For non-detect ("U" qualified) results, one-half the detection limit is used as a surrogate value for calculating dioxin TECs.

Definitions:
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor
µg/L = microgram per liter
J = estimated value
U = non-detect value; detection limit presented

FINAL
BASELINE ECOLOGICAL RISK ASSESSMENT
ATTACHMENT B

Old Place Creek Data

Table B-1 Old Place Creek Data, Sediment
Table B-2 Old Place Creek Data, TCDD TECs for Dioxin Congeners - Sediment
Table B-3 Old Place Creek Data, TCDD TECs for Furan Congeners - Sediment
Table B-4 Old Place Creek Data, Fiddler Crab Tissue
Table B-5 Old Place Creek Data, TCDD TECs for Orth-PCBs - Fiddler Crab Tissue
Table B-6 Old Place Creek Data, Mummichog Tissue
Table B-7 Old Place Creek Data, TCDD TECs for Orth-PCBs - Mummichog Tissue
Table B-8 Old Place Creek Data, Surface Water
Table B-9 Old Place Creek Data, TCDD TECs for Dioxin Congeners - Surface Water
Table B-10 Old Place Creek Data, TCDD TECs for Furan Congeners - Surface Water

ATTACHMENT B

Table B-1
Old Place Creek Data
Sediment

Sampling Area	Sample ID	Arsenic	Barium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Methyl Mercury	Vanadium	Zinc	Aroclor 1248 (2)	2,3,7,8-TCDD Benthic Dioxin TEC (3)	2,3,7,8-TCDD Mammalian Dioxin TEC (3)	2,3,7,8-TCDD Avian Dioxin TEC (3)	2,3,7,8-TCDD Benthic Furan TEC (3)	2,3,7,8-TCDD Mammalian Furan TEC (3)	2,3,7,8-TCDD Avian Furan TEC (3)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Old Place Creek (1)	SED-W-1	**28** J	**190** J	**112** J	**257** J	**45500** J	**197** J	**489** J	**3.1** J	**0.0015**	**56.3** J	**284** J	0.037 UJ	**6.3E-06**	**7.0E-06**	**6.2E-06**	**2.6E-06**	**2.3E-06**	**7.6E-06**
	SED-W-1 DUP (4)	**24.8** J	**151** J	**90.3** J	**218** J	**39700** J	**232** J	**373** J	**2.6** J	**0.0101**	**46** J	**252** J	0.039 UJ	**1.9E-05**	**2.1E-05**	**1.8E-05**	**9.0E-06**	**7.5E-06**	**2.2E-05**
	SED-W-2	**37.2** J	**334** J	**248** J	**548** J	**42600** J	**403** J	**384** J	**11.3** J	**0.0006** J	**63** J	**554** J	0.47 UJ	--	--	--	--	--	--
	SED-W-3	**24.1** J	**99.4** J	**66.4** J	**91.8** J	**41800** J	**116** J	**389** J	**1.1** J	0.0002 U	**56.2** J	**226** J	0.028 UJ	**9.6E-07**	**1.2E-06**	**8.8E-07**	**5.6E-07**	**5.8E-07**	**3.3E-06**
	SED-X-1	**22.4** J	**121** J	**82.6** J	**196** J	**32500** J	**141** J	**304** J	**2.2** J	**0.007** J	**38.8** J	**222** J	0.08 UJ	--	--	--	--	--	--
	SED-X-2	**46.6** J	**524** J	**281** J	**628** J	**39700** J	**402** J	**362** J	**14.7** J	0.001 UJ	**65.2** J	**645** J	**0.443** J	--	--	--	--	--	--
	SED-X-3	**46.1** J	**167** J	**110** J	**292** J	**40700** J	**224** J	**368** J	**3.6** J	**0.0054** J	**50.1** J	**325** J	0.09 UJ	--	--	--	--	--	--
	SED-Y-1	**31.9** J	**202** J	**130** J	**318** J	**42300** J	**230** J	**392** J	**3** J	**0.0058** J	**51.2** J	**348** J	0.1 UJ	--	--	--	--	--	--
	SED-Y-2	**33.4** J	**249** J	**152** J	**361** J	**34800** J	**266** J	**325** J	**5** J	**0.0029** J	**43.3** J	**361** J	0.029 UJ	--	--	--	--	--	--
	SED-Z-3	**26.7** J	**137** J	**82.5** J	**199** J	**33800** J	**155** J	**336** J	**2.2** J	**0.0086** J	**40.5** J	**215** J	0.079 UJ	--	--	--	--	--	--
	SED-Z-2	**33** J	**199** J	**142** J	**325** J	**38900** J	**276** J	**335** J	**4.6** J	0.0012 UJ	**45.9** J	**343** J	0.036 UJ	--	--	--	--	--	--
	SED-Z-1	**30.1** J	**184** J	**110** J	**270** J	**39400** J	**208** J	**352** J	**2.9** J	**0.007** J	**46** J	**297** J	0.094 UJ	--	--	--	--	--	--
	SED-Y-3	**33.4** J	**213** J	**126** J	**291** J	**40200** J	**242** J	**375** J	**2.7** J	**0.0079** J	**49.5** J	**300** J	0.1 UJ	**9.8E-06**	**1.1E-05**	**9.5E-06**	**4.5E-06**	**3.7E-06**	**1.1E-05**
	SED-Y-3 DUP (4)	**26.2** J	**121** J	**81.2** J	**167** J	**35300** J	**137** J	**412** J	**2.5** J	**0.007** J	**44.6** J	**205** J	0.083 UJ	**1.5E-05**	**1.7E-05**	**1.5E-05**	**8.5E-06**	**7.5E-06**	**1.9E-05**

Notes:
(1) The reference stream known as Old Place Creek is located in Staten Island, New York, on the eastern side of Arthur Kill.
(2) No other Aroclors were detected in Old Place Creek sediment.
(3) Dioxin and furan toxic equivalency concentration (TEC) calculations are presented in Table B-2 (dioxins) and Table B-3 (furans).
(4) DUP = Duplicate sample.

Definitions:
ft bgs = feet below ground surface
mg/kg = milligram per kilogram
2,3,7,8-TCDD = 2,3,7,8-tetrachlorodibenzo-p-dioxin
TEC = toxic equivalency concentration
Bold = detected concentration
J = estimated value
U = non-detect value; MDL presented
"--" = Data not available

ATTACHMENT B

Table B-2
Old Place Creek Data
TCDD TECs for Dioxin Congeners - Sediment

Sampling Area [1]	Sample ID	2,3,7,8-TCDD	1,2,3,7,8-PECDD	1,2,3,4,7,8-HXCDD	1,2,3,6,7,8-HXCDD	1,2,3,7,8,9-HXCDD	1,2,3,4,6,7,8-HPCDD	OCDD	Total Dioxins [4]
	Benthic TEF [2]:	1	1	0.5	0.01	0.01	0.001	0.0001	
	Avian TEF [2]:	1	1	0.05	0.01	0.1	0.001	0.0001	
	Mammalian TEF [3]:	1	1	0.1	0.1	0.1	0.01	0.0003	
Sediment (mg/kg)									
Old Place Creek	SED-W-1-0-0.5	5.1E-06 J	8.0E-07 J	6.3E-07 J	2.5E-06 J	1.6E-06 J	4.9E-05 J	5.6E-04 J	6.2E-04
	SED-W-1-0-0.5-DUP [5]	1.5E-05 J	2.2E-06 J	2.7E-06 J	8.0E-06 J	5.5E-06 J	1.6E-04 J	2.1E-03 J	2.3E-03
	SED-W-3-0-0.5	4.5E-07 J	3.0E-07 J	2.7E-07 J	4.6E-07 J	4.9E-07 J	1.5E-05 J	5.2E-04 J	5.3E-04
	SED-Y-3-0-0.5	7.9E-06 J	1.1E-06 J	1.1E-06 J	3.9E-06 J	2.5E-06 J	7.1E-05 J	8.5E-04 J	9.4E-04
	SED-Y-3-0-0.5-DUP [5]	1.2E-05 J	1.5E-06 J	1.9E-06 J	5.8E-06 J	3.8E-06 J	1.5E-04 J	1.7E-03 J	1.9E-03

Benthic Conversion									**TEC [4]**
Sediment (mg/kg)									
Old Place Creek	SED-W-1-0-0.5	5.1E-06	8.0E-07	3.1E-07	2.5E-08	1.6E-08	4.9E-08	5.6E-08	6.3E-06
	SED-W-1-0-0.5-DUP [5]	1.5E-05	2.2E-06	1.3E-06	8.0E-08	5.5E-08	1.6E-07	2.1E-07	1.9E-05
	SED-W-3-0-0.5	4.5E-07	3.0E-07	1.3E-07	4.6E-09	4.9E-09	1.5E-08	5.2E-08	9.6E-07
	SED-Y-3-0-0.5	7.9E-06	1.1E-06	5.6E-07	3.9E-08	2.5E-08	7.1E-08	8.5E-08	9.8E-06
	SED-Y-3-0-0.5-DUP [5]	1.2E-05	1.5E-06	9.6E-07	5.8E-08	3.8E-08	1.5E-07	1.7E-07	1.5E-05

Avian Conversion									**TEC [4]**
Sediment (mg/kg)									
Old Place Creek	SED-W-1-0-0.5	5.1E-06	8.0E-07	3.1E-08	2.5E-08	1.6E-07	4.9E-08	5.6E-08	6.2E-06
	SED-W-1-0-0.5-DUP [5]	1.5E-05	2.2E-06	1.3E-07	8.0E-08	5.5E-07	1.6E-07	2.1E-07	1.8E-05
	SED-W-3-0-0.5	4.5E-07	3.0E-07	1.3E-08	4.6E-09	4.9E-08	1.5E-08	5.2E-08	8.8E-07
	SED-Y-3-0-0.5	7.9E-06	1.1E-06	5.6E-08	3.9E-08	2.5E-07	7.1E-08	8.5E-08	9.5E-06
	SED-Y-3-0-0.5-DUP [5]	1.2E-05	1.5E-06	9.6E-08	5.8E-08	3.8E-07	1.5E-07	1.7E-07	1.5E-05

Mammalian Conversion									**TEC [4]**
Sediment (mg/kg)									
Old Place Creek	SED-W-1-0-0.5	5.1E-06	8.0E-07	6.3E-08	2.5E-07	1.6E-07	4.9E-07	1.7E-07	7.0E-06
	SED-W-1-0-0.5-DUP [5]	1.5E-05	2.2E-06	2.7E-07	8.0E-07	5.5E-07	1.6E-06	6.4E-07	2.1E-05
	SED-W-3-0-0.5	4.5E-07	3.0E-07	2.7E-08	4.6E-08	4.9E-08	1.5E-07	1.6E-07	1.2E-06
	SED-Y-3-0-0.5	7.9E-06	1.1E-06	1.1E-07	3.9E-07	2.5E-07	7.1E-07	2.6E-07	1.1E-05
	SED-Y-3-0-0.5-DUP [5]	1.2E-05	1.5E-06	1.9E-07	5.8E-07	3.8E-07	1.5E-06	5.1E-07	1.7E-05

Notes:
(1) The reference stream known as Old Place Creek is located in Staten Island, New York, on the eastern side of Arthur Kill.
(2) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.
(3) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.
(4) For non-detect ("U" qualified) results, one-half the detection limit is used as a surrogate value for calculating dioxin TECs.
(5) DUP = Duplicate sample.

Definitions:
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor
mg/kg = milligram per kilogram
J = estimated value
U = non-detect value; detection limit presented

ATTACHMENT B

Table B-3
Old Place Creek Data
TCDD TECs for Furan Congeners - Sediment

Sampling Area [1]	Sample ID	2,3,7,8-TCDF	1,2,3,7,8-PECDF	2,3,4,7,8-PECDF	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDF	2,3,4,6,7,8-HXCDF	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	OCDF	Total Furans [4]
	Benthic TEF [2]:	0.05	0.05	0.5	0.1	0.1	0.1	0.1	0.01	0.01	0.0001	
	Avian TEF [2]:	1	0.1	1	0.1	0.1	0.1	0.1	0.01	0.01	0.0001	
	Mammalian TEF [3]:	0.1	0.03	0.3	0.1	0.1	0.1	0.1	0.01	0.01	0.0003	
Sediment (mg/kg)												
Old Place Creek	SED-W-1-0-0.5	3.7E-06 J	1.5E-06 J	2.7E-06 J	3.9E-06 J	1.9E-06 J	6.7E-07 J	1.8E-06 J	1.9E-05 J	1.4E-06 J	2.9E-05 J	6.5E-05
	SED-W-1-0-0.5-DUP [5]	8.8E-06 J	5.0E-06 J	9.4E-06 J	1.4E-05 J	6.3E-06 J	2.5E-06 J	6.2E-06 J	7.2E-05 J	5.4E-06 J	1.2E-04 J	2.5E-04
	SED-W-3-0-0.5	2.6E-06 J	2.9E-07 J	5.1E-07 J	4.1E-07 J	3.0E-07 J	8.5E-07 UJ	2.6E-07 J	1.7E-06 J	8.5E-07 UJ	2.7E-06 J	9.7E-06
	SED-Y-3-0-0.5	4.6E-06 J	2.6E-06 J	4.5E-06 J	7.0E-06 J	3.2E-06 J	1.2E-06 J	3.2E-06 J	3.3E-05 J	2.5E-06 J	5.3E-05 J	1.2E-04
	SED-Y-3-0-0.5-DUP [5]	7.1E-06 J	4.1E-06 J	6.7E-06 J	1.6E-05 J	8.5E-06 J	3.2E-06 J	6.8E-06 J	1.0E-04 J	1.9E-05 J	2.8E-04 J	4.5E-04

Benthic Conversion												TEC [4]
Sediment (mg/kg)												
Old Place Creek	SED-W-1-0-0.5	1.9E-07	7.5E-08	1.3E-06	3.9E-07	1.9E-07	6.7E-08	1.8E-07	1.9E-07	1.4E-08	2.9E-09	2.6E-06
	SED-W-1-0-0.5-DUP [5]	4.4E-07	2.5E-07	4.7E-06	1.4E-06	6.3E-07	2.5E-07	6.2E-07	7.2E-07	5.4E-08	1.2E-08	9.0E-06
	SED-W-3-0-0.5	1.3E-07	1.4E-08	2.6E-07	4.1E-08	3.0E-08	4.3E-08	2.6E-08	1.7E-08	4.3E-09	2.7E-10	5.6E-07
	SED-Y-3-0-0.5	2.3E-07	1.3E-07	2.3E-06	7.0E-07	3.2E-07	1.2E-07	3.2E-07	3.3E-07	2.5E-08	5.3E-09	4.5E-06
	SED-Y-3-0-0.5-DUP [5]	3.5E-07	2.0E-07	3.3E-06	1.6E-06	8.5E-07	3.2E-07	6.8E-07	1.0E-06	1.9E-07	2.8E-08	8.5E-06

Avian Conversion												TEC [4]
Sediment (mg/kg)												
Old Place Creek	SED-W-1-0-0.5	3.7E-06	1.5E-07	2.7E-06	3.9E-07	1.9E-07	6.7E-08	1.8E-07	1.9E-07	1.4E-08	2.9E-09	7.6E-06
	SED-W-1-0-0.5-DUP [5]	8.8E-06	5.0E-07	9.4E-06	1.4E-06	6.3E-07	2.5E-07	6.2E-07	7.2E-07	5.4E-08	1.2E-08	2.2E-05
	SED-W-3-0-0.5	2.6E-06	2.9E-08	5.1E-07	4.1E-08	3.0E-08	4.3E-08	2.6E-08	1.7E-08	4.3E-09	2.7E-10	3.3E-06
	SED-Y-3-0-0.5	4.6E-06	2.6E-07	4.5E-06	7.0E-07	3.2E-07	1.2E-07	3.2E-07	3.3E-07	2.5E-08	5.3E-09	1.1E-05
	SED-Y-3-0-0.5-DUP [5]	7.1E-06	4.1E-07	6.7E-06	1.6E-06	8.5E-07	3.2E-07	6.8E-07	1.0E-06	1.9E-07	2.8E-08	1.9E-05

Mammalian Conversion												TEC [4]
Sediment (mg/kg)												
Old Place Creek	SED-W-1-0-0.5	3.7E-07	4.5E-08	8.0E-07	3.9E-07	1.9E-07	6.7E-08	1.8E-07	1.9E-07	1.4E-08	8.6E-09	2.3E-06
	SED-W-1-0-0.5-DUP [5]	8.8E-07	1.5E-07	2.8E-06	1.4E-06	6.3E-07	2.5E-07	6.2E-07	7.2E-07	5.4E-08	3.7E-08	7.5E-06
	SED-W-3-0-0.5	2.6E-07	8.7E-09	1.5E-07	4.1E-08	3.0E-08	8.5E-08	2.6E-08	1.7E-08	8.5E-09	8.2E-10	6.3E-07
	SED-Y-3-0-0.5	4.6E-07	7.9E-08	1.4E-06	7.0E-07	3.2E-07	1.2E-07	3.2E-07	3.3E-07	2.5E-08	1.6E-08	3.7E-06
	SED-Y-3-0-0.5-DUP [5]	7.1E-07	1.2E-07	2.0E-06	1.6E-06	8.5E-07	3.2E-07	6.8E-07	1.0E-06	1.9E-07	8.4E-08	7.5E-06

Notes:
(1) The reference stream known as Old Place Creek is located in Staten Island, New York, on the eastern side of Arthur Kill.
(2) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.
(3) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.
(4) For non-detect ("U" qualified) results, one-half the detection limit is used as a surrogate value for calculating furan TECs.
(5) DUP = Duplicate sample.

Definitions:
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor
mg/kg = milligram per kilogram
J = estimated value
U = non-detect value; detection limit presented

ATTACHMENT B

Table B-4
Old Place Creek Data
Fiddler Crab Tissue

Sampling Area [1]	Sample ID	Date	Arsenic	Barium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Methyl Mercury	Vanadium	Zinc	Orth-PCB Mammalian TEC [2]	Orth-PCB Avian TEC [2]
			mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Old Place Creek	FC-W-1	9/26/2006	**10.8**	**62**	**6.2**	**123**	**2340**	**8.73**	**51.6**	**0.162**	**0.04**	**5.95**	**63**	**6.6E-06**	**2.3E-05**
	FC-W-2	9/26/2006	**7.12**	**52.3**	**8.7**	**120**	**1700**	**5.81**	**54**	**0.115**	**0.07**	**3.98**	**59.9**	**1.4E-05**	**4.6E-05**
	FC-W-2 DUP [3]	9/26/2006	**8.59**	**48.8**	**9.1**	**177**	**2190**	**7**	**56.9**	**0.118**	**0.06**	**5.03**	**79.6**	**1.4E-05**	**3.7E-05**
	FC-X-1	9/26/2006	**12.5**	**61.6**	**17.5**	**158**	**4810**	**11.1**	**56**	**0.156**	**0.06**	**10.6**	**87.2**	**1.8E-05**	**6.6E-05**
	FC-X-2	9/26/2006	**9.21**	**52.8**	**11.5**	**141**	**2500**	**11.8**	**73.5**	**0.182**	**0.04**	**5.6**	**67.2**	**9.6E-06**	**3.5E-05**
	FC-Y-1	9/27/2006	**9.52**	**62.9**	**16.8**	**157**	**1980**	**9.92**	**38.8**	**0.158**	**0.05**	**4.78**	**78.8**	**6.8E-07**	**2.2E-05**
	FC-Y-2	9/27/2006	**9.55**	**49.4**	**24.7**	**142**	**2000**	**11.6**	**45.4**	**0.184**	**0.07**	**4.61**	**72.2**	**1.2E-05**	**3.2E-05**
	FC-Z-1	9/27/2006	**10.9**	**58.6**	**16.4**	**174**	**2150**	**12.7**	**29.7**	**0.192**	**0.07**	**5.77**	**81**	**2.2E-05**	**6.6E-05**
	FC-Z-2	9/27/2006	**8.62**	**50.3**	**15.9**	**155**	**1630**	**10.7**	**27.9**	**0.162**	**0.09**	**3.92**	**75.7**	**1.9E-05**	**7.6E-05**

Notes:
(1) The reference stream known as Old Place Creek is located in Staten Island, New York, on the eastern side of Arthur Kill.
(2) Ortho-PCB (dioxin-like PCB) toxic equivalency concentration (TEC) calculations are presented in Table B-5.
(3) DUP = Duplicate sample.

Definitions:
mg/kg dw = milligram per kilogram dry weight
Bold = detected concentration
J = estimated value
TEC = Toxic equivalency concentration

ATTACHMENT B

Table B-5
Old Place Creek Data
TCDD TECs for Orth-PCBs - Fiddler Crab Tissue

Sampling Area [1]	Sample ID	PCB 77	PCB 81	PCB 126	PCB 169	PCB 105	PCB 114	PCB 118	PCB 123	PCB 156	PCB 167	PCB 189	Total Dioxin-Like PCBs [4]	% Solids [5]
	Avian TEF [2]:	0.05	0.1	0.1	0.001	0.0001	0.0001	0.00001	0.00001	0.0001	0.00001	0.00001		
	Mammalian TEF [3]:	0.0001	0.0003	0.1	0.03	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003		
Fiddler Crab (mg/kg wet wt)														
Old Place Creek	FC-W-1	1.0E-04 J	1.7E-06 U	2.0E-05 J	1.4E-06 U	5.7E-04	1.1E-06 U	1.6E-03	9.6E-07 UJ	2.1E-04 J	1.4E-04	1.8E-05 U	2.7E-03	31.5
	FC-W-2	1.3E-04	2.8E-05 J	3.6E-05 J	1.0E-05 J	7.3E-04	4.1E-05 J	2.1E-03	4.9E-05 J	3.3E-04	2.2E-04	6.0E-05 J	3.8E-03	29.1
	FC-W-2-DUP [6]	1.5E-04	1.6E-06 U	3.6E-05 J	1.6E-05 J	9.6E-04	3.2E-05 J	3.0E-03	3.9E-06 UJ	4.6E-04	2.9E-04	3.1E-06 U	5.0E-03	30.2
	FC-X-1	1.9E-04	3.6E-05 J	4.5E-05 J	8.8E-06 J	1.0E-03	1.5E-06 U	2.7E-03 J	1.4E-06 UJ	4.2E-04 J	2.5E-04	5.3E-05 J	4.7E-03	26.7
	FC-X-2	1.1E-04 J	1.8E-05 J	2.6E-05 J	1.6E-06 U	5.7E-04	3.0E-05 J	1.6E-03	1.1E-06 U	2.2E-04	1.3E-04	1.4E-05 J	2.8E-03	28.3
	FC-Y-1	1.1E-04	1.3E-06 U	7.9E-07 UJ	1.3E-06 U	7.9E-04	6.2E-07 U	2.4E-03	6.0E-07 U	3.8E-04	2.3E-04	1.3E-05 UJ	4.0E-03	27.5
	FC-Y-2	1.2E-04	1.4E-06 U	3.5E-05 J	1.5E-06 U	1.0E-03	2.8E-05 J	2.9E-03 J	4.7E-07 UJ	3.9E-04 J	2.4E-04 J	4.3E-05 J	4.8E-03	29.9
	FC-Z-1	2.5E-04	1.6E-06 U	5.8E-05 J	8.5E-06 J	1.5E-03	1.4E-06 UJ	4.4E-03 J	2.1E-04 J	6.1E-04 J	3.7E-04 J	2.7E-05 J	7.4E-03	28.8
	FC-Z-2	2.3E-04	5.2E-05 J	1.0E-04 U	6.7E-06 U	1.1E-03	8.0E-05 U	3.1E-03	6.4E-05 UJ	4.5E-04 J	2.7E-04 J	5.8E-05 J	5.4E-03	28.8

Avian Conversion													**TEC [4]**	**TEC [5]**
Fiddler Crab (mg/kg)													**wet wt.**	**dry wt.**
Old Place Creek	FC-W-1	5.1E-06	8.6E-08	2.0E-06	7.1E-10	5.7E-08	5.3E-11	1.6E-08	4.8E-12	2.1E-08	1.4E-09	9.0E-11	7.2E-06	2.3E-05
	FC-W-2	6.7E-06	2.8E-06	3.6E-06	1.0E-08	7.3E-08	4.1E-09	2.1E-08	4.9E-10	3.3E-08	2.2E-09	6.0E-10	1.3E-05	4.6E-05
	FC-W-2-DUP [6]	7.5E-06	8.2E-08	3.6E-06	1.6E-08	9.6E-08	3.2E-09	3.0E-08	2.0E-11	4.6E-08	2.9E-09	1.5E-11	1.1E-05	3.7E-05
	FC-X-1	9.5E-06	3.6E-06	4.5E-06	8.8E-09	1.0E-07	7.6E-11	2.7E-08	6.9E-12	4.2E-08	2.5E-09	5.3E-10	1.8E-05	6.6E-05
	FC-X-2	5.3E-06	1.8E-06	2.6E-06	8.0E-10	5.7E-08	3.0E-09	1.6E-08	5.6E-12	2.2E-08	1.3E-09	1.4E-10	9.8E-06	3.5E-05
	FC-Y-1	5.7E-06	6.7E-08	4.0E-08	6.7E-10	7.9E-08	3.1E-11	2.4E-08	3.0E-12	3.8E-08	2.3E-09	6.3E-11	5.9E-06	2.2E-05
	FC-Y-2	5.8E-06	7.0E-08	3.5E-06	7.3E-10	1.0E-07	2.8E-09	2.9E-08	2.4E-12	3.9E-08	2.4E-09	4.3E-10	9.5E-06	3.2E-05
	FC-Z-1	1.3E-05	8.1E-08	5.8E-06	8.5E-09	1.5E-07	7.1E-11	4.4E-08	2.1E-09	6.1E-08	3.7E-09	2.7E-10	1.9E-05	6.6E-05
	FC-Z-2	1.1E-05	5.2E-06	5.2E-06	3.3E-09	1.1E-07	4.0E-09	3.1E-08	3.2E-10	4.5E-08	2.7E-09	5.8E-10	2.2E-05	7.6E-05

Mammalian Conversion													**TEC [4]**	**TEC [5]**
Fiddler Crab (mg/kg)													**wet wt.**	**dry wt.**
Old Place Creek	FC-W-1	1.01E-08	2.57E-10	1.97E-06	2.12E-08	1.71E-08	1.58E-11	4.81E-08	1.44E-11	6.43E-09	4.32E-09	2.71E-10	2.1E-06	6.6E-06
	FC-W-2	1.35E-08	8.532E-09	3.609E-06	2.988E-07	2.179E-08	1.231E-09	6.389E-08	1.471E-09	9.938E-09	6.485E-09	1.787E-09	4.0E-06	1.4E-05
	FC-W-2-DUP [6]	1.492E-08	2.445E-10	3.564E-06	4.8E-07	2.887E-08	9.501E-10	9.041E-08	5.88E-11	1.394E-08	8.839E-09	4.605E-11	4.2E-06	1.4E-05
	FC-X-1	1.901E-08	1.072E-08	4.451E-06	2.649E-07	3.081E-08	2.28E-11	8.027E-08	2.055E-11	1.263E-08	7.469E-09	1.598E-09	4.9E-06	1.8E-05
	FC-X-2	1.055E-08	5.361E-09	2.612E-06	2.385E-08	1.708E-08	9.096E-10	4.945E-08	1.68E-11	6.459E-09	3.848E-09	4.182E-10	2.7E-06	9.6E-06
	FC-Y-1	1.14E-08	2.01E-10	3.95E-08	2.01E-08	2.376E-08	9.3E-12	7.34E-08	9E-12	1.131E-08	6.943E-09	1.893E-10	1.9E-07	6.8E-07
	FC-Y-2	1.168E-08	2.1E-10	3.454E-06	2.175E-08	3.049E-08	8.319E-10	8.699E-08	7.05E-12	1.179E-08	7.293E-09	1.281E-09	3.6E-06	1.2E-05
	FC-Z-1	2.548E-08	2.43E-10	5.825E-06	2.556E-07	4.405E-08	2.13E-11	1.328E-07	6.359E-09	1.833E-08	1.11E-08	8.121E-10	6.3E-06	2.2E-05
	FC-Z-2	2.261E-08	1.564E-08	5.181E-06	1.001E-07	3.343E-08	1.196E-09	9.37E-08	9.641E-10	1.339E-08	8.225E-09	1.737E-09	5.5E-06	1.9E-05

Notes:
(1) The reference stream known as Old Place Creek is located in Staten Island, New York, on the eastern side of Arthur Kill.
(2) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.
(3) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.
(4) For non-detect ("U" qualified) results, one-half the detection limit is used as a surrogate value for calculating total dioxin-like PCBs and TECs.
(5) Converted from wet weight using sample-specific moisture content (1-% solids).
(6) DUP = Duplicate sample.

Definitions:
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor
mg/kg = milligram per kilogram
J = estimated value
U = non-detect value; detection limit presented

ATTACHMENT B

Table B-6
Old Place Creek Data
Mummichog Tissue

Sampling Area (1)	Sample ID (1)	Date	Arsenic	Barium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Methyl Mercury	Vanadium	Zinc	Orth-PCB Fish TEC (2)	Orth-PCB Mammalian TEC (2)	Orth-PCB Avian TEC (2)
			mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Old Place Creek	MC-W	9/26/2006	**2.25**	**6.26**	**0.9**	**25.1**	**238**	**1.79**	**22.1**	**0.098**	**0.1**	**1.39**	**142**	**5.0E-07**	**3.3E-05**	**6.1E-05**
	MC-X	9/26/2006	**2.63**	**6.88**	**1.4**	**29.1**	**352**	**2.71**	**25.5**	**0.152**	**0.13**	**1.66**	**159**	**5.4E-07**	**3.3E-05**	**6.5E-05**
	MC-Y	9/27/2006	**2.25**	**5.4**	**2.4**	**24.2**	**217**	**2.05**	**23**	**0.099**	**0.08**	**1.46**	**150**	**3.1E-07**	**2.0E-06**	**2.6E-06**
	MC-Z	9/27/2006	**2.35**	**7.2**	**1.3**	**15.1**	**228**	**2.38**	**20.1**	**0.119**	**0.13**	**1.63**	**139**	**7.1E-07**	**6.4E-05**	**6.6E-05**

Notes:
(1) The reference stream known as Old Place Creek is located in Staten Island, New York, on the eastern side of Arthur Kill.
(2) Ortho-PCB (dioxin-like PCB) toxic equivalency concentration (TEC) calculations are presented in Table B-7.

Definitions:
mg/kg dw = milligram per kilogram dry weight
Bold = detected concentration
J = estimated value

ATTACHMENT B

Table B-7
Old Place Creek Data
TCDD TECs for Orth-PCBs - Mummichog Tissue

Sampling Area (1)	Sample ID	PCB 77	PCB 81	PCB 126	PCB 169	PCB 105	PCB 114	PCB 118	PCB 123	PCB 156	PCB 167	PCB 189	Total Dioxin-Like PCBs (4)	% Solids (5)
	Fish TEF (2):	0.0001	0.0005	0.0005	0.00005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005		
	Avian TEF (2):	0.05	0.1	0.1	0.001	0.0001	0.0001	0.00001	0.00001	0.0001	0.00001	0.00001		
	Mammalian TEF (3):	0.0001	0.0003	0.1	0.03	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003		
Mummichog (mg/kg)														
Old Place Creek	MC-W	1.5E-04	3.2E-06 U	8.5E-05 J	2.1E-06 U	3.6E-03	1.4E-04	9.5E-03 J	2.4E-06 UJ	1.3E-03	6.8E-04	1.2E-04	1.6E-02	26.9
	MC-X	1.6E-04	3.3E-06 U	8.1E-05 J	3.8E-06 U	3.9E-03	2.3E-04 J	1.0E-02 J	1.5E-06 UJ	1.4E-03 J	8.1E-04 J	3.6E-06 UJ	1.7E-02	25.7
	MC-Y	2.0E-06 U	2.4E-06 U	7.9E-07 U	3.6E-06 U	3.5E-03	6.3E-07 U	1.1E-02	5.6E-07 UJ	1.3E-03 J	7.3E-04 J	4.3E-05 UJ	1.7E-02	26.5
	MC-Z	3.3E-06 U	4.0E-06 U	1.5E-04	4.4E-06 U	4.9E-03	3.0E-04	1.3E-02 J	3.6E-06 U	1.4E-03 J	7.2E-04 J	6.7E-06 U	2.0E-02	24.8

Fish Conversion													**TEC (4)**	**TEC (5)**
Mummichog (mg/kg)						##							**wet wt.**	**dry wt.**
Old Place Creek	MC-W	1.5E-08	--	4.2E-08	--	1.8E-08	6.8E-10	4.8E-08	--	6.3E-09	3.4E-09	6.1E-10	1.3E-07	5.0E-07
	MC-X	1.6E-08	--	4.0E-08	--	2.0E-08	1.1E-09	5.2E-08	--	6.9E-09	4.0E-09	9.0E-12	1.4E-07	5.4E-07
	MC-Y	1.0E-10	--	2.0E-10	--	1.7E-08	1.6E-12	5.5E-08	--	6.4E-09	3.7E-09	1.1E-10	8.3E-08	3.1E-07
	MC-Z	1.7E-10	--	7.7E-08	--	2.4E-08	1.5E-09	6.3E-08	--	7.1E-09	3.6E-09	1.7E-11	1.8E-07	7.1E-07

Avian Conversion													**TEC (4)**	**TEC (5)**
Mummichog (mg/kg)													**wet wt.**	**dry wt.**
Old Place Creek	MC-W	7.4E-06	--	8.5E-06	--	3.6E-07	1.4E-08	9.5E-08	--	1.3E-07	6.8E-09	1.2E-09	1.7E-05	6.1E-05
	MC-X	7.8E-06	--	8.1E-06	--	3.9E-07	2.3E-08	1.0E-07	--	1.4E-07	8.1E-09	1.8E-11	1.7E-05	6.5E-05
	MC-Y	5.0E-08	--	4.0E-08	--	3.5E-07	3.2E-11	1.1E-07	--	1.3E-07	7.3E-09	2.2E-10	6.8E-07	2.6E-06
	MC-Z	8.3E-08	--	1.5E-05	--	4.9E-07	3.0E-08	1.3E-07	--	1.4E-07	7.2E-09	3.4E-11	1.6E-05	6.6E-05

Mammalian Conversion													**TEC (4)**	**TEC (5)**
Mummichog (mg/kg)													**wet wt.**	**dry wt.**
Old Place Creek	MC-W	1.48E-08	--	8.48E-06	--	1.07E-07	4.08E-09	2.85E-07	--	3.77E-08	2.05E-08	3.69E-09	9.0E-06	3.3E-05
	MC-X	1.57E-08	--	8.09E-06	--	1.17E-07	6.82E-09	3.13E-07	--	4.12E-08	2.42E-08	5.4E-11	8.6E-06	3.3E-05
	MC-Y	1E-10	--	3.95E-08	--	1.05E-07	9.45E-12	3.32E-07	--	3.81E-08	2.19E-08	6.48E-10	5.4E-07	2.0E-06
	MC-Z	1.65E-10	--	1.54E-05	--	1.46E-07	8.98E-09	3.8E-07	--	4.28E-08	2.17E-08	1.01E-10	1.6E-05	6.4E-05

Notes:
(1) The reference stream known as Old Place Creek is located in Staten Island, New York, on the eastern side of Arthur Kill.
(2) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.
(3) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.
(4) For non-detect ("U" qualified) results, one-half the detection limit is used as a surrogate value for calculating total dioxin-like PCBs and TECs.
(5) Converted from wet weight using sample-specific moisture content (1-% solids).
(6) DUP = Duplicate sample.

Definitions:
TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor
mg/kg = milligram per kilogram
J = estimated value
U = non-detect value; detection limit presented

ATTACHMENT B

Table B-8
Old Place Creek Data
Surface Water

Sampling Area (1)	Sample ID	Date (2)	Arsenic	Barium	Chromium	Iron	Lead	Manganese	Mercury	Methyl Mercury	Zinc	2,3,7,8-TCDD Mammalian Dioxin TEC (3)	2,3,7,8-TCDD Avian Dioxin TEC (3)	2,3,7,8-TCDD Mammalian Furan TEC (3)	2,3,7,8-TCDD Avian Furan TEC (3)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Old Place Creek	SW-W	9/28/2006	2 U	200 U	10 U	100 U	3 U	**54.2**	0.2 U	**5.7E-05**	20 U	**2.5E-06**	**2.2E-06**	**9.0E-07**	**7.0E-07**
	SW-X	9/28/2006	**3.2**	200 U	10 U	100 U	3 U	**54**	0.2 U	**5.4E-05**	20 U	--	--	--	--
	SW-Y	9/28/2006	**3.6**	200 U	10 U	100 U	6 U	**55.1**	0.2 U	**6.4E-05**	20 U	**3.1E-06**	**2.9E-06**	**1.4E-06**	**1.1E-06**
	SW-Y-DUP (3)	9/28/2006	**3.6**	200 U	10 U	100 U	3 U	**54.5**	0.2 U	**6.5E-05**	20 U	**1.6E-06**	**1.4E-06**	**8.9E-07**	**7.3E-07**
	SW-Z	9/28/2006	**2.4**	200 U	10 U	100 U	3 U	**55.2**	0.2 U	**9.1E-05**	20 U	--	--	--	--

Notes:
(1) The reference stream known as Old Place Creek is located in Staten Island, New York, on the eastern side of Arthur Kill.
(3) Dioxin and furan toxic equivalency concentration (TEC) calculations are presented in Table B-9 (dioxins) and B-10 (furans).
(4) DUP = Duplicate sample.

Definitions:
µg/L = microgram per liter
PCB = polychlorinated biphenyl
2,3,7,8-TCDD = 2,3,7,8-tetrachlorodibenzo-p-dioxin
TEC = toxic equivalency concentration
Bold = detected concentration
J = estimated value
U = non-detect value; MDL presented
"--" = Data not available

ATTACHMENT B

Table B-9
Old Place Creek Data
TCDD TECs for Dioxin Congeners - Surface Water

Sampling Area [1]	Sample ID	Units	1,2,3,4,6,7,8-HPCDD	1,2,3,4,7,8-HXCDD	1,2,3,6,7,8-HXCDD	1,2,3,7,8,9-HXCDD	1,2,3,7,8-PECDD	2,3,7,8-TCDD	OCDD	Total Dioxins [4]
		Avian TEF [2]:	0.01	0.1	0.1	0.1	1.0	1.0	0.0003	
		Mammalian TEF [3]:	0.001	0.5	0.01	0.01	1.0	1.0	0.0001	
Old Place Creek	SW-W	µg/L	3.6E-06	2.6E-06 U	2.6E-06 U	2.6E-06 U	2.6E-06 U	9.7E-07 U	3.8E-05	4.8E-05
	SW-Y	µg/L	7.4E-06	1.2E-06	1.6E-06	1.2E-06	1.6E-06	8.9E-07 J	7.1E-05	8.5E-05
	SW-Y-DUP [5]	µg/L	3.6E-06	2.7E-06 U	2.7E-06 U	2.7E-06 U	4.8E-07	9.4E-07 U	3.7E-05	4.5E-05

Avian Conversion										TEC [4]
Old Place Creek	SW-W	µg/L	3.6E-08	1.3E-07	1.3E-07	1.3E-07	1.3E-06	4.9E-07	1.1E-08	2.2E-06
	SW-Y	µg/L	7.4E-08	1.2E-07	1.6E-07	1.2E-07	1.6E-06	8.9E-07	2.1E-08	2.9E-06
	SW-Y-DUP [5]	µg/L	3.6E-08	1.3E-07	1.3E-07	1.3E-07	4.8E-07	4.7E-07	1.1E-08	1.4E-06

Mammalian Conversion										TEC [4]
Old Place Creek	SW-W	µg/L	3.6E-09	6.5E-07	1.3E-08	1.3E-08	1.3E-06	4.9E-07	3.8E-09	2.5E-06
	SW-Y	µg/L	7.4E-09	5.8E-07	1.6E-08	1.2E-08	1.6E-06	8.9E-07	7.1E-09	3.1E-06
	SW-Y-DUP [5]	µg/L	3.6E-09	6.6E-07	1.3E-08	1.3E-08	4.8E-07	4.7E-07	3.7E-09	1.6E-06

Notes:

(1) The reference stream known as Old Place Creek is located in Staten Island, New York, on the eastern side of Arthur Kill.

(2) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.

(3) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.

(4) For non-detect ("U" qualified) results, one-half the detection limit is used as a surrogate value for calculating dioxin TECs.

(5) DUP = Duplicate sample.

Definitions:

TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor

µg/L = microgram per liter
J = estimated value
U = non-detect value; detection limit presented

ATTACHMENT B

Table B-10
Old Place Creek Data
TCDD TECs for Furan Congeners - Surface Water

Sampling Area [1]	Sample ID	Units	1,2,3,4,6,7,8-HPCDF	1,2,3,4,7,8,9-HPCDF	1,2,3,4,7,8-HXCDF	1,2,3,6,7,8-HXCDF	1,2,3,7,8,9-HXCDF	1,2,3,7,8-PECDF	2,3,4,6,7,8-HXCDF	2,3,4,7,8-PECDF	2,3,7,8-TCDF	OCDF	Total Furans [4]
		Avian TEF [2]:	0.01	0.01	0.1	0.1	0.1	0.0	0.1	0.3	0.1	0.0003	
		Mammalian TEF [3]:	0.01	0.01	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.0001	
Old Place Creek	SW-W	µg/L	2.1E-06	2.6E-06 U	7.6E-07	5.3E-07	2.6E-06 U	7.4E-07	5.5E-07	9.9E-07	7.1E-07 U	3.0E-06	1.2E-05
	SW-Y	µg/L	3.4E-06	1.1E-06	1.3E-06	1.4E-06	1.0E-06	1.5E-06	1.2E-06	1.6E-06	6.6E-07 U	6.3E-06	1.9E-05
	SW-Y-DUP [5]	µg/L	1.9E-06	2.7E-06 U	7.4E-07	5.9E-07	2.7E-06 U	5.5E-07	2.7E-06 U	8.4E-07	6.1E-07 U	3.4E-06	1.2E-05

Avian Conversion													TEC [4]
Old Place Creek	SW-W	µg/L	2.1E-08	1.3E-08	7.6E-08	5.3E-08	1.3E-07	2.2E-08	5.5E-08	3.0E-07	3.6E-08	9.0E-10	7.0E-07
	SW-Y	µg/L	3.4E-08	1.1E-08	1.3E-07	1.4E-07	1.0E-07	4.5E-08	1.2E-07	4.7E-07	3.3E-08	1.9E-09	1.1E-06
	SW-Y-DUP [5]	µg/L	1.9E-08	1.3E-08	7.4E-08	5.9E-08	1.3E-07	1.7E-08	1.3E-07	2.5E-07	3.1E-08	1.0E-09	7.3E-07

Mammalian Conversion													TEC [4]
Old Place Creek	SW-W	µg/L	2.1E-08	1.3E-08	7.6E-08	5.3E-08	1.3E-07	3.7E-08	5.5E-08	5.0E-07	1.8E-08	3.0E-10	9.0E-07
	SW-Y	µg/L	3.4E-08	1.1E-08	1.3E-07	1.4E-07	1.0E-07	7.5E-08	1.2E-07	7.9E-07	1.7E-08	6.3E-10	1.4E-06
	SW-Y-DUP [5]	µg/L	1.9E-08	1.3E-08	7.4E-08	5.9E-08	1.3E-07	2.8E-08	1.3E-07	4.2E-07	1.5E-08	3.4E-10	8.9E-07

Notes:

(1) The reference stream known as Old Place Creek is located in Staten Island, New York, on the eastern side of Arthur Kill.
(2) Van den Berg, et al. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs, for Humans and Wildlife. Enviro Health Perspect 106(12) 775-792.
(3) Van den Berg, et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. Toxicol Sci 93: 223-241.
(4) For non-detect ("U" qualified) results, one-half the detection limit is used as a surrogate value for calculating furan TECs.
(5) DUP = Duplicate sample.

Definitions:

TCDD = Tetrachlorodibenzo-p-dioxin
TEC = Toxic equivalency concentration
TEF = Toxic equivalency factor
µg/L = microgram per liter
J = estimated value
U = non-detect value; detection limit presented

FINAL
BASELINE ECOLOGICAL RISK ASSESSMENT
ATTACHMENT C

ProUCL Statistical Software Ouput

Pages 1-19	South Branch Creek Sediment
Pages 20-32	South Branch Creek Fiddler Crab Tissue
Pages 33-46	South Branch Creek Mummichog Tissue
Pages 47-54	South Branch Creek Surface Water
Pages 55-71	Upland Area Soil

ATTACHMENT C
ProUCL Statistical Software Output
South Branch Creek Sediment
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

Arsenic

General Statistics

Number of Valid Samples	70	Number of Unique Samples	68

Raw Statistics

Minimum	1.5
Maximum	5460
Mean	256.8
Median	40.05
SD	868.8
Coefficient of Variation	3.383
Skewness	4.954

Log-transformed Statistics

Minimum of Log Data	0.405
Maximum of Log Data	8.605
Mean of log Data	3.589
SD of log Data	1.832

Relevant UCL Statistics

Normal Distribution Test

Lilliefors Test Statistic	0.4
Lilliefors Critical Value	0.106

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Lilliefors Test Statistic	0.0559
Lilliefors Critical Value	0.106

Data appear Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	429.9

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	493.3
95% Modified-t UCL	440.2

Assuming Lognormal Distribution

95% H-UCL	392.2
95% Chebyshev (MVUE) UCL	438.7
97.5% Chebyshev (MVUE) UCL	549.5
99% Chebyshev (MVUE) UCL	767.3

Gamma Distribution Test

k star (bias corrected)	0.339
Theta Star	757.7
nu star	47.44
Approximate Chi Square Value (.05)	32.64
Adjusted Level of Significance	0.0466
Adjusted Chi Square Value	32.38
Anderson-Darling Test Statistic	5.479
Anderson-Darling 5% Critical Value	0.855
Kolmogorov-Smirnov Test Statistic	0.222
Kolmogorov-Smirnov 5% Critical Value	0.115

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	373.3
95% Adjusted Gamma UCL	376.3

Nonparametric Test

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

95% CLT UCL	427.6
95% Jackknife UCL	429.9
95% Standard Bootstrap UCL	426.3
95% Bootstrap-t UCL	685.8
95% Hall's Bootstrap UCL	518.5
95% Percentile Bootstrap UCL	452.8
95% BCA Bootstrap UCL	510.4
95% Chebyshev(Mean, Sd) UCL	709.4
97.5% Chebyshev(Mean, Sd) UCL	905.3
99% Chebyshev(Mean, Sd) UCL	1290

Potential UCL to Use Use 95% H-UCL 392.2

Barium

General Statistics

Number of Valid Samples	70	Number of Unique Samples	69

Raw Statistics		**Log-transformed Statistics**	
Minimum	72.2	Minimum of Log Data	4.279
Maximum	18700	Maximum of Log Data	9.836
Mean	5757	Mean of log Data	8.096
Median	4545	SD of log Data	1.31
SD	4847		
Coefficient of Variation	0.842		
Skewness	0.852		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Lilliefors Test Statistic	0.12	Lilliefors Test Statistic	0.147
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	6723	95% H-UCL	11621
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	14259
95% Adjusted-CLT UCL	6773	97.5% Chebyshev (MVUE) UCL	17153
95% Modified-t UCL	6732	99% Chebyshev (MVUE) UCL	22837

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	0.99	Data appear Gamma Distributed at 5% Significance Level
Theta Star	5817	
nu star	138.5	
Approximate Chi Square Value (.05)	112.3	**Nonparametric Statistics**
Adjusted Level of Significance	0.0466	95% CLT UCL 6710
Adjusted Chi Square Value	111.9	95% Jackknife UCL 6723
		95% Standard Bootstrap UCL 6677
Anderson-Darling Test Statistic	0.631	95% Bootstrap-t UCL 6801
Anderson-Darling 5% Critical Value	0.78	95% Hall's Bootstrap UCL 6786
Kolmogorov-Smirnov Test Statistic	0.0781	95% Percentile Bootstrap UCL 6706
Kolmogorov-Smirnov 5% Critical Value	0.109	95% BCA Bootstrap UCL 6782
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 8282
		97.5% Chebyshev(Mean, Sd) UCL 9375
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 11521
95% Approximate Gamma UCL	7099	
95% Adjusted Gamma UCL	7130	

Potential UCL to Use		Use 95% Approximate Gamma UCL	7099

Chromium

General Statistics

Number of Valid Samples	70	Number of Unique Samples	68

Raw Statistics		**Log-transformed Statistics**	
Minimum	6.5	Minimum of Log Data	1.872
Maximum	2690	Maximum of Log Data	7.897
Mean	121.9	Mean of log Data	3.951
Median	51.08	SD of log Data	1.148
SD	329.4		
Coefficient of Variation	2.702		
Skewness	7.148		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Lilliefors Test Statistic	0.363	Lilliefors Test Statistic	0.0809
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	187.6	95% H-UCL	140
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	172.2
95% Adjusted-CLT UCL	222.6	97.5% Chebyshev (MVUE) UCL	203.9
95% Modified-t UCL	193.2	99% Chebyshev (MVUE) UCL	266.2

Gamma Distribution Test		**Nonparametric Test**	
k star (bias corrected)	0.687	Data appear Lognormal at 5% Significance Level	
Theta Star	177.4		
nu star	96.19		
Approximate Chi Square Value (.05)	74.57	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0466	95% CLT UCL	186.7
Adjusted Chi Square Value	74.17	95% Jackknife UCL	187.6
		95% Standard Bootstrap UCL	184.9
Anderson-Darling Test Statistic	3.212	95% Bootstrap-t UCL	344.6
Anderson-Darling 5% Critical Value	0.797	95% Hall's Bootstrap UCL	414.4
Kolmogorov-Smirnov Test Statistic	0.136	95% Percentile Bootstrap UCL	195.3
Kolmogorov-Smirnov 5% Critical Value	0.111	95% BCA Bootstrap UCL	244.3
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	293.5
		97.5% Chebyshev(Mean, Sd) UCL	367.8
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	513.7
95% Approximate Gamma UCL	157.3		
95% Adjusted Gamma UCL	158.1		

Potential UCL to Use		Use 95% H-UCL	140

Chromium, Hexavalent

General Statistics

Number of Valid Samples	30	Number of Detected Data	11
Number of Unique Samples	11	Number of Non-Detect Data	19
		Percent Non-Detects	63.33%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	1.9	Minimum Detected	0.642
Maximum Detected	7.5	Maximum Detected	2.015
Mean of Detected	4.555	Mean of Detected	1.427
SD of Detected	1.911	SD of Detected	0.456
Minimum Non-Detect	1.3	Minimum Non-Detect	0.262
Maximum Non-Detect	6.4	Maximum Non-Detect	1.856

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	28
Number treated as Detected	2
Single DL Non-Detect Percentage	93.33%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.923	Shapiro Wilk Test Statistic	0.921
5% Shapiro Wilk Critical Value	0.85	5% Shapiro Wilk Critical Value	0.85
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	2.618	Mean	0.709
SD	1.964	SD	0.721
95% DL/2 (t) UCL	3.227	95% H-Stat (DL/2) UCL	3.505
Maximum Likelihood Estimate(MLE) Method	N/A	Robust ROS Method	
		Mean in Log Scale	0.763
		SD in Log Scale	0.603
		Mean in Original Scale	2.613
		SD in Original Scale	1.889
		95% Percentile Bootstrap UCL	3.185
		95% BCA Bootstrap UCL	3.305

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	4.256	Data appear Normal at 5% Significance Level
Theta Star	1.07	
nu star	93.64	
A-D Test Statistic	0.463	
5% A-D Critical Value	0.731	
K-S Test Statistic	0.731	
5% K-S Critical Value	0.256	
Data appear Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution	
Gamma ROS Statistics using Extrapolated Data	
Minimum	N/A
Maximum	N/A
Mean	N/A
Median	N/A
SD	N/A
k star	N/A
Theta star	N/A
Nu star	N/A
AppChi2	N/A
95% Gamma Approximate UCL	N/A
95% Adjusted Gamma UCL	N/A

Nonparametric Statistics	
Kaplan-Meier (KM) Method	
Mean	2.967
SD	1.689
SE of Mean	0.333
95% KM (t) UCL	3.533
95% KM (z) UCL	3.515
95% KM (jackknife) UCL	3.493
95% KM (bootstrap t) UCL	3.582
95% KM (BCA) UCL	4.14
95% KM (percentile) UCL	3.858
95% KM (Chebyshev) UCL	4.419
97.5% KM (Chebyshev) UCL	5.047
99% KM (Chebyshev) UCL	6.28

Potential UCLs to Use	
95% KM (t) UCL	3.533
95% KM (Percentile Bootstrap) UCL	3.858

Copper

General Statistics

Number of Valid Samples	70	Number of Unique Samples	68

Raw Statistics		**Log-transformed Statistics**	
Minimum	10.3	Minimum of Log Data	2.332
Maximum	1100	Maximum of Log Data	7.003
Mean	212.8	Mean of log Data	4.767
Median	122.5	SD of log Data	1.144
SD	242.4		
Coefficient of Variation	1.139		
Skewness	1.986		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Lilliefors Test Statistic	0.202	Lilliefors Test Statistic	0.0773
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	261.1	95% H-UCL	315
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	387.5
95% Adjusted-CLT UCL	267.8	97.5% Chebyshev (MVUE) UCL	458.6
95% Modified-t UCL	262.2	99% Chebyshev (MVUE) UCL	598.4

Gamma Distribution Test		**Nonparametric Test**	
k star (bias corrected)	0.944	Data appear Lognormal at 5% Significance Level	
Theta Star	225.5		
nu star	132.1		
Approximate Chi Square Value (.05)	106.6	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0466	95% CLT UCL	260.4
Adjusted Chi Square Value	106.1	95% Jackknife UCL	261.1
		95% Standard Bootstrap UCL	261.1
Anderson-Darling Test Statistic	1.003	95% Bootstrap-t UCL	272.7
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	267
Kolmogorov-Smirnov Test Statistic	0.127	95% Percentile Bootstrap UCL	260.1
Kolmogorov-Smirnov 5% Critical Value	0.11	95% BCA Bootstrap UCL	268.4
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	339.1
		97.5% Chebyshev(Mean, Sd) UCL	393.7
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	501.1
95% Approximate Gamma UCL	263.8		
95% Adjusted Gamma UCL	265		

Potential UCL to Use		Use 95% H-UCL	315

Iron

General Statistics

Number of Valid Samples	70	Number of Unique Samples	64

Raw Statistics

Minimum	5650
Maximum	247000
Mean	33429
Median	23350
SD	42242
Coefficient of Variation	1.264
Skewness	4.014

Log-transformed Statistics

Minimum of Log Data	8.639
Maximum of Log Data	12.42
Mean of log Data	10.06
SD of log Data	0.77

Relevant UCL Statistics

Normal Distribution Test

Lilliefors Test Statistic	0.284
Lilliefors Critical Value	0.106

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Lilliefors Test Statistic	0.0883
Lilliefors Critical Value	0.106

Data appear Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	41847

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	44322
95% Modified-t UCL	42251

Assuming Lognormal Distribution

95% H-UCL	37952
95% Chebyshev (MVUE) UCL	45245
97.5% Chebyshev (MVUE) UCL	51314
99% Chebyshev (MVUE) UCL	63234

Gamma Distribution Test

k star (bias corrected)	1.479
Theta Star	22596
nu star	207.1
Approximate Chi Square Value (.05)	174.8
Adjusted Level of Significance	0.0466
Adjusted Chi Square Value	174.2
Anderson-Darling Test Statistic	2.417
Anderson-Darling 5% Critical Value	0.768
Kolmogorov-Smirnov Test Statistic	0.149
Kolmogorov-Smirnov 5% Critical Value	0.108

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	39606
95% Adjusted Gamma UCL	39747

Nonparametric Test

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

95% CLT UCL	41734
95% Jackknife UCL	41847
95% Standard Bootstrap UCL	41761
95% Bootstrap-t UCL	49522
95% Hall's Bootstrap UCL	74324
95% Percentile Bootstrap UCL	42062
95% BCA Bootstrap UCL	44815
95% Chebyshev(Mean, Sd) UCL	55437
97.5% Chebyshev(Mean, Sd) UCL	64959
99% Chebyshev(Mean, Sd) UCL	83665

Potential UCL to Use

Use 95% H-UCL 37952

Lead

General Statistics

Number of Valid Samples	70	Number of Unique Samples	66

Raw Statistics		**Log-transformed Statistics**	
Minimum	9.2	Minimum of Log Data	2.219
Maximum	3950	Maximum of Log Data	8.281
Mean	418.8	Mean of log Data	5.297
Median	218.5	SD of log Data	1.286
SD	613.8		
Coefficient of Variation	1.466		
Skewness	3.606		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Lilliefors Test Statistic	0.252	Lilliefors Test Statistic	0.061
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	541.1	95% H-UCL	677.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	832.3
95% Adjusted-CLT UCL	573.2	97.5% Chebyshev (MVUE) UCL	998.9
95% Modified-t UCL	546.3	99% Chebyshev (MVUE) UCL	1326

Gamma Distribution Test		**Nonparametric Test**	
k star (bias corrected)	0.777	Data appear Gamma Distributed at 5% Significance Level	
Theta Star	539.3		
nu star	108.7		
Approximate Chi Square Value (.05)	85.65	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0466	95% CLT UCL	539.4
Adjusted Chi Square Value	85.22	95% Jackknife UCL	541.1
		95% Standard Bootstrap UCL	545.2
Anderson-Darling Test Statistic	0.788	95% Bootstrap-t UCL	618.4
Anderson-Darling 5% Critical Value	0.79	95% Hall's Bootstrap UCL	679.9
Kolmogorov-Smirnov Test Statistic	0.0887	95% Percentile Bootstrap UCL	552.7
Kolmogorov-Smirnov 5% Critical Value	0.11	95% BCA Bootstrap UCL	594.4
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	738.5
		97.5% Chebyshev(Mean, Sd) UCL	876.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1149
95% Approximate Gamma UCL	531.5		
95% Adjusted Gamma UCL	534.2		
Potential UCL to Use		Use 95% Approximate Gamma UCL	531.5

Manganese

General Statistics

Number of Valid Samples	70	Number of Unique Samples	66

Raw Statistics		**Log-transformed Statistics**	
Minimum	38.7	Minimum of Log Data	3.656
Maximum	1300	Maximum of Log Data	7.17
Mean	248.7	Mean of log Data	5.219
Median	195.5	SD of log Data	0.746
SD	244.6		
Coefficient of Variation	0.984		
Skewness	3.05		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Lilliefors Test Statistic	0.244	Lilliefors Test Statistic	0.0838
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	297.4	95% H-UCL	292.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	347.6
95% Adjusted-CLT UCL	308.2	97.5% Chebyshev (MVUE) UCL	393
95% Modified-t UCL	299.2	99% Chebyshev (MVUE) UCL	482.1

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	1.761	Data appear Lognormal at 5% Significance Level
Theta Star	141.2	
nu star	246.6	
Approximate Chi Square Value (.05)	211.2	
Adjusted Level of Significance	0.0466	
Adjusted Chi Square Value	210.5	
Anderson-Darling Test Statistic	1.498	
Anderson-Darling 5% Critical Value	0.765	
Kolmogorov-Smirnov Test Statistic	0.134	
Kolmogorov-Smirnov 5% Critical Value	0.108	
Data not Gamma Distributed at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	296.8
95% Jackknife UCL	297.4
95% Standard Bootstrap UCL	295.1
95% Bootstrap-t UCL	320.9
95% Hall's Bootstrap UCL	314.4
95% Percentile Bootstrap UCL	296.8
95% BCA Bootstrap UCL	309.2
95% Chebyshev(Mean, Sd) UCL	376.1
97.5% Chebyshev(Mean, Sd) UCL	431.3
99% Chebyshev(Mean, Sd) UCL	539.6

Assuming Gamma Distribution	
95% Approximate Gamma UCL	290.3
95% Adjusted Gamma UCL	291.3

Potential UCL to Use	Use 95% H-UCL 292.6

Mercury

General Statistics

Number of Valid Samples	74	Number of Unique Samples	69

Raw Statistics		**Log-transformed Statistics**	
Minimum	0.38	Minimum of Log Data	-0.968
Maximum	3050	Maximum of Log Data	8.023
Mean	322	Mean of log Data	4.393
Median	151.5	SD of log Data	2.125
SD	598.1		
Coefficient of Variation	1.857		
Skewness	3.194		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Lilliefors Test Statistic	0.324	Lilliefors Test Statistic	0.164
Lilliefors Critical Value	0.103	Lilliefors Critical Value	0.103
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	437.9	95% H-UCL	1869
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1896
95% Adjusted-CLT UCL	464	97.5% Chebyshev (MVUE) UCL	2412
95% Modified-t UCL	442.2	99% Chebyshev (MVUE) UCL	3424
Gamma Distribution Test		**Nonparametric Test**	
k star (bias corrected)	0.455	Data do not follow a Discernable Distribution (0.05)	
Theta Star	707.7		
nu star	67.34		
Approximate Chi Square Value (.05)	49.46	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0468	95% CLT UCL	436.4
Adjusted Chi Square Value	49.15	95% Jackknife UCL	437.9
		95% Standard Bootstrap UCL	438.9
Anderson-Darling Test Statistic	1.734	95% Bootstrap-t UCL	491.9
Anderson-Darling 5% Critical Value	0.826	95% Hall's Bootstrap UCL	453.4
Kolmogorov-Smirnov Test Statistic	0.147	95% Percentile Bootstrap UCL	443.4
Kolmogorov-Smirnov 5% Critical Value	0.11	95% BCA Bootstrap UCL	469.2
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	625.1
		97.5% Chebyshev(Mean, Sd) UCL	756.2
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	1014
95% Approximate Gamma UCL	438.5		
95% Adjusted Gamma UCL	441.2		
Potential UCL to Use		Use 99% Chebyshev (Mean, Sd) UCL	1014

Methyl Mercury

General Statistics

Number of Valid Samples	42	Number of Unique Samples	42

Raw Statistics		**Log-transformed Statistics**	
Minimum	0.0008	Minimum of Log Data	-7.131
Maximum	0.106	Maximum of Log Data	-2.244
Mean	0.032	Mean of log Data	-3.858
Median	0.0227	SD of log Data	1.075
SD	0.0262		
Coefficient of Variation	0.82		
Skewness	1.188		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.846	Shapiro Wilk Test Statistic	0.892
Shapiro Wilk Critical Value	0.942	Shapiro Wilk Critical Value	0.942
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	0.0388	95% H-UCL	0.0567
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0685
95% Adjusted-CLT UCL	0.0394	97.5% Chebyshev (MVUE) UCL	0.0822
95% Modified-t UCL	0.0389	99% Chebyshev (MVUE) UCL	0.109

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	1.264	Data appear Gamma Distributed at 5% Significance Level
Theta Star	0.0253	
nu star	106.2	
Approximate Chi Square Value (.05)	83.42	**Nonparametric Statistics**
Adjusted Level of Significance	0.0443	95% CLT UCL 0.0386
Adjusted Chi Square Value	82.7	95% Jackknife UCL 0.0388
		95% Standard Bootstrap UCL 0.0387
Anderson-Darling Test Statistic	0.213	95% Bootstrap-t UCL 0.0403
Anderson-Darling 5% Critical Value	0.77	95% Hall's Bootstrap UCL 0.0399
Kolmogorov-Smirnov Test Statistic	0.0834	95% Percentile Bootstrap UCL 0.039
Kolmogorov-Smirnov 5% Critical Value	0.139	95% BCA Bootstrap UCL 0.0396
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 0.0496
		97.5% Chebyshev(Mean, Sd) UCL 0.0573
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 0.0722
95% Approximate Gamma UCL	0.0407	
95% Adjusted Gamma UCL	0.0411	

Potential UCL to Use		Use 95% Approximate Gamma UCL	0.0407

Vanadium

General Statistics

Number of Valid Samples	70	Number of Unique Samples	66

Raw Statistics		**Log-transformed Statistics**	
Minimum	10.6	Minimum of Log Data	2.361
Maximum	129	Maximum of Log Data	4.86
Mean	42.49	Mean of log Data	3.531
Median	35.65	SD of log Data	0.67
SD	28.86		
Coefficient of Variation	0.679		
Skewness	1.113		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Lilliefors Test Statistic	0.14	Lilliefors Test Statistic	0.0772
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	48.24	95% H-UCL	50.08
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	58.79
95% Adjusted-CLT UCL	48.65	97.5% Chebyshev (MVUE) UCL	65.81
95% Modified-t UCL	48.32	99% Chebyshev (MVUE) UCL	79.6

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	2.348	Data Follow Appr. Gamma Distribution at 5% Significance Level
Theta Star	18.1	
nu star	328.7	
Approximate Chi Square Value (.05)	287.7	**Nonparametric Statistics**
Adjusted Level of Significance	0.0466	95% CLT UCL 48.16
Adjusted Chi Square Value	286.9	95% Jackknife UCL 48.24
		95% Standard Bootstrap UCL 47.96
Anderson-Darling Test Statistic	0.894	95% Bootstrap-t UCL 48.57
Anderson-Darling 5% Critical Value	0.761	95% Hall's Bootstrap UCL 48.37
Kolmogorov-Smirnov Test Statistic	0.103	95% Percentile Bootstrap UCL 48.25
Kolmogorov-Smirnov 5% Critical Value	0.107	95% BCA Bootstrap UCL 48.36
Data follow Appr. Gamma Distribution at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 57.52
		97.5% Chebyshev(Mean, Sd) UCL 64.03
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 76.81
95% Approximate Gamma UCL	48.54	
95% Adjusted Gamma UCL	48.68	

Potential UCL to Use		Use 95% Approximate Gamma UCL	48.54

Zinc

General Statistics

Number of Valid Samples	70	Number of Unique Samples	67

Raw Statistics		Log-transformed Statistics	
Minimum	27.3	Minimum of Log Data	3.307
Maximum	8020	Maximum of Log Data	8.99
Mean	1223	Mean of log Data	6.282
Median	658.5	SD of log Data	1.407
SD	1654		
Coefficient of Variation	1.352		
Skewness	2.399		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.237	Lilliefors Test Statistic	0.0786
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1553	95% H-UCL	2268
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2764
95% Adjusted-CLT UCL	1609	97.5% Chebyshev (MVUE) UCL	3354
95% Modified-t UCL	1562	99% Chebyshev (MVUE) UCL	4513

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	0.705	Data appear Gamma Distributed at 5% Significance Level
Theta Star	1735	
nu star	98.7	
Approximate Chi Square Value (.05)	76.78	**Nonparametric Statistics**
Adjusted Level of Significance	0.0466	95% CLT UCL 1548
Adjusted Chi Square Value	76.38	95% Jackknife UCL 1553
		95% Standard Bootstrap UCL 1538
Anderson-Darling Test Statistic	0.727	95% Bootstrap-t UCL 1620
Anderson-Darling 5% Critical Value	0.795	95% Hall's Bootstrap UCL 1608
Kolmogorov-Smirnov Test Statistic	0.0868	95% Percentile Bootstrap UCL 1560
Kolmogorov-Smirnov 5% Critical Value	0.111	95% BCA Bootstrap UCL 1633
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 2085
		97.5% Chebyshev(Mean, Sd) UCL 2458
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 3190
95% Approximate Gamma UCL	1572	
95% Adjusted Gamma UCL	1581	

Potential UCL to Use		Use 95% Approximate Gamma UCL	1572

Aroclor 1254/1260

General Statistics

Number of Valid Samples	70	Number of Unique Samples	54

Raw Statistics		**Log-transformed Statistics**	
Minimum	0.0144	Minimum of Log Data	-4.244
Maximum	2.739	Maximum of Log Data	1.007
Mean	0.182	Mean of log Data	-2.849
Median	0.0381	SD of log Data	1.259
SD	0.451		
Coefficient of Variation	2.473		
Skewness	4.417		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Lilliefors Test Statistic	0.368	Lilliefors Test Statistic	0.203
Lilliefors Critical Value	0.106	Lilliefors Critical Value	0.106
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	0.272	95% H-UCL	0.187
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.23
95% Adjusted-CLT UCL	0.301	97.5% Chebyshev (MVUE) UCL	0.276
95% Modified-t UCL	0.277	99% Chebyshev (MVUE) UCL	0.365

Gamma Distribution Test		**Nonparametric Test**	
k star (bias corrected)	0.532	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.342		
nu star	74.54		
Approximate Chi Square Value (.05)	55.66	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0466	95% CLT UCL	0.271
Adjusted Chi Square Value	55.31	95% Jackknife UCL	0.272
		95% Standard Bootstrap UCL	0.27
Anderson-Darling Test Statistic	7.992	95% Bootstrap-t UCL	0.37
Anderson-Darling 5% Critical Value	0.812	95% Hall's Bootstrap UCL	0.575
Kolmogorov-Smirnov Test Statistic	0.319	95% Percentile Bootstrap UCL	0.28
Kolmogorov-Smirnov 5% Critical Value	0.112	95% BCA Bootstrap UCL	0.301
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.417
		97.5% Chebyshev(Mean, Sd) UCL	0.519
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.718
95% Approximate Gamma UCL	0.244		
95% Adjusted Gamma UCL	0.246		
Potential UCL to Use		Use 97.5% Chebyshev (Mean, Sd) UCL	0.519

2,3,7,8-TCDD Benthic Dioxin TEC

General Statistics

Number of Valid Observations	18	Number of Distinct Observations	18

Raw Statistics		**Log-transformed Statistics**	
Minimum	8.654E-07	Minimum of Log Data	-13.96007
Maximum	0.00008606	Maximum of Log Data	-9.360466
Mean	1.1674E-05	Mean of log Data	-12.1254
Geometric Mean	5.4201E-06	SD of log Data	1.1603081
Median	4.6155E-06		
SD	2.0192E-05		
Std. Error of Mean	4.7594E-06		
Coefficient of Variation	N/A		
Skewness	3.3138948		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.5374014	Shapiro Wilk Test Statistic	0.951655
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	1.9953E-05	95% H-UCL	0.00002389
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2.3604E-05
95% Adjusted-CLT UCL (Chen-1995)	2.3474E-05	97.5% Chebyshev (MVUE) UCL	2.9475E-05
95% Modified-t UCL (Johnson-1978)	2.0573E-05	99% Chebyshev (MVUE) UCL	4.1007E-05

Gamma Distribution Test		**Data Distribution**
k star (bias corrected)	0.6842021	Data appear Lognormal at 5% Significance Level
Theta Star	1.7062E-05	
MLE of Mean	1.1674E-05	
MLE of Standard Deviation	1.4113E-05	
nu star	24.631276	
Approximate Chi Square Value (.05)	14.329718	**Nonparametric Statistics**
Adjusted Level of Significance	0.03574	95% CLT UCL 1.9502E-05
Adjusted Chi Square Value	13.578022	95% Jackknife UCL 1.9953E-05
		95% Standard Bootstrap UCL 1.9176E-05
Anderson-Darling Test Statistic	1.1144643	95% Bootstrap-t UCL 3.8059E-05
Anderson-Darling 5% Critical Value	0.7767424	95% Hall's Bootstrap UCL 4.7471E-05
Kolmogorov-Smirnov Test Statistic	0.2286106	95% Percentile Bootstrap UCL 1.9925E-05
Kolmogorov-Smirnov 5% Critical Value	0.2112183	95% BCA Bootstrap UCL 2.4959E-05
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 3.2419E-05
		97.5% Chebyshev(Mean, Sd) UCL 4.1396E-05
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 5.9029E-05
95% Approximate Gamma UCL (Use when n >= 40)	2.0066E-05	
95% Adjusted Gamma UCL (Use when n < 40)	2.1177E-05	

Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL 3.2419E-05

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

2,3,7,8-TCDD Mammalian Dioxin TEC

General Statistics

Number of Valid Observations	18	Number of Distinct Observations	18

Raw Statistics		**Log-transformed Statistics**	
Minimum	1.1336E-06	Minimum of Log Data	-13.69016
Maximum	9.4711E-05	Maximum of Log Data	-9.26468
Mean	1.3249E-05	Mean of log Data	-11.94654
Geometric Mean	6.4816E-06	SD of log Data	1.1063787
Median	5.3537E-06		
SD	2.2283E-05		
Std. Error of Mean	5.2522E-06		
Coefficient of Variation	N/A		
Skewness	3.2555925		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.5417052	Shapiro Wilk Test Statistic	0.9423112
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	2.2386E-05	95% H-UCL	2.5312E-05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2.5914E-05
95% Adjusted-CLT UCL (Chen-1995)	2.6195E-05	97.5% Chebyshev (MVUE) UCL	0.00003221
95% Modified-t UCL (Johnson-1978)	2.3058E-05	99% Chebyshev (MVUE) UCL	4.4576E-05

Gamma Distribution Test		**Data Distribution**
k star (bias corrected)	0.7258238	Data appear Lognormal at 5% Significance Level
Theta Star	1.8254E-05	
MLE of Mean	1.3249E-05	
MLE of Standard Deviation	1.5552E-05	
nu star	26.129658	
Approximate Chi Square Value (.05)	15.479222	**Nonparametric Statistics**
Adjusted Level of Significance	0.03574	95% CLT UCL 2.1889E-05
Adjusted Chi Square Value	14.694716	95% Jackknife UCL 2.2386E-05
		95% Standard Bootstrap UCL 2.1693E-05
Anderson-Darling Test Statistic	1.2164465	95% Bootstrap-t UCL 4.0185E-05
Anderson-Darling 5% Critical Value	0.7744749	95% Hall's Bootstrap UCL 5.2873E-05
Kolmogorov-Smirnov Test Statistic	0.2345506	95% Percentile Bootstrap UCL 2.2463E-05
Kolmogorov-Smirnov 5% Critical Value	0.2108207	95% BCA Bootstrap UCL 2.7706E-05
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 3.6143E-05
		97.5% Chebyshev(Mean, Sd) UCL 0.00004605
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 6.5509E-05
95% Approximate Gamma UCL (Use when n >= 40)	2.2366E-05	
95% Adjusted Gamma UCL (Use when n < 40)	0.00002356	

Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL 3.6143E-05

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

2,3,7,8-TCDD Avian Dioxin TEC

General Statistics

Number of Valid Observations	18	Number of Distinct Observations	18

Raw Statistics		Log-transformed Statistics	
Minimum	8.4998E-07	Minimum of Log Data	-13.97806
Maximum	8.1099E-05	Maximum of Log Data	-9.41984
Mean	1.0848E-05	Mean of log Data	-12.20879
Geometric Mean	4.9864E-06	SD of log Data	1.1673719
Median	4.409E-06		
SD	1.8975E-05		
Std. Error of Mean	4.4725E-06		
Coefficient of Variation	N/A		
Skewness	3.3561664		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.5320944	Shapiro Wilk Test Statistic	0.9505302
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.8628E-05	95% H-UCL	2.2339E-05
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2.1962E-05
95% Adjusted-CLT UCL (Chen-1995)	2.1985E-05	97.5% Chebyshev (MVUE) UCL	2.7441E-05
95% Modified-t UCL (Johnson-1978)	1.9218E-05	99% Chebyshev (MVUE) UCL	3.8203E-05

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.6768502	Data appear Lognormal at 5% Significance Level
Theta Star	1.6027E-05	
MLE of Mean	1.0848E-05	
MLE of Standard Deviation	1.3185E-05	
nu star	24.366608	
Approximate Chi Square Value (.05)	14.127784	
Adjusted Level of Significance	0.03574	
Adjusted Chi Square Value	13.381983	
Anderson-Darling Test Statistic	1.0974166	
Anderson-Darling 5% Critical Value	0.777143	
Kolmogorov-Smirnov Test Statistic	0.2208305	
Kolmogorov-Smirnov 5% Critical Value	0.2112885	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution	
95% Approximate Gamma UCL (Use when n >= 40)	1.8709E-05
95% Adjusted Gamma UCL (Use when n < 40)	1.9752E-05

Nonparametric Statistics	
95% CLT UCL	1.8204E-05
95% Jackknife UCL	1.8628E-05
95% Standard Bootstrap UCL	1.7807E-05
95% Bootstrap-t UCL	3.6194E-05
95% Hall's Bootstrap UCL	4.4355E-05
95% Percentile Bootstrap UCL	1.8614E-05
95% BCA Bootstrap UCL	2.3538E-05
95% Chebyshev(Mean, Sd) UCL	3.0343E-05
97.5% Chebyshev(Mean, Sd) UCL	3.8778E-05
99% Chebyshev(Mean, Sd) UCL	5.5348E-05

Potential UCL to Use	Use 95% Chebyshev (Mean, Sd) UCL 3.0343E-05

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

2,3,7,8-TCDD Benthic Furan TEC

General Statistics

Number of Valid Observations	18	Number of Distinct Observations	18

Raw Statistics		**Log-transformed Statistics**	
Minimum	2.765E-06	Minimum of Log Data	-12.79847
Maximum	0.0002621	Maximum of Log Data	-8.246784
Mean	8.2981E-05	Mean of log Data	-10.14534
Geometric Mean	3.9259E-05	SD of log Data	1.4928902
Median	5.2895E-05		
SD	8.3612E-05		
Std. Error of Mean	1.9708E-05		
Coefficient of Variation	N/A		
Skewness	0.9639153		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.8597596	Shapiro Wilk Test Statistic	0.9170005
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	0.00011726	95% H-UCL	0.00041303
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00029937
95% Adjusted-CLT UCL (Chen-1995)	0.00012018	97.5% Chebyshev (MVUE) UCL	0.0003827
95% Modified-t UCL (Johnson-1978)	0.00011801	99% Chebyshev (MVUE) UCL	0.00054638

Gamma Distribution Test		**Data Distribution**
k star (bias corrected)	0.6985285	Data appear Gamma Distributed at 5% Significance Level
Theta Star	0.00011879	
MLE of Mean	8.2981E-05	
MLE of Standard Deviation	9.9286E-05	
nu star	25.147026	
Approximate Chi Square Value (.05)	14.724197	**Nonparametric Statistics**
Adjusted Level of Significance	0.03574	95% CLT UCL 0.0001154
Adjusted Chi Square Value	13.961101	95% Jackknife UCL 0.00011726
		95% Standard Bootstrap UCL 0.00011334
Anderson-Darling Test Statistic	0.3133162	95% Bootstrap-t UCL 0.00012706
Anderson-Darling 5% Critical Value	0.7759619	95% Hall's Bootstrap UCL 0.00011812
Kolmogorov-Smirnov Test Statistic	0.1051599	95% Percentile Bootstrap UCL 0.00011605
Kolmogorov-Smirnov 5% Critical Value	0.2110814	95% BCA Bootstrap UCL 0.00011849
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 0.00016888
		97.5% Chebyshev(Mean, Sd) UCL 0.00020605
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 0.00027907
95% Approximate Gamma UCL (Use when n >= 40)	0.00014172	
95% Adjusted Gamma UCL (Use when n < 40)	0.00014947	

Potential UCL to Use		Use 95% Approximate Gamma UCL	0.00014172

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

2,3,7,8-TCDD Mammalian Furan TEC

General Statistics

Number of Valid Observations	18	Number of Distinct Observations	18

Raw Statistics		**Log-transformed Statistics**	
Minimum	2.2473E-06	Minimum of Log Data	-13.00578
Maximum	0.00019536	Maximum of Log Data	-8.540692
Mean	6.6389E-05	Mean of log Data	-10.33387
Geometric Mean	3.2513E-05	SD of log Data	1.4673747
Median	4.4025E-05		
SD	6.4373E-05		
Std. Error of Mean	1.5173E-05		
Coefficient of Variation	N/A		
Skewness	0.8469979		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.8646215	Shapiro Wilk Test Statistic	0.9113434
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	9.2784E-05	95% H-UCL	0.00031753
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00023705
95% Adjusted-CLT UCL (Chen-1995)	9.4582E-05	97.5% Chebyshev (MVUE) UCL	0.00030257
95% Modified-t UCL (Johnson-1978)	9.3288E-05	99% Chebyshev (MVUE) UCL	0.00043127

Gamma Distribution Test		**Data Distribution**
k star (bias corrected)	0.7267608	Data appear Gamma Distributed at 5% Significance Level
Theta Star	9.1349E-05	
MLE of Mean	6.6389E-05	
MLE of Standard Deviation	7.7875E-05	
nu star	26.16339	
Approximate Chi Square Value (.05)	15.505219	**Nonparametric Statistics**
Adjusted Level of Significance	0.03574	95% CLT UCL 9.1346E-05
Adjusted Chi Square Value	14.719985	95% Jackknife UCL 9.2784E-05
		95% Standard Bootstrap UCL 9.0456E-05
Anderson-Darling Test Statistic	0.326735	95% Bootstrap-t UCL 9.7501E-05
Anderson-Darling 5% Critical Value	0.7744238	95% Hall's Bootstrap UCL 9.2019E-05
Kolmogorov-Smirnov Test Statistic	0.1219944	95% Percentile Bootstrap UCL 9.0802E-05
Kolmogorov-Smirnov 5% Critical Value	0.2108118	95% BCA Bootstrap UCL 9.3793E-05
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 0.00013253
		97.5% Chebyshev(Mean, Sd) UCL 0.00016114
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 0.00021736
95% Approximate Gamma UCL (Use when n >= 40)	0.00011202	
95% Adjusted Gamma UCL (Use when n < 40)	0.000118	

Potential UCL to Use		Use 95% Approximate Gamma UCL	0.00011202

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

2,3,7,8-TCDD Avian Furan TEC

General Statistics

Number of Valid Observations	18	Number of Distinct Observations	18

Raw Statistics		Log-transformed Statistics	
Minimum	6.358E-06	Minimum of Log Data	-11.9658
Maximum	0.0005873	Maximum of Log Data	-7.439982
Mean	0.00021914	Mean of log Data	-9.110384
Geometric Mean	0.00011051	SD of log Data	1.4991694
Median	0.00015071		
SD	0.00019613		
Std. Error of Mean	4.6227E-05		
Coefficient of Variation	0.8949618		
Skewness	0.6943148		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.8907071	Shapiro Wilk Test Statistic	0.8766906
Shapiro Wilk Critical Value	0.897	Shapiro Wilk Critical Value	0.897
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.00029956	95% H-UCL	0.0011844
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00085213
95% Adjusted-CLT UCL (Chen-1995)	0.00030326	97.5% Chebyshev (MVUE) UCL	0.0010897
95% Modified-t UCL (Johnson-1978)	0.00030082	99% Chebyshev (MVUE) UCL	0.0015564

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.752843	Data appear Gamma Distributed at 5% Significance Level
Theta Star	0.00029109	
MLE of Mean	0.00021914	
MLE of Standard Deviation	0.00025257	
nu star	27.102349	
Approximate Chi Square Value (.05)	16.230849	**Nonparametric Statistics**
Adjusted Level of Significance	0.03574	95% CLT UCL 0.00029518
Adjusted Chi Square Value	15.425533	95% Jackknife UCL 0.00029956
		95% Standard Bootstrap UCL 0.00029575
Anderson-Darling Test Statistic	0.3989038	95% Bootstrap-t UCL 0.00031526
Anderson-Darling 5% Critical Value	0.7730029	95% Hall's Bootstrap UCL 0.00030395
Kolmogorov-Smirnov Test Statistic	0.1306372	95% Percentile Bootstrap UCL 0.00029491
Kolmogorov-Smirnov 5% Critical Value	0.2105626	95% BCA Bootstrap UCL 0.00030045
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 0.00042064
		97.5% Chebyshev(Mean, Sd) UCL 0.00050783
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 0.0006791
95% Approximate Gamma UCL (Use when n >= 40)	0.00036593	
95% Adjusted Gamma UCL (Use when n < 40)	0.00038503	

Potential UCL to Use	Use 95% Approximate Gamma UCL 0.00036593

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

CRAB_Arsenic

General Statistics

Number of Valid Samples	10	Number of Unique Samples	10

Raw Statistics		**Log-transformed Statistics**	
Minimum	7.79	Minimum of Log Data	2.053
Maximum	54.2	Maximum of Log Data	3.993
Mean	14.89	Mean of log Data	2.468
Median	9.39	SD of log Data	0.613
SD	14.45		
Coefficient of Variation	0.971		
Skewness	2.739		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.539	Shapiro Wilk Test Statistic	0.666
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	23.26	95% H-UCL	23.19
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	26.01
95% Adjusted-CLT UCL	26.63	97.5% Chebyshev (MVUE) UCL	31.23
95% Modified-t UCL	23.92	99% Chebyshev (MVUE) UCL	41.49

Gamma Distribution Test		**Nonparametric Test**	
k star (bias corrected)	1.681	Data do not follow a Discernable Distribution (0.05)	
Theta Star	8.857		
nu star	33.62		
Approximate Chi Square Value (.05)	21.36	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0267	95% CLT UCL	22.4
Adjusted Chi Square Value	19.67	95% Jackknife UCL	23.26
		95% Standard Bootstrap UCL	21.89
Anderson-Darling Test Statistic	1.801	95% Bootstrap-t UCL	115.5
Anderson-Darling 5% Critical Value	0.735	95% Hall's Bootstrap UCL	76.09
Kolmogorov-Smirnov Test Statistic	0.423	95% Percentile Bootstrap UCL	22.67
Kolmogorov-Smirnov 5% Critical Value	0.269	95% BCA Bootstrap UCL	27.27
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	34.8
		97.5% Chebyshev(Mean, Sd) UCL	43.42
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	60.35
95% Approximate Gamma UCL	23.43		
95% Adjusted Gamma UCL	25.43		

Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	34.8

CRAB_Barium

General Statistics

Number of Valid Samples	10	Number of Unique Samples	9

Raw Statistics		**Log-transformed Statistics**	
Minimum	119	Minimum of Log Data	4.779
Maximum	3340	Maximum of Log Data	8.114
Mean	1053	Mean of log Data	6.364
Median	351.5	SD of log Data	1.185
SD	1131		
Coefficient of Variation	1.074		
Skewness	1.117		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.796	Shapiro Wilk Test Statistic	0.9
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	1709	95% H-UCL	4662
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	2881
95% Adjusted-CLT UCL	1776	97.5% Chebyshev (MVUE) UCL	3670
95% Modified-t UCL	1730	99% Chebyshev (MVUE) UCL	5220

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	0.748	Data Follow Appr. Gamma Distribution at 5% Significance Level
Theta Star	1409	
nu star	14.95	
Approximate Chi Square Value (.05)	7.228	**Nonparametric Statistics**
Adjusted Level of Significance	0.0267	95% CLT UCL 1641
Adjusted Chi Square Value	6.317	95% Jackknife UCL 1709
		95% Standard Bootstrap UCL 1597
Anderson-Darling Test Statistic	0.674	95% Bootstrap-t UCL 1928
Anderson-Darling 5% Critical Value	0.749	95% Hall's Bootstrap UCL 1613
Kolmogorov-Smirnov Test Statistic	0.301	95% Percentile Bootstrap UCL 1638
Kolmogorov-Smirnov 5% Critical Value	0.274	95% BCA Bootstrap UCL 1703
Data follow Appr. Gamma Distribution at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 2612
		97.5% Chebyshev(Mean, Sd) UCL 3286
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 4611
95% Approximate Gamma UCL	2179	
95% Adjusted Gamma UCL	2493	

Potential UCL to Use		Use 95% Approximate Gamma UCL	2179

CRAB_Chromium

General Statistics

Number of Valid Samples	10	Number of Unique Samples	10

Raw Statistics		Log-transformed Statistics	
Minimum	4.6	Minimum of Log Data	1.526
Maximum	37.2	Maximum of Log Data	3.616
Mean	18.04	Mean of log Data	2.735
Median	19.1	SD of log Data	0.637
SD	9.633		
Coefficient of Variation	0.534		
Skewness	0.496		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.955	Shapiro Wilk Test Statistic	0.931
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	23.62	95% H-UCL	31.62
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	35.08
95% Adjusted-CLT UCL	23.56	97.5% Chebyshev (MVUE) UCL	42.28
95% Modified-t UCL	23.7	99% Chebyshev (MVUE) UCL	56.42

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	2.396	Data appear Normal at 5% Significance Level
Theta Star	7.529	
nu star	47.92	
Approximate Chi Square Value (.05)	33.03	**Nonparametric Statistics**
Adjusted Level of Significance	0.0267	95% CLT UCL 23.05
Adjusted Chi Square Value	30.9	95% Jackknife UCL 23.62
		95% Standard Bootstrap UCL 22.69
Anderson-Darling Test Statistic	0.298	95% Bootstrap-t UCL 24.14
Anderson-Darling 5% Critical Value	0.731	95% Hall's Bootstrap UCL 24.71
Kolmogorov-Smirnov Test Statistic	0.21	95% Percentile Bootstrap UCL 22.65
Kolmogorov-Smirnov 5% Critical Value	0.268	95% BCA Bootstrap UCL 23.19
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 31.32
		97.5% Chebyshev(Mean, Sd) UCL 37.06
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 48.35
95% Approximate Gamma UCL	26.17	
95% Adjusted Gamma UCL	27.98	

Potential UCL to Use		Use 95% Student's-t UCL	23.62

CRAB_Copper

General Statistics

Number of Valid Samples	10	Number of Unique Samples	9

Raw Statistics		**Log-transformed Statistics**	
Minimum	119	Minimum of Log Data	4.779
Maximum	242	Maximum of Log Data	5.489
Mean	139.7	Mean of log Data	4.917
Median	127.5	SD of log Data	0.206
SD	36.4		
Coefficient of Variation	0.261		
Skewness	3.018		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.516	Shapiro Wilk Test Statistic	0.573
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	160.8	95% H-UCL	158.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	178.9
95% Adjusted-CLT UCL	170.4	97.5% Chebyshev (MVUE) UCL	196
95% Modified-t UCL	162.6	99% Chebyshev (MVUE) UCL	229.7

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	15.86	Data do not follow a Discernable Distribution (0.05)
Theta Star	8.809	
nu star	317.2	
Approximate Chi Square Value (.05)	276.9	**Nonparametric Statistics**
Adjusted Level of Significance	0.0267	95% CLT UCL 158.6
Adjusted Chi Square Value	270.4	95% Jackknife UCL 160.8
		95% Standard Bootstrap UCL 158.3
Anderson-Darling Test Statistic	2.002	95% Bootstrap-t UCL 243.7
Anderson-Darling 5% Critical Value	0.725	95% Hall's Bootstrap UCL 243.7
Kolmogorov-Smirnov Test Statistic	0.381	95% Percentile Bootstrap UCL 162.1
Kolmogorov-Smirnov 5% Critical Value	0.266	95% BCA Bootstrap UCL 174
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 189.9
		97.5% Chebyshev(Mean, Sd) UCL 211.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 254.2
95% Approximate Gamma UCL	160	
95% Adjusted Gamma UCL	163.9	

Potential UCL to Use		Use 95% Student's-t UCL	160.8
		or 95% Modified-t UCL	162.6

CRAB_Iron

General Statistics

Number of Valid Samples	10	Number of Unique Samples	10

Raw Statistics		**Log-transformed Statistics**	
Minimum	837	Minimum of Log Data	6.73
Maximum	2210	Maximum of Log Data	7.701
Mean	1403	Mean of log Data	7.205
Median	1370	SD of log Data	0.301
SD	425.7		
Coefficient of Variation	0.303		
Skewness	0.635		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.958	Shapiro Wilk Test Statistic	0.982
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	1650	95% H-UCL	1719
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1990
95% Adjusted-CLT UCL	1653	97.5% Chebyshev (MVUE) UCL	2244
95% Modified-t UCL	1654	99% Chebyshev (MVUE) UCL	2742

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	8.754	Data appear Normal at 5% Significance Level
Theta Star	160.3	
nu star	175.1	
Approximate Chi Square Value (.05)	145.5	**Nonparametric Statistics**
Adjusted Level of Significance	0.0267	
Adjusted Chi Square Value	140.8	
Anderson-Darling Test Statistic	0.172	
Anderson-Darling 5% Critical Value	0.725	
Kolmogorov-Smirnov Test Statistic	0.145	
Kolmogorov-Smirnov 5% Critical Value	0.267	
Data appear Gamma Distributed at 5% Significance Level		

		95% CLT UCL	1624
		95% Jackknife UCL	1650
		95% Standard Bootstrap UCL	1612
		95% Bootstrap-t UCL	1698
		95% Hall's Bootstrap UCL	1739
		95% Percentile Bootstrap UCL	1609
		95% BCA Bootstrap UCL	1637
		95% Chebyshev(Mean, Sd) UCL	1990
		97.5% Chebyshev(Mean, Sd) UCL	2244
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	2742
95% Approximate Gamma UCL	1688		
95% Adjusted Gamma UCL	1745		

Potential UCL to Use		Use 95% Student's-t UCL	1650

CRAB_Lead

General Statistics

Number of Valid Samples	10	Number of Unique Samples	10

Raw Statistics		**Log-transformed Statistics**	
Minimum	4.96	Minimum of Log Data	1.601
Maximum	35.6	Maximum of Log Data	3.572
Mean	13.41	Mean of log Data	2.427
Median	9.4	SD of log Data	0.586
SD	9.208		
Coefficient of Variation	0.687		
Skewness	1.807		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.805	Shapiro Wilk Test Statistic	0.956
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	18.74	95% H-UCL	21.26
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	24.09
95% Adjusted-CLT UCL	19.97	97.5% Chebyshev (MVUE) UCL	28.81
95% Modified-t UCL	19.02	99% Chebyshev (MVUE) UCL	38.07

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	2.25	Data appear Gamma Distributed at 5% Significance Level
Theta Star	5.959	
nu star	45	
Approximate Chi Square Value (.05)	30.61	
Adjusted Level of Significance	0.0267	
Adjusted Chi Square Value	28.56	
Anderson-Darling Test Statistic	0.422	
Anderson-Darling 5% Critical Value	0.732	
Kolmogorov-Smirnov Test Statistic	0.223	
Kolmogorov-Smirnov 5% Critical Value	0.268	
Data appear Gamma Distributed at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	18.2
95% Jackknife UCL	18.74
95% Standard Bootstrap UCL	17.92
95% Bootstrap-t UCL	23.02
95% Hall's Bootstrap UCL	38.59
95% Percentile Bootstrap UCL	18.37
95% BCA Bootstrap UCL	19.91
95% Chebyshev(Mean, Sd) UCL	26.1
97.5% Chebyshev(Mean, Sd) UCL	31.59
99% Chebyshev(Mean, Sd) UCL	42.38

Assuming Gamma Distribution	
95% Approximate Gamma UCL	19.71
95% Adjusted Gamma UCL	21.12

Potential UCL to Use	Use 95% Approximate Gamma UCL 19.71

CRAB_Manganese

General Statistics

Number of Valid Samples	10	Number of Unique Samples	10

Raw Statistics		Log-transformed Statistics	
Minimum	22.4	Minimum of Log Data	3.109
Maximum	76.8	Maximum of Log Data	4.341
Mean	40.8	Mean of log Data	3.654
Median	39.8	SD of log Data	0.341
SD	15.1		
Coefficient of Variation	0.37		
Skewness	1.508		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.877	Shapiro Wilk Test Statistic	0.969
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	49.55	95% H-UCL	51.51
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	59.99
95% Adjusted-CLT UCL	51.09	97.5% Chebyshev (MVUE) UCL	68.33
95% Modified-t UCL	49.93	99% Chebyshev (MVUE) UCL	84.72

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	6.617	Data appear Normal at 5% Significance Level
Theta Star	6.166	
nu star	132.3	
Approximate Chi Square Value (.05)	106.8	**Nonparametric Statistics**
Adjusted Level of Significance	0.0267	95% CLT UCL 48.65
Adjusted Chi Square Value	102.8	95% Jackknife UCL 49.55
		95% Standard Bootstrap UCL 47.95
Anderson-Darling Test Statistic	0.276	95% Bootstrap-t UCL 52.84
Anderson-Darling 5% Critical Value	0.726	95% Hall's Bootstrap UCL 87.2
Kolmogorov-Smirnov Test Statistic	0.17	95% Percentile Bootstrap UCL 48.41
Kolmogorov-Smirnov 5% Critical Value	0.267	95% BCA Bootstrap UCL 50.28
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 61.61
		97.5% Chebyshev(Mean, Sd) UCL 70.62
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 88.31
95% Approximate Gamma UCL	50.57	
95% Adjusted Gamma UCL	52.54	

Potential UCL to Use		Use 95% Student's-t UCL	49.55

ATTACHMENT C
ProUCL Statistical Software Output
South Branch Creek Fiddler Crab Tissue
LCP Chemicals, Inc. Superfund Site - Linden, New Jersey

CRAB_Mercury

General Statistics

Number of Valid Samples	10	Number of Unique Samples	10

Raw Statistics		**Log-transformed Statistics**	
Minimum	0.345	Minimum of Log Data	-1.064
Maximum	70.2	Maximum of Log Data	4.251
Mean	11.93	Mean of log Data	1.49
Median	3.235	SD of log Data	1.444
SD	21.35		
Coefficient of Variation	1.789		
Skewness	2.752		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.566	Shapiro Wilk Test Statistic	0.954
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	24.31	95% H-UCL	89.65
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	32.91
95% Adjusted-CLT UCL	29.32	97.5% Chebyshev (MVUE) UCL	42.56
95% Modified-t UCL	25.29	99% Chebyshev (MVUE) UCL	61.53

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	0.502	Data appear Gamma Distributed at 5% Significance Level
Theta Star	23.79	
nu star	10.03	
Approximate Chi Square Value (.05)	3.962	
Adjusted Level of Significance	0.0267	
Adjusted Chi Square Value	3.326	
Anderson-Darling Test Statistic	0.757	
Anderson-Darling 5% Critical Value	0.767	
Kolmogorov-Smirnov Test Statistic	0.253	
Kolmogorov-Smirnov 5% Critical Value	0.278	
Data appear Gamma Distributed at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	23.04
95% Jackknife UCL	24.31
95% Standard Bootstrap UCL	22.58
95% Bootstrap-t UCL	95.58
95% Hall's Bootstrap UCL	73.84
95% Percentile Bootstrap UCL	24.33
95% BCA Bootstrap UCL	31.66
95% Chebyshev(Mean, Sd) UCL	41.36
97.5% Chebyshev(Mean, Sd) UCL	54.09
99% Chebyshev(Mean, Sd) UCL	79.11

Assuming Gamma Distribution	
95% Approximate Gamma UCL	30.22
95% Adjusted Gamma UCL	36

Potential UCL to Use	Use 95% Approximate Gamma UCL 30.22

CRAB_Methyl Mercury

General Statistics

Number of Valid Samples	10	Number of Unique Samples	9

Raw Statistics		Log-transformed Statistics	
Minimum	0.19	Minimum of Log Data	-1.661
Maximum	0.54	Maximum of Log Data	-0.616
Mean	0.29	Mean of log Data	-1.28
Median	0.265	SD of log Data	0.293
SD	0.0993		
Coefficient of Variation	0.343		
Skewness	1.994		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.795	Shapiro Wilk Test Statistic	0.906
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.348	95% H-UCL	0.352
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.406
95% Adjusted-CLT UCL	0.363	97.5% Chebyshev (MVUE) UCL	0.457
95% Modified-t UCL	0.351	99% Chebyshev (MVUE) UCL	0.557

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	8.408	Data appear Gamma Distributed at 5% Significance Level
Theta Star	0.0345	
nu star	168.2	
Approximate Chi Square Value (.05)	139.2	
Adjusted Level of Significance	0.0267	
Adjusted Chi Square Value	134.6	
Anderson-Darling Test Statistic	0.555	
Anderson-Darling 5% Critical Value	0.725	
Kolmogorov-Smirnov Test Statistic	0.258	
Kolmogorov-Smirnov 5% Critical Value	0.267	
Data appear Gamma Distributed at 5% Significance Level		

Nonparametric Statistics	
95% CLT UCL	0.342
95% Jackknife UCL	0.348
95% Standard Bootstrap UCL	0.339
95% Bootstrap-t UCL	0.394
95% Hall's Bootstrap UCL	0.576
95% Percentile Bootstrap UCL	0.345
95% BCA Bootstrap UCL	0.366
95% Chebyshev(Mean, Sd) UCL	0.427
97.5% Chebyshev(Mean, Sd) UCL	0.486
99% Chebyshev(Mean, Sd) UCL	0.603

Assuming Gamma Distribution	
95% Approximate Gamma UCL	0.35
95% Adjusted Gamma UCL	0.362

Potential UCL to Use	Use 95% Approximate Gamma UCL 0.35

CRAB_Vanadium

General Statistics

Number of Valid Samples	10	Number of Unique Samples	10

Raw Statistics		**Log-transformed Statistics**	
Minimum	1.81	Minimum of Log Data	0.593
Maximum	3.58	Maximum of Log Data	1.275
Mean	2.547	Mean of log Data	0.919
Median	2.46	SD of log Data	0.187
SD	0.489		
Coefficient of Variation	0.192		
Skewness	0.865		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.95	Shapiro Wilk Test Statistic	0.979
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	2.83	95% H-UCL	2.865
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3.203
95% Adjusted-CLT UCL	2.846	97.5% Chebyshev (MVUE) UCL	3.487
95% Modified-t UCL	2.837	99% Chebyshev (MVUE) UCL	4.045

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	22.23	Data appear Normal at 5% Significance Level
Theta Star	0.115	
nu star	444.6	
Approximate Chi Square Value (.05)	396.7	**Nonparametric Statistics**
Adjusted Level of Significance	0.0267	95% CLT UCL 2.801
Adjusted Chi Square Value	388.9	95% Jackknife UCL 2.83
		95% Standard Bootstrap UCL 2.792
Anderson-Darling Test Statistic	0.225	95% Bootstrap-t UCL 2.897
Anderson-Darling 5% Critical Value	0.724	95% Hall's Bootstrap UCL 3.061
Kolmogorov-Smirnov Test Statistic	0.145	95% Percentile Bootstrap UCL 2.813
Kolmogorov-Smirnov 5% Critical Value	0.266	95% BCA Bootstrap UCL 2.844
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 3.22
		97.5% Chebyshev(Mean, Sd) UCL 3.512
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 4.084
95% Approximate Gamma UCL	2.854	
95% Adjusted Gamma UCL	2.912	

Potential UCL to Use		Use 95% Student's-t UCL	2.83

CRAB_Zinc

General Statistics

Number of Valid Samples	10	Number of Unique Samples	10

Raw Statistics		**Log-transformed Statistics**	
Minimum	77.5	Minimum of Log Data	4.35
Maximum	164	Maximum of Log Data	5.1
Mean	98.84	Mean of log Data	4.559
Median	85.55	SD of log Data	0.262
SD	30.21		
Coefficient of Variation	0.306		
Skewness	1.729		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.692	Shapiro Wilk Test Statistic	0.736
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	116.4	95% H-UCL	117.1
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	134.3
95% Adjusted-CLT UCL	120.1	97.5% Chebyshev (MVUE) UCL	149.8
95% Modified-t UCL	117.2	99% Chebyshev (MVUE) UCL	180.2

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	10.37	Data do not follow a Discernable Distribution (0.05)
Theta Star	9.529	
nu star	207.4	
Approximate Chi Square Value (.05)	175.1	**Nonparametric Statistics**
Adjusted Level of Significance	0.0267	95% CLT UCL 114.6
Adjusted Chi Square Value	169.9	95% Jackknife UCL 116.4
		95% Standard Bootstrap UCL 113.5
Anderson-Darling Test Statistic	1.367	95% Bootstrap-t UCL 174.5
Anderson-Darling 5% Critical Value	0.725	95% Hall's Bootstrap UCL 200.2
Kolmogorov-Smirnov Test Statistic	0.337	95% Percentile Bootstrap UCL 114.6
Kolmogorov-Smirnov 5% Critical Value	0.266	95% BCA Bootstrap UCL 118.8
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 140.5
		97.5% Chebyshev(Mean, Sd) UCL 158.5
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 193.9
95% Approximate Gamma UCL	117.1	
95% Adjusted Gamma UCL	120.6	

Potential UCL to Use	Use 95% Student's-t UCL 116.4
	or 95% Modified-t UCL 117.2

CRAB_Orth-PCB Mammalian TEC

General Statistics

Number of Valid Observations	10	Number of Distinct Observations	10

Raw Statistics		**Log-transformed Statistics**	
Minimum	0.00000097	Minimum of Log Data	-13.84597
Maximum	0.000077	Maximum of Log Data	-9.471705
Mean	2.2927E-05	Mean of log Data	-11.41098
Geometric Mean	1.1073E-05	SD of log Data	1.464693
Median	0.0000145		
SD	2.5232E-05		
Std. Error of Mean	7.979E-06		
Coefficient of Variation	N/A		
Skewness	1.4365628		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.8196489	Shapiro Wilk Test Statistic	0.9326905
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	3.7553E-05	95% H-UCL	0.00024252
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	8.4841E-05
95% Adjusted-CLT UCL (Chen-1995)	3.9924E-05	97.5% Chebyshev (MVUE) UCL	0.00010984
95% Modified-t UCL (Johnson-1978)	3.8158E-05	99% Chebyshev (MVUE) UCL	0.00015893

Gamma Distribution Test		**Data Distribution**
k star (bias corrected)	0.6362336	Data appear Gamma Distributed at 5% Significance Level
Theta Star	3.6036E-05	
MLE of Mean	2.2927E-05	
MLE of Standard Deviation	2.8743E-05	
nu star	12.724671	
Approximate Chi Square Value (.05)	5.7080524	**Nonparametric Statistics**
Adjusted Level of Significance	0.0267	95% CLT UCL 3.6051E-05
Adjusted Chi Square Value	4.9157232	95% Jackknife UCL 3.7553E-05
		95% Standard Bootstrap UCL 3.5471E-05
Anderson-Darling Test Statistic	0.2547273	95% Bootstrap-t UCL 5.2501E-05
Anderson-Darling 5% Critical Value	0.7547544	95% Hall's Bootstrap UCL 0.00011529
Kolmogorov-Smirnov Test Statistic	0.1612215	95% Percentile Bootstrap UCL 0.00003518
Kolmogorov-Smirnov 5% Critical Value	0.2754121	95% BCA Bootstrap UCL 3.9637E-05
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 5.7707E-05
		97.5% Chebyshev(Mean, Sd) UCL 7.2756E-05
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 0.00010232
95% Approximate Gamma UCL (Use when n >= 40)	0.00005111	
95% Adjusted Gamma UCL (Use when n < 40)	5.9348E-05	

Potential UCL to Use		Use 95% Approximate Gamma UCL	0.00005111

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

CRAB_Orth-PCB Avian TEC

General Statistics

Number of Valid Observations	10	Number of Distinct Observations	10

Raw Statistics		**Log-transformed Statistics**	
Minimum	0.000051	Minimum of Log Data	-9.883685
Maximum	0.00024	Maximum of Log Data	-8.334872
Mean	0.0001028	Mean of log Data	-9.329403
Geometric Mean	8.8775E-05	SD of log Data	0.5525677
Median	0.0000805		
SD	6.3036E-05		
Std. Error of Mean	1.9934E-05		
Coefficient of Variation	0.6131886		
Skewness	1.3376431		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.8274282	Shapiro Wilk Test Statistic	0.8898709
Shapiro Wilk Critical Value	0.842	Shapiro Wilk Critical Value	0.842
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	0.00013934	95% H-UCL	0.00015784
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.00018077
95% Adjusted-CLT UCL (Chen-1995)	0.0001446	97.5% Chebyshev (MVUE) UCL	0.000215
95% Modified-t UCL (Johnson-1978)	0.00014075	99% Chebyshev (MVUE) UCL	0.00028222

Gamma Distribution Test		**Data Distribution**
k star (bias corrected)	2.5635056	Data appear Gamma Distributed at 5% Significance Level
Theta Star	4.0101E-05	
MLE of Mean	0.0001028	
MLE of Standard Deviation	6.4206E-05	
nu star	51.270112	
Approximate Chi Square Value (.05)	35.825897	**Nonparametric Statistics**
Adjusted Level of Significance	0.0267	95% CLT UCL 0.00013559
Adjusted Chi Square Value	33.594278	95% Jackknife UCL 0.00013934
		95% Standard Bootstrap UCL 0.00013268
Anderson-Darling Test Statistic	0.5578997	95% Bootstrap-t UCL 0.0001554
Anderson-Darling 5% Critical Value	0.7305983	95% Hall's Bootstrap UCL 0.0001571
Kolmogorov-Smirnov Test Statistic	0.2408551	95% Percentile Bootstrap UCL 0.0001372
Kolmogorov-Smirnov 5% Critical Value	0.2680928	95% BCA Bootstrap UCL 0.0001444
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 0.00018969
		97.5% Chebyshev(Mean, Sd) UCL 0.00022729
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 0.00030114
95% Approximate Gamma UCL (Use when n >= 40)	0.00014712	
95% Adjusted Gamma UCL (Use when n < 40)	0.00015689	

Potential UCL to Use		Use 95% Approximate Gamma UCL	0.00014712

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

FISH_Arsenic

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		Log-transformed Statistics	
Minimum	2.84	Minimum of Log Data	1.044
Maximum	11.5	Maximum of Log Data	2.442
Mean	5.79	Mean of log Data	1.632
Median	5.43	SD of log Data	0.542
SD	3.425		
Coefficient of Variation	0.591		
Skewness	1.531		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.847	Shapiro Wilk Test Statistic	0.942
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	9.055	95% H-UCL	13.66
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	11.74
95% Adjusted-CLT UCL	9.43	97.5% Chebyshev (MVUE) UCL	14.33
95% Modified-t UCL	9.23	99% Chebyshev (MVUE) UCL	19.43

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	1.814	Data appear Normal at 5% Significance Level
Theta Star	3.192	
nu star	18.14	
Approximate Chi Square Value (.05)	9.492	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 8.309
Adjusted Chi Square Value	6.927	95% Jackknife UCL 9.055
		95% Standard Bootstrap UCL 8.125
Anderson-Darling Test Statistic	0.335	95% Bootstrap-t UCL 11.89
Anderson-Darling 5% Critical Value	0.681	95% Hall's Bootstrap UCL 18.81
Kolmogorov-Smirnov Test Statistic	0.243	95% Percentile Bootstrap UCL 8.158
Kolmogorov-Smirnov 5% Critical Value	0.358	95% BCA Bootstrap UCL 8.614
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 12.47
		97.5% Chebyshev(Mean, Sd) UCL 15.35
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 21.03
95% Approximate Gamma UCL	11.07	
95% Adjusted Gamma UCL	15.16	

Potential UCL to Use	Use 95% Student's-t UCL 9.055

FISH_Barium

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		**Log-transformed Statistics**	
Minimum	16.9	Minimum of Log Data	2.827
Maximum	607	Maximum of Log Data	6.409
Mean	179.3	Mean of log Data	4.42
Median	104.9	SD of log Data	1.431
SD	244.8		
Coefficient of Variation	1.365		
Skewness	1.983		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.736	Shapiro Wilk Test Statistic	0.951
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	412.8	95% H-UCL	30199
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	610.2
95% Adjusted-CLT UCL	463.2	97.5% Chebyshev (MVUE) UCL	799.6
95% Modified-t UCL	428.9	99% Chebyshev (MVUE) UCL	1172

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	0.443	Data appear Gamma Distributed at 5% Significance Level
Theta Star	404.7	
nu star	4.432	
Approximate Chi Square Value (.05)	0.899	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 359.4
Adjusted Chi Square Value	0.391	95% Jackknife UCL 412.8
		95% Standard Bootstrap UCL 338.5
Anderson-Darling Test Statistic	0.332	95% Bootstrap-t UCL 868.7
Anderson-Darling 5% Critical Value	0.698	95% Hall's Bootstrap UCL 1226
Kolmogorov-Smirnov Test Statistic	0.224	95% Percentile Bootstrap UCL 372.8
Kolmogorov-Smirnov 5% Critical Value	0.366	95% BCA Bootstrap UCL 406.2
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 656.6
		97.5% Chebyshev(Mean, Sd) UCL 863.1
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 1269
95% Approximate Gamma UCL	883.8	
95% Adjusted Gamma UCL	2032	

Potential UCL to Use		Use 95% Approximate Gamma UCL	883.8

Recommended UCL exceeds the maximum observation

FISH_Chromium

General Statistics

Number of Valid Samples	5	Number of Unique Samples	4

Raw Statistics		**Log-transformed Statistics**	
Minimum	0.7	Minimum of Log Data	-0.357
Maximum	1.5	Maximum of Log Data	0.405
Mean	0.95	Mean of log Data	-0.0964
Median	0.8	SD of log Data	0.326
SD	0.339		
Coefficient of Variation	0.357		
Skewness	1.418		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.825	Shapiro Wilk Test Statistic	0.86
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	1.273	95% H-UCL	1.43
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.546
95% Adjusted-CLT UCL	1.302	97.5% Chebyshev (MVUE) UCL	1.806
95% Modified-t UCL	1.289	99% Chebyshev (MVUE) UCL	2.315

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	4.628	Data appear Normal at 5% Significance Level
Theta Star	0.205	
nu star	46.28	
Approximate Chi Square Value (.05)	31.67	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 1.199
Adjusted Chi Square Value	26.5	95% Jackknife UCL 1.273
		95% Standard Bootstrap UCL 1.171
Anderson-Darling Test Statistic	0.466	95% Bootstrap-t UCL 2.25
Anderson-Darling 5% Critical Value	0.679	95% Hall's Bootstrap UCL 2.459
Kolmogorov-Smirnov Test Statistic	0.277	95% Percentile Bootstrap UCL 1.2
Kolmogorov-Smirnov 5% Critical Value	0.358	95% BCA Bootstrap UCL 1.23
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 1.611
		97.5% Chebyshev(Mean, Sd) UCL 1.897
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 2.459
95% Approximate Gamma UCL	1.388	
95% Adjusted Gamma UCL	1.659	

Potential UCL to Use	Use 95% Student's-t UCL 1.273

FISH_Copper

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		**Log-transformed Statistics**	
Minimum	13.3	Minimum of Log Data	2.588
Maximum	20.5	Maximum of Log Data	3.02
Mean	15.17	Mean of log Data	2.706
Median	13.9	SD of log Data	0.178
SD	3.008		
Coefficient of Variation	0.198		
Skewness	2.132		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.681	Shapiro Wilk Test Statistic	0.708
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	18.04	95% H-UCL	18.44
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	20.42
95% Adjusted-CLT UCL	18.75	97.5% Chebyshev (MVUE) UCL	22.7
95% Modified-t UCL	18.25	99% Chebyshev (MVUE) UCL	27.18

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	14.81	Data do not follow a Discernable Distribution (0.05)
Theta Star	1.024	
nu star	148.1	
Approximate Chi Square Value (.05)	121	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 17.38
Adjusted Chi Square Value	110.3	95% Jackknife UCL 18.04
		95% Standard Bootstrap UCL 17.15
Anderson-Darling Test Statistic	0.88	95% Bootstrap-t UCL 32.93
Anderson-Darling 5% Critical Value	0.678	95% Hall's Bootstrap UCL 30.28
Kolmogorov-Smirnov Test Statistic	0.394	95% Percentile Bootstrap UCL 17.74
Kolmogorov-Smirnov 5% Critical Value	0.357	95% BCA Bootstrap UCL 17.97
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 21.03
		97.5% Chebyshev(Mean, Sd) UCL 23.57
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 28.56
95% Approximate Gamma UCL	18.57	
95% Adjusted Gamma UCL	20.38	

Potential UCL to Use		Use 95% Student's-t UCL	18.04
		or 95% Modified-t UCL	18.25

FISH_Iron

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		**Log-transformed Statistics**	
Minimum	177	Minimum of Log Data	5.176
Maximum	363	Maximum of Log Data	5.894
Mean	255.2	Mean of log Data	5.507
Median	231	SD of log Data	0.294
SD	76.55		
Coefficient of Variation	0.3		
Skewness	0.668		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.934	Shapiro Wilk Test Statistic	0.956
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	328.2	95% H-UCL	365.6
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	400.8
95% Adjusted-CLT UCL	322.4	97.5% Chebyshev (MVUE) UCL	463.9
95% Modified-t UCL	329.9	99% Chebyshev (MVUE) UCL	587.8

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	5.905	Data appear Normal at 5% Significance Level
Theta Star	43.22	
nu star	59.05	
Approximate Chi Square Value (.05)	42.38	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 311.5
Adjusted Chi Square Value	36.3	95% Jackknife UCL 328.2
		95% Standard Bootstrap UCL 304.9
Anderson-Darling Test Statistic	0.263	95% Bootstrap-t UCL 411.3
Anderson-Darling 5% Critical Value	0.679	95% Hall's Bootstrap UCL 809.6
Kolmogorov-Smirnov Test Statistic	0.212	95% Percentile Bootstrap UCL 306.8
Kolmogorov-Smirnov 5% Critical Value	0.357	95% BCA Bootstrap UCL 312.6
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 404.4
		97.5% Chebyshev(Mean, Sd) UCL 469
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 595.8
95% Approximate Gamma UCL	355.6	
95% Adjusted Gamma UCL	415.2	

Potential UCL to Use		Use 95% Student's-t UCL	328.2

FISH_Lead

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		**Log-transformed Statistics**	
Minimum	1.3	Minimum of Log Data	0.262
Maximum	3.495	Maximum of Log Data	1.251
Mean	2.189	Mean of log Data	0.714
Median	1.93	SD of log Data	0.416
SD	0.921		
Coefficient of Variation	0.421		
Skewness	0.699		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.92	Shapiro Wilk Test Statistic	0.944
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	3.067	95% H-UCL	3.9
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	3.948
95% Adjusted-CLT UCL	3.004	97.5% Chebyshev (MVUE) UCL	4.711
95% Modified-t UCL	3.089	99% Chebyshev (MVUE) UCL	6.209

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	3.063	Data appear Normal at 5% Significance Level
Theta Star	0.715	
nu star	30.63	
Approximate Chi Square Value (.05)	18.99	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 2.867
Adjusted Chi Square Value	15.12	95% Jackknife UCL 3.067
		95% Standard Bootstrap UCL 2.793
Anderson-Darling Test Statistic	0.281	95% Bootstrap-t UCL 3.916
Anderson-Darling 5% Critical Value	0.68	95% Hall's Bootstrap UCL 3.247
Kolmogorov-Smirnov Test Statistic	0.211	95% Percentile Bootstrap UCL 2.792
Kolmogorov-Smirnov 5% Critical Value	0.358	95% BCA Bootstrap UCL 2.907
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 3.985
		97.5% Chebyshev(Mean, Sd) UCL 4.762
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 6.288
95% Approximate Gamma UCL	3.531	
95% Adjusted Gamma UCL	4.434	

Potential UCL to Use		Use 95% Student's-t UCL	3.067

FISH_Manganese

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		Log-transformed Statistics	
Minimum	20.05	Minimum of Log Data	2.998
Maximum	27.4	Maximum of Log Data	3.311
Mean	23.81	Mean of log Data	3.162
Median	25	SD of log Data	0.14
SD	3.259		
Coefficient of Variation	0.137		
Skewness	-0.315		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.887	Shapiro Wilk Test Statistic	0.877
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	26.92	95% H-UCL	27.62
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	30.29
95% Adjusted-CLT UCL	25.99	97.5% Chebyshev (MVUE) UCL	33.09
95% Modified-t UCL	26.88	99% Chebyshev (MVUE) UCL	38.6

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	26.17	Data appear Normal at 5% Significance Level
Theta Star	0.91	
nu star	261.7	
Approximate Chi Square Value (.05)	225.3	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 26.21
Adjusted Chi Square Value	210.3	95% Jackknife UCL 26.92
		95% Standard Bootstrap UCL 25.95
Anderson-Darling Test Statistic	0.436	95% Bootstrap-t UCL 26.86
Anderson-Darling 5% Critical Value	0.678	95% Hall's Bootstrap UCL 25.15
Kolmogorov-Smirnov Test Statistic	0.269	95% Percentile Bootstrap UCL 26.02
Kolmogorov-Smirnov 5% Critical Value	0.357	95% BCA Bootstrap UCL 25.84
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 30.16
		97.5% Chebyshev(Mean, Sd) UCL 32.91
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 38.31
95% Approximate Gamma UCL	27.66	
95% Adjusted Gamma UCL	29.63	

Potential UCL to Use	Use 95% Student's-t UCL 26.92

FISH_Mercury

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		Log-transformed Statistics	
Minimum	0.356	Minimum of Log Data	-1.033
Maximum	7.68	Maximum of Log Data	2.039
Mean	2.568	Mean of log Data	0.363
Median	1.98	SD of log Data	1.252
SD	2.99		
Coefficient of Variation	1.164		
Skewness	1.769		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.79	Shapiro Wilk Test Statistic	0.934
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	5.419	95% H-UCL	135.8
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	8.353
95% Adjusted-CLT UCL	5.898	97.5% Chebyshev (MVUE) UCL	10.86
95% Modified-t UCL	5.595	99% Chebyshev (MVUE) UCL	15.8

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	0.532	Data appear Normal at 5% Significance Level
Theta Star	4.83	
nu star	5.317	
Approximate Chi Square Value (.05)	1.302	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 4.768
Adjusted Chi Square Value	0.624	95% Jackknife UCL 5.419
		95% Standard Bootstrap UCL 4.481
Anderson-Darling Test Statistic	0.326	95% Bootstrap-t UCL 8.695
Anderson-Darling 5% Critical Value	0.691	95% Hall's Bootstrap UCL 14.11
Kolmogorov-Smirnov Test Statistic	0.227	95% Percentile Bootstrap UCL 4.776
Kolmogorov-Smirnov 5% Critical Value	0.364	95% BCA Bootstrap UCL 5.4
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 8.397
		97.5% Chebyshev(Mean, Sd) UCL 10.92
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 15.87
95% Approximate Gamma UCL	10.49	
95% Adjusted Gamma UCL	21.89	

Potential UCL to Use	Use 95% Student's-t UCL 5.419

FISH_Methyl Mercury

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		Log-transformed Statistics	
Minimum	0.38	Minimum of Log Data	-0.968
Maximum	1.32	Maximum of Log Data	0.278
Mean	0.678	Mean of log Data	-0.5
Median	0.59	SD of log Data	0.511
SD	0.385		
Coefficient of Variation	0.568		
Skewness	1.561		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.831	Shapiro Wilk Test Statistic	0.905
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.045	95% H-UCL	1.48
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.335
95% Adjusted-CLT UCL	1.09	97.5% Chebyshev (MVUE) UCL	1.621
95% Modified-t UCL	1.065	99% Chebyshev (MVUE) UCL	2.185

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	1.987	Data appear Normal at 5% Significance Level
Theta Star	0.341	
nu star	19.87	
Approximate Chi Square Value (.05)	10.76	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 0.961
Adjusted Chi Square Value	7.992	95% Jackknife UCL 1.045
		95% Standard Bootstrap UCL 0.925
Anderson-Darling Test Statistic	0.379	95% Bootstrap-t UCL 1.398
Anderson-Darling 5% Critical Value	0.681	95% Hall's Bootstrap UCL 2.161
Kolmogorov-Smirnov Test Statistic	0.223	95% Percentile Bootstrap UCL 0.946
Kolmogorov-Smirnov 5% Critical Value	0.358	95% BCA Bootstrap UCL 1.028
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 1.428
		97.5% Chebyshev(Mean, Sd) UCL 1.753
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 2.391
95% Approximate Gamma UCL	1.252	
95% Adjusted Gamma UCL	1.686	

Potential UCL to Use	Use 95% Student's-t UCL 1.045

FISH_Vanadium

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		Log-transformed Statistics	
Minimum	0.7	Minimum of Log Data	-0.357
Maximum	1.09	Maximum of Log Data	0.0862
Mean	0.902	Mean of log Data	-0.116
Median	0.88	SD of log Data	0.183
SD	0.163		
Coefficient of Variation	0.181		
Skewness	-0.00401		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.948	Shapiro Wilk Test Statistic	0.951
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	1.057	95% H-UCL	1.104
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.224
95% Adjusted-CLT UCL	1.022	97.5% Chebyshev (MVUE) UCL	1.364
95% Modified-t UCL	1.057	99% Chebyshev (MVUE) UCL	1.637

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	15.23	Data appear Normal at 5% Significance Level
Theta Star	0.0592	
nu star	152.3	
Approximate Chi Square Value (.05)	124.7	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 1.022
Adjusted Chi Square Value	113.8	95% Jackknife UCL 1.057
		95% Standard Bootstrap UCL 1.009
Anderson-Darling Test Statistic	0.256	95% Bootstrap-t UCL 1.101
Anderson-Darling 5% Critical Value	0.678	95% Hall's Bootstrap UCL 1.11
Kolmogorov-Smirnov Test Statistic	0.229	95% Percentile Bootstrap UCL 1.012
Kolmogorov-Smirnov 5% Critical Value	0.357	95% BCA Bootstrap UCL 1.018
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 1.219
		97.5% Chebyshev(Mean, Sd) UCL 1.357
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 1.627
95% Approximate Gamma UCL	1.101	
95% Adjusted Gamma UCL	1.207	

Potential UCL to Use		Use 95% Student's-t UCL 1.057

FISH_Zinc

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		**Log-transformed Statistics**	
Minimum	154.5	Minimum of Log Data	5.04
Maximum	176	Maximum of Log Data	5.17
Mean	167.1	Mean of log Data	5.117
Median	170	SD of log Data	0.0573
SD	9.476		
Coefficient of Variation	0.0567		
Skewness	-0.556		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.893	Shapiro Wilk Test Statistic	0.891
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	176.1	95% H-UCL	N/A
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	185.8
95% Adjusted-CLT UCL	172.9	97.5% Chebyshev (MVUE) UCL	193.9
95% Modified-t UCL	176	99% Chebyshev (MVUE) UCL	209.7

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	153.4	Data appear Normal at 5% Significance Level
Theta Star	1.089	
nu star	1534	
Approximate Chi Square Value (.05)	1444	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 174.1
Adjusted Chi Square Value	1406	95% Jackknife UCL 176.1
		95% Standard Bootstrap UCL 173.3
Anderson-Darling Test Statistic	0.388	95% Bootstrap-t UCL 174.4
Anderson-Darling 5% Critical Value	0.678	95% Hall's Bootstrap UCL 172.1
Kolmogorov-Smirnov Test Statistic	0.239	95% Percentile Bootstrap UCL 173.2
Kolmogorov-Smirnov 5% Critical Value	0.357	95% BCA Bootstrap UCL 172.2
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 185.6
		97.5% Chebyshev(Mean, Sd) UCL 193.6
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 209.3
95% Approximate Gamma UCL	177.5	
95% Adjusted Gamma UCL	182.4	

Potential UCL to Use	Use 95% Student's-t UCL 176.1

Recommended UCL exceeds the maximum observation

FISH_OrthoPCB_Fish TEC

General Statistics

Number of Valid Observations	5	Number of Distinct Observations	5

Raw Statistics		Log-transformed Statistics	
Minimum	1.5022E-07	Minimum of Log Data	-15.71116
Maximum	1.3223E-06	Maximum of Log Data	-13.53614
Mean	5.6666E-07	Mean of log Data	-14.61622
Geometric Mean	4.4901E-07	SD of log Data	0.7740451
Median	4.4498E-07		
SD	4.442E-07		
Std. Error of Mean	1.9865E-07		
Coefficient of Variation	N/A		
Skewness	1.6771132		

Warning: A sample size of 'n' = 5 may not adequate enough to compute meaningful and reliable test statistics and estimates!

It is suggested to collect at least 8 to 10 observations using these statistical methods!
If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.

Warning: There are only 5 Values in this data
Note: It should be noted that even though bootstrap methods may be performed on this data set,
the resulting calculations may not be reliable enough to draw conclusions

The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.8235488	Shapiro Wilk Test Statistic	0.9455434
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	9.9016E-07	95% H-UCL	2.8006E-06
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	1.399E-06
95% Adjusted-CLT UCL (Chen-1995)	1.0526E-06	97.5% Chebyshev (MVUE) UCL	1.7596E-06
95% Modified-t UCL (Johnson-1978)	1.015E-06	99% Chebyshev (MVUE) UCL	2.468E-06

Gamma Distribution Test		Data Distribution
k star (bias corrected)	1.0539164	Data appear Normal at 5% Significance Level
Theta Star	5.3767E-07	
MLE of Mean	5.6666E-07	
MLE of Standard Deviation	5.5198E-07	
nu star	10.539164	
Approximate Chi Square Value (.05)	4.2814911	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 8.9342E-07
Adjusted Chi Square Value	2.7251791	95% Jackknife UCL 9.9016E-07
		95% Standard Bootstrap UCL 8.5486E-07
Anderson-Darling Test Statistic	0.3572723	95% Bootstrap-t UCL 1.5136E-06
Anderson-Darling 5% Critical Value	0.6839013	95% Hall's Bootstrap UCL 2.5816E-06
Kolmogorov-Smirnov Test Statistic	0.2686587	95% Percentile Bootstrap UCL 9.1242E-07
Kolmogorov-Smirnov 5% Critical Value	0.3601535	95% BCA Bootstrap UCL 9.6266E-07
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 1.4326E-06
		97.5% Chebyshev(Mean, Sd) UCL 1.8072E-06
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 2.5432E-06
95% Approximate Gamma UCL (Use when n >= 40)	1.3949E-06	
95% Adjusted Gamma UCL (Use when n < 40)	2.1915E-06	

Potential UCL to Use	Use 95% Student's-t UCL 9.9016E-07

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

FISH_OrthoPCB_Mammalian TEC

General Statistics

Number of Valid Observations	5	Number of Distinct Observations	5

Raw Statistics		Log-transformed Statistics	
Minimum	9.5028E-07	Minimum of Log Data	-13.86651
Maximum	6.3202E-05	Maximum of Log Data	-9.669175
Mean	1.7267E-05	Mean of log Data	-12.00089
Geometric Mean	6.1388E-06	SD of log Data	1.6506169
Median	3.2536E-06		
SD	2.6383E-05		
Std. Error of Mean	1.1799E-05		
Coefficient of Variation	N/A		
Skewness	1.9687271		

Warning: A sample size of 'n' = 5 may not adequate enough to compute meaningful and reliable test statistics and estimates!

It is suggested to collect at least 8 to 10 observations using these statistical methods!
If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.

Warning: There are only 5 Values in this data
Note: It should be noted that even though bootstrap methods may be performed on this data set,
the resulting calculations may not be reliable enough to draw conclusions

The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.7146894	Shapiro Wilk Test Statistic	0.9491688
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	4.2421E-05	95% H-UCL	0.0149709
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	6.0304E-05
95% Adjusted-CLT UCL (Chen-1995)	4.7775E-05	97.5% Chebyshev (MVUE) UCL	7.9582E-05
95% Modified-t UCL (Johnson-1978)	4.4152E-05	99% Chebyshev (MVUE) UCL	0.00011745

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.372448	Data appear Gamma Distributed at 5% Significance Level
Theta Star	4.6361E-05	
MLE of Mean	1.7267E-05	
MLE of Standard Deviation	2.8293E-05	
nu star	3.7244796	
Approximate Chi Square Value (.05)	0.615966	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 3.6675E-05
Adjusted Chi Square Value	0.2451191	95% Jackknife UCL 4.2421E-05
		95% Standard Bootstrap UCL 3.4341E-05
Anderson-Darling Test Statistic	0.4012986	95% Bootstrap-t UCL 0.00038033
Anderson-Darling 5% Critical Value	0.7059885	95% Hall's Bootstrap UCL 0.00024996
Kolmogorov-Smirnov Test Statistic	0.3088758	95% Percentile Bootstrap UCL 3.8663E-05
Kolmogorov-Smirnov 5% Critical Value	0.3696838	95% BCA Bootstrap UCL 4.1707E-05
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 6.8698E-05
		97.5% Chebyshev(Mean, Sd) UCL 9.0952E-05
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 0.00013467
95% Approximate Gamma UCL (Use when n >= 40)	0.00010441	
95% Adjusted Gamma UCL (Use when n < 40)	0.00026236	

Potential UCL to Use	Use 95% Approximate Gamma UCL 0.00010441

Recommended UCL exceeds the maximum observation

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

FISH_OrthoPCB_Avian TEC

General Statistics

Number of Valid Observations	5	Number of Distinct Observations	5

Raw Statistics		Log-transformed Statistics	
Minimum	0.00001119	Minimum of Log Data	-11.40049
Maximum	0.00020101	Maximum of Log Data	-8.512156
Mean	6.2269E-05	Mean of log Data	-10.18842
Geometric Mean	3.7603E-05	SD of log Data	1.0611895
Median	3.1849E-05		
SD	7.8402E-05		
Std. Error of Mean	3.5062E-05		
Coefficient of Variation	N/A		
Skewness	2.1166791		

Warning: A sample size of 'n' = 5 may not adequate enough to compute meaningful and reliable test statistics and estimates!

It is suggested to collect at least 8 to 10 observations using these statistical methods!
If possible compute and collect Data Quality Objectives (DQO) based sample size and analytical results.

Warning: There are only 5 Values in this data
Note: It should be noted that even though bootstrap methods may be performed on this data set,
the resulting calculations may not be reliable enough to draw conclusions

The literature suggests to use bootstrap methods on data sets having more than 10-15 observations.

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.6930845	Shapiro Wilk Test Statistic	0.9359485
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.00013702	95% H-UCL	0.0010256
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0001702
95% Adjusted-CLT UCL (Chen-1995)	0.00015541	97.5% Chebyshev (MVUE) UCL	0.00021905
95% Modified-t UCL (Johnson-1978)	0.00014255	99% Chebyshev (MVUE) UCL	0.00031502

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.5848669	Data appear Gamma Distributed at 5% Significance Level
Theta Star	0.00010647	
MLE of Mean	6.2269E-05	
MLE of Standard Deviation	8.1422E-05	
nu star	5.8486693	
Approximate Chi Square Value (.05)	1.5630253	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 0.00011994
Adjusted Chi Square Value	0.7864983	95% Jackknife UCL 0.00013702
		95% Standard Bootstrap UCL 0.00011414
Anderson-Darling Test Statistic	0.4937302	95% Bootstrap-t UCL 0.00041045
Anderson-Darling 5% Critical Value	0.6900645	95% Hall's Bootstrap UCL 0.00045585
Kolmogorov-Smirnov Test Statistic	0.3203164	95% Percentile Bootstrap UCL 0.00012921
Kolmogorov-Smirnov 5% Critical Value	0.363704	95% BCA Bootstrap UCL 0.00013406
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 0.0002151
		97.5% Chebyshev(Mean, Sd) UCL 0.00028123
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 0.00041113
95% Approximate Gamma UCL (Use when n >= 40)	0.000233	
95% Adjusted Gamma UCL (Use when n < 40)	0.00046305	

Potential UCL to Use	Use 95% Approximate Gamma UCL 0.000233

Recommended UCL exceeds the maximum observation

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

SW_Arsenic

General Statistics

Number of Valid Samples	5	Number of Detected Data	4
Number of Unique Samples	4	Number of Non-Detect Data	1
		Percent Non-Detects	20.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	3.2	Minimum Detected	1.163
Maximum Detected	150	Maximum Detected	5.011
Mean of Detected	50.68	Mean of Detected	3.022
SD of Detected	68.18	SD of Detected	1.684
Minimum Non-Detect	2	Minimum Non-Detect	0.693
Maximum Non-Detect	2	Maximum Non-Detect	0.693

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.807	Shapiro Wilk Test Statistic	0.983
5% Shapiro Wilk Critical Value	0.748	5% Shapiro Wilk Critical Value	0.748
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	40.74	Mean	2.418
SD	63.09	SD	1.989
95% DL/2 (t) UCL	100.9	95% H-Stat (DL/2) UCL	46550
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	32.3	Mean in Log Scale	2.111
SD	66.19	SD in Log Scale	2.506
95% MLE (t) UCL	95.41	Mean in Original Scale	40.58
95% MLE (Tiku) UCL	94.89	SD in Original Scale	63.21
		95% Percentile Bootstrap UCL	90.68
		95% BCA Bootstrap UCL	99.9

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	0.335	Data appear Normal at 5% Significance Level
Theta Star	151.3	
nu star	2.679	
A-D Test Statistic	0.261	**Nonparametric Statistics**
5% A-D Critical Value	0.674	Kaplan-Meier (KM) Method
K-S Test Statistic	0.674	Mean 41.18
5% K-S Critical Value	0.407	SD 56.13
Data appear Gamma Distributed at 5% Significance Level		SE of Mean 28.98
		95% KM (t) UCL 103
Assuming Gamma Distribution		95% KM (z) UCL 88.85
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL 100.7
Minimum	0	95% KM (bootstrap t) UCL 160.5
Maximum	150	95% KM (BCA) UCL 92.48
Mean	40.54	95% KM (percentile) UCL 92.48
Median	9.2	95% KM (Chebyshev) UCL 167.5
SD	63.25	97.5% KM (Chebyshev) UCL 222.2
k star	0.19	99% KM (Chebyshev) UCL 329.6
Theta star	212.9	
Nu star	1.904	Potential UCLs to Use
AppChi2	0.139	95% KM (t) UCL 103
95% Gamma Approximate UCL	554.5	95% KM (Percentile Bootstrap) UCL 92.48
95% Adjusted Gamma UCL	N/A	

SW_Barium

General Statistics

Number of Valid Samples	5	Number of Detected Data	4
Number of Unique Samples	4	Number of Non-Detect Data	1
		Percent Non-Detects	20.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	200	Minimum Detected	5.298
Maximum Detected	592.5	Maximum Detected	6.384
Mean of Detected	380.1	Mean of Detected	5.858
SD of Detected	172.5	SD of Detected	0.475
Minimum Non-Detect	200	Minimum Non-Detect	5.298
Maximum Non-Detect	200	Maximum Non-Detect	5.298

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.974	Shapiro Wilk Test Statistic	0.983
5% Shapiro Wilk Critical Value	0.748	5% Shapiro Wilk Critical Value	0.748
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	324.1	Mean	5.608
SD	195	SD	0.695
95% DL/2 (t) UCL	510	95% H-Stat (DL/2) UCL	430.7
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	322.6	Mean in Log Scale	5.602
SD	180.8	SD in Log Scale	0.705
95% MLE (t) UCL	495	Mean in Original Scale	323.6
95% MLE (Tiku) UCL	497.3	SD in Original Scale	195.8
		95% Percentile Bootstrap UCL	452.6
		95% BCA Bootstrap UCL	452.6

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	1.73	Data appear Normal at 5% Significance Level
Theta Star	219.8	
nu star	13.84	
A-D Test Statistic	0.219	Nonparametric Statistics
5% A-D Critical Value	0.659	Kaplan-Meier (KM) Method
K-S Test Statistic	0.659	Mean 344.1
5% K-S Critical Value	0.396	SD 151.8
Data appear Gamma Distributed at 5% Significance Level		SE of Mean 78.41
		95% KM (t) UCL 511.3
Assuming Gamma Distribution		95% KM (z) UCL 473.1
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL 509.2
Minimum	164.9	95% KM (bootstrap t) UCL 502.1
Maximum	592.5	95% KM (BCA) UCL 500.4
Mean	337.1	95% KM (percentile) UCL 500.4
Median	289	95% KM (Chebyshev) UCL 685.9
SD	177.8	97.5% KM (Chebyshev) UCL 833.8
k star	1.974	99% KM (Chebyshev) UCL 1124
Theta star	170.7	
Nu star	19.74	Potential UCLs to Use
AppChi2	10.66	95% KM (t) UCL 511.3
95% Gamma Approximate UCL	624.2	95% KM (Percentile Bootstrap) UCL 500.4
95% Adjusted Gamma UCL	N/A	

SW_Iron

General Statistics

Number of Valid Samples	5	Number of Detected Data	4
Number of Unique Samples	4	Number of Non-Detect Data	1
		Percent Non-Detects	20.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	105	Minimum Detected	4.654
Maximum Detected	3920	Maximum Detected	8.274
Mean of Detected	1583	Mean of Detected	6.581
SD of Detected	1767	SD of Detected	1.652
Minimum Non-Detect	100	Minimum Non-Detect	4.605
Maximum Non-Detect	100	Maximum Non-Detect	4.605

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.896	Shapiro Wilk Test Statistic	0.948
5% Shapiro Wilk Critical Value	0.748	5% Shapiro Wilk Critical Value	0.748
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1277	Mean	6.047
SD	1677	SD	1.863
95% DL/2 (t) UCL	2875	95% H-Stat (DL/2) UCL	236693
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	1065	Mean in Log Scale	5.705
SD	1763	SD in Log Scale	2.426
95% MLE (t) UCL	2746	Mean in Original Scale	1268
95% MLE (Tiku) UCL	2746	SD in Original Scale	1684
		95% Percentile Bootstrap UCL	2420
		95% BCA Bootstrap UCL	2749

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	0.357	Data appear Normal at 5% Significance Level
Theta Star	4439	
nu star	2.854	
A-D Test Statistic	0.278	**Nonparametric Statistics**
5% A-D Critical Value	0.67	Kaplan-Meier (KM) Method
K-S Test Statistic	0.67	Mean 1288
5% K-S Critical Value	0.405	SD 1491
Data appear Gamma Distributed at 5% Significance Level		SE of Mean 769.8
		95% KM (t) UCL 2929
Assuming Gamma Distribution		95% KM (z) UCL 2554
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL 2872
Minimum	105	95% KM (bootstrap t) UCL 2899
Maximum	3920	95% KM (BCA) UCL 2753
Mean	1298	95% KM (percentile) UCL 2753
Median	333	95% KM (Chebyshev) UCL 4643
SD	1657	97.5% KM (Chebyshev) UCL 6095
k star	0.406	99% KM (Chebyshev) UCL 8947
Theta star	3200	
Nu star	4.058	Potential UCLs to Use
AppChi2	0.745	95% KM (t) UCL 2929
95% Gamma Approximate UCL	7075	95% KM (Percentile Bootstrap) UCL 2753
95% Adjusted Gamma UCL	N/A	

SW_Lead

General Statistics

Number of Valid Samples	5	Number of Detected Data	2
Number of Unique Samples	2	Number of Non-Detect Data	3
		Percent Non-Detects	60.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	17.95	Minimum Detected	2.888
Maximum Detected	20.1	Maximum Detected	3.001
Mean of Detected	19.03	Mean of Detected	2.944
SD of Detected	1.52	SD of Detected	0.08
Minimum Non-Detect	3	Minimum Non-Detect	1.099
Maximum Non-Detect	3	Maximum Non-Detect	1.099

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	1	Shapiro Wilk Test Statistic	1
5% Shapiro Wilk Critical Value	N/A	5% Shapiro Wilk Critical Value	N/A
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	8.51	Mean	1.421
SD	9.629	SD	1.391
95% DL/2 (t) UCL	17.69	95% H-Stat (DL/2) UCL	30.26
Maximum Likelihood Estimate(MLE) Method	N/A	Robust ROS Method	
		Mean in Log Scale	2.745
		SD in Log Scale	0.2
		Mean in Original Scale	15.82
		SD in Original Scale	3.187
		95% Percentile Bootstrap UCL	17.97
		95% BCA Bootstrap UCL	18.24

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only	
k star (bias corrected)	N/A	Data do not follow a Discernable Distribution (0.05)	
Theta Star	N/A		
nu star	N/A		
A-D Test Statistic	0.359	Nonparametric Statistics	
5% A-D Critical Value	N/A	Kaplan-Meier (KM) Method	
K-S Test Statistic	N/A	Mean	18.38
5% K-S Critical Value	N/A	SD	0.86
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.544
		95% KM (t) UCL	19.54
Assuming Gamma Distribution		95% KM (z) UCL	19.27
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	20.2
Minimum	N/A	95% KM (bootstrap t) UCL	#NUM!
Maximum	N/A	95% KM (BCA) UCL	20.1
Mean	N/A	95% KM (percentile) UCL	20.1
Median	N/A	95% KM (Chebyshev) UCL	20.75
SD	N/A	97.5% KM (Chebyshev) UCL	21.78
k star	N/A	99% KM (Chebyshev) UCL	23.79
Theta star	N/A		
Nu star	N/A	Potential UCLs to Use	
AppChi2	N/A	95% KM (t) UCL	19.54
95% Gamma Approximate UCL	N/A	95% KM (% Bootstrap) UCL	20.1
95% Adjusted Gamma UCL	N/A		

SW_Manganese

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		**Log-transformed Statistics**	
Minimum	51.6	Minimum of Log Data	3.944
Maximum	230	Maximum of Log Data	5.438
Mean	113.2	Mean of log Data	4.575
Median	83.1	SD of log Data	0.608
SD	73.26		
Coefficient of Variation	0.647		
Skewness	1.298		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.87	Shapiro Wilk Test Statistic	0.946
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	183	95% H-UCL	319.4
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	242.9
95% Adjusted-CLT UCL	187.4	97.5% Chebyshev (MVUE) UCL	299.6
95% Modified-t UCL	186.2	99% Chebyshev (MVUE) UCL	410.8

Gamma Distribution Test		**Nonparametric Test**	
k star (bias corrected)	1.494	Data appear Normal at 5% Significance Level	
Theta Star	75.72		
nu star	14.94		
Approximate Chi Square Value (.05)	7.223	**Nonparametric Statistics**	
Adjusted Level of Significance	0.0086	95% CLT UCL	167
Adjusted Chi Square Value	5.053	95% Jackknife UCL	183
		95% Standard Bootstrap UCL	160.5
Anderson-Darling Test Statistic	0.308	95% Bootstrap-t UCL	347.4
Anderson-Darling 5% Critical Value	0.682	95% Hall's Bootstrap UCL	494.9
Kolmogorov-Smirnov Test Statistic	0.239	95% Percentile Bootstrap UCL	163.8
Kolmogorov-Smirnov 5% Critical Value	0.359	95% BCA Bootstrap UCL	178.2
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	256
		97.5% Chebyshev(Mean, Sd) UCL	317.8
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	439.1
95% Approximate Gamma UCL	234.1		
95% Adjusted Gamma UCL	334.7		

Potential UCL to Use		Use 95% Student's-t UCL	183

SW_Mercury

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		Log-transformed Statistics	
Minimum	1.3	Minimum of Log Data	0.262
Maximum	10.9	Maximum of Log Data	2.389
Mean	4.3	Mean of log Data	1.104
Median	1.9	SD of log Data	0.922
SD	4.119		
Coefficient of Variation	0.958		
Skewness	1.374		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.806	Shapiro Wilk Test Statistic	0.874
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	8.227	95% H-UCL	38
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	11.4
95% Adjusted-CLT UCL	8.539	97.5% Chebyshev (MVUE) UCL	14.53
95% Modified-t UCL	8.415	99% Chebyshev (MVUE) UCL	20.67

Gamma Distribution Test		Nonparametric Test
k star (bias corrected)	0.756	Data appear Normal at 5% Significance Level
Theta Star	5.689	
nu star	7.559	
Approximate Chi Square Value (.05)	2.482	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 7.33
Adjusted Chi Square Value	1.403	95% Jackknife UCL 8.227
		95% Standard Bootstrap UCL 7.04
Anderson-Darling Test Statistic	0.488	95% Bootstrap-t UCL 47.59
Anderson-Darling 5% Critical Value	0.686	95% Hall's Bootstrap UCL 39.54
Kolmogorov-Smirnov Test Statistic	0.33	95% Percentile Bootstrap UCL 7.12
Kolmogorov-Smirnov 5% Critical Value	0.362	95% BCA Bootstrap UCL 7.96
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 12.33
		97.5% Chebyshev(Mean, Sd) UCL 15.8
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 22.63
95% Approximate Gamma UCL	13.09	
95% Adjusted Gamma UCL	23.17	

Potential UCL to Use	Use 95% Student's-t UCL 8.227

SW_Methyl Mercury (10/5/06)

General Statistics

Number of Valid Samples	5	Number of Unique Samples	5

Raw Statistics		**Log-transformed Statistics**	
Minimum	0.000657	Minimum of Log Data	-7.328
Maximum	0.0195	Maximum of Log Data	-3.937
Mean	0.00547	Mean of log Data	-6.051
Median	0.00109	SD of log Data	1.413
SD	0.00805		
Coefficient of Variation	1.471		
Skewness	1.979		

Relevant UCL Statistics

Normal Distribution Test		**Lognormal Distribution Test**	
Shapiro Wilk Test Statistic	0.704	Shapiro Wilk Test Statistic	0.873
Shapiro Wilk Critical Value	0.762	Shapiro Wilk Critical Value	0.762
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% Student's-t UCL	0.0131	95% H-UCL	0.74
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.0169
95% Adjusted-CLT UCL	0.0148	97.5% Chebyshev (MVUE) UCL	0.0221
95% Modified-t UCL	0.0137	99% Chebyshev (MVUE) UCL	0.0324

Gamma Distribution Test		**Nonparametric Test**
k star (bias corrected)	0.419	Data appear Gamma Distributed at 5% Significance Level
Theta Star	0.013	
nu star	4.193	
Approximate Chi Square Value (.05)	0.8	**Nonparametric Statistics**
Adjusted Level of Significance	0.0086	95% CLT UCL 0.0114
Adjusted Chi Square Value	0.338	95% Jackknife UCL 0.0131
		95% Standard Bootstrap UCL 0.0109
Anderson-Darling Test Statistic	0.547	95% Bootstrap-t UCL 0.189
Anderson-Darling 5% Critical Value	0.7	95% Hall's Bootstrap UCL 0.109
Kolmogorov-Smirnov Test Statistic	0.344	95% Percentile Bootstrap UCL 0.012
Kolmogorov-Smirnov 5% Critical Value	0.367	95% BCA Bootstrap UCL 0.0129
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL 0.0212
		97.5% Chebyshev(Mean, Sd) UCL 0.028
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL 0.0413
95% Approximate Gamma UCL	0.0287	
95% Adjusted Gamma UCL	0.068	

Potential UCL to Use	Use 95% Approximate Gamma UCL 0.0287

Recommended UCL exceeds the maximum observation

SW_Zinc

General Statistics

Number of Valid Samples	5	Number of Detected Data	3
Number of Unique Samples	3	Number of Non-Detect Data	2
		Percent Non-Detects	40.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	31.7	Minimum Detected	3.456
Maximum Detected	89.05	Maximum Detected	4.489
Mean of Detected	54.08	Mean of Detected	3.89
SD of Detected	30.68	SD of Detected	0.536
Minimum Non-Detect	20	Minimum Non-Detect	2.996
Maximum Non-Detect	20	Maximum Non-Detect	2.996

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.874	Shapiro Wilk Test Statistic	0.929
5% Shapiro Wilk Critical Value	0.767	5% Shapiro Wilk Critical Value	0.767
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	36.45	Mean	3.255
SD	32.46	SD	0.949
95% DL/2 (t) UCL	67.39	95% H-Stat (DL/2) UCL	43.71
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	29.52	Mean in Log Scale	3.233
SD	38.27	SD in Log Scale	0.997
95% MLE (t) UCL	66.01	Mean in Original Scale	36.38
95% MLE (Tiku) UCL	70.67	SD in Original Scale	32.58
		95% Percentile Bootstrap UCL	61.2
		95% BCA Bootstrap UCL	63.16

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	N/A	Data appear Normal at 5% Significance Level
Theta Star	N/A	
nu star	N/A	
A-D Test Statistic	0.373	
5% A-D Critical Value	N/A	
K-S Test Statistic	N/A	
5% K-S Critical Value	N/A	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	N/A	Mean	45.13
Maximum	N/A	SD	22.29
Mean	N/A	SE of Mean	12.21
Median	N/A	95% KM (t) UCL	71.15
SD	N/A	95% KM (z) UCL	65.21
k star	N/A	95% KM (jackknife) UCL	68.66
Theta star	N/A	95% KM (bootstrap t) UCL	114.3
Nu star	N/A	95% KM (BCA) UCL	89.05
AppChi2	N/A	95% KM (percentile) UCL	89.05
95% Gamma Approximate UCL	N/A	95% KM (Chebyshev) UCL	98.34
95% Adjusted Gamma UCL	N/A	97.5% KM (Chebyshev) UCL	121.4
		99% KM (Chebyshev) UCL	166.6
		Potential UCLs to Use	
		95% KM (t) UCL	71.15
		95% KM (Percentile Bootstrap) UCL	89.05

Antimony

General Statistics

Number of Valid Samples	194	Number of Detected Data	36
Number of Unique Samples	33	Number of Non-Detect Data	158
		Percent Non-Detects	81.44%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	1.2	Minimum Detected	0.182
Maximum Detected	202	Maximum Detected	5.308
Mean of Detected	24.89	Mean of Detected	1.992
SD of Detected	47.45	SD of Detected	1.483
Minimum Non-Detect	1	Minimum Non-Detect	0
Maximum Non-Detect	5.7	Maximum Non-Detect	1.74

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	179
Number treated as Detected	15
Single DL Non-Detect Percentage	92.27%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.547	Lilliefors Test Statistic	0.889
5% Lilliefors Critical Value	0.935	5% Lilliefors Critical Value	0.935
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	5.264	Mean	0.0845
SD	22.29	SD	1.175
95% DL/2 (t) UCL	7.908	95% H-Stat (DL/2) UCL	2.636
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	-169	Mean in Log Scale	-2.662
SD	121.9	SD in Log Scale	3.059
95% MLE (t) UCL	-154.6	Mean in Original Scale	4.716
95% MLE (Tiku) UCL	-94	SD in Original Scale	22.39
		95% Percentile Bootstrap UCL	7.501
		95% BCA Bootstrap UCL	8.614

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only	
k star (bias corrected)	0.492	Data do not follow a Discernable Distribution (0.05)	
Theta Star	50.57		
nu star	35.44		
A-D Test Statistic	2.87	**Nonparametric Statistics**	
5% A-D Critical Value	0.811	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.811	Mean	5.609
5% K-S Critical Value	0.155	SD	22.16
Data not Gamma Distributed at 5% Significance Level		SE of Mean	1.613
		95% KM (t) UCL	8.276
Assuming Gamma Distribution		95% KM (z) UCL	8.263
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	8.171
Minimum	0	95% KM (bootstrap t) UCL	10.42
Maximum	202	95% KM (BCA) UCL	8.659
Mean	4.305	95% KM (percentile) UCL	8.538
Median	0	95% KM (Chebyshev) UCL	12.64
SD	22.45	97.5% KM (Chebyshev) UCL	15.68
k star	0.0464	99% KM (Chebyshev) UCL	21.66
Theta star	92.87		
Nu star	17.99	**Potential UCLs to Use**	
AppChi2	9.381	95% KM (BCA) UCL	8.659
95% Gamma Approximate UCL	8.254		
95% Adjusted Gamma UCL	8.296		

Arsenic

General Statistics

Number of Valid Samples	195	Number of Detected Data	190
Number of Unique Samples	132	Number of Non-Detect Data	5
		Percent Non-Detects	2.56%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	1.1	Minimum Detected	0.0953
Maximum Detected	335	Maximum Detected	5.814
Mean of Detected	18.1	Mean of Detected	2.242
SD of Detected	37.59	SD of Detected	0.993
Minimum Non-Detect	1	Minimum Non-Detect	0
Maximum Non-Detect	2.4	Maximum Non-Detect	0.875

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	18
Number treated as Detected	177
Single DL Non-Detect Percentage	9.23%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.326	Lilliefors Test Statistic	0.0662
5% Lilliefors Critical Value	0.0643	5% Lilliefors Critical Value	0.0643
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	17.66	Mean	2.177
SD	37.2	SD	1.061
95% DL/2 (t) UCL	22.06	95% H-Stat (DL/2) UCL	18.31
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	15.22	Mean in Log Scale	2.184
SD	39.46	SD in Log Scale	1.046
95% MLE (t) UCL	19.89	Mean in Original Scale	17.66
95% MLE (Tiku) UCL	19.52	SD in Original Scale	37.2
		95% Percentile Bootstrap UCL	22.41
		95% BCA Bootstrap UCL	23.63

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only	
k star (bias corrected)	0.884	Data do not follow a Discernable Distribution (0.05)	
Theta Star	20.47		
nu star	336		
A-D Test Statistic	9.582	**Nonparametric Statistics**	
5% A-D Critical Value	0.789	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.789	Mean	17.67
5% K-S Critical Value	0.0685	SD	37.1
Data not Gamma Distributed at 5% Significance Level		SE of Mean	2.664
		95% KM (t) UCL	22.07
Assuming Gamma Distribution		95% KM (z) UCL	22.05
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	22.07
Minimum	0	95% KM (bootstrap t) UCL	24.5
Maximum	335	95% KM (BCA) UCL	22.77
Mean	17.51	95% KM (percentile) UCL	22.26
Median	8.9	95% KM (Chebyshev) UCL	29.28
SD	37.27	97.5% KM (Chebyshev) UCL	34.31
k star	0.266	99% KM (Chebyshev) UCL	44.18
Theta star	65.72		
Nu star	103.9	Potential UCLs to Use	
AppChi2	81.4	95% KM (BCA) UCL	22.77
95% Gamma Approximate UCL	22.36		
95% Adjusted Gamma UCL	22.4		

Barium

General Statistics

Number of Valid Samples	189	Number of Detected Data	188
Number of Unique Samples	177	Number of Non-Detect Data	1
		Percent Non-Detects	0.53%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	41.1	Minimum Detected	3.716
Maximum Detected	10500	Maximum Detected	9.259
Mean of Detected	1380	Mean of Detected	6.254
SD of Detected	2063	SD of Detected	1.426
Minimum Non-Detect	21	Minimum Non-Detect	3.045
Maximum Non-Detect	21	Maximum Non-Detect	3.045

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.26	Lilliefors Test Statistic	0.0738
5% Lilliefors Critical Value	0.0646	5% Lilliefors Critical Value	0.0646
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1373	Mean	6.234
SD	2060	SD	1.45
95% DL/2 (t) UCL	1620	95% H-Stat (DL/2) UCL	1912
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	1366	Mean in Log Scale	6.233
SD	2062	SD in Log Scale	1.453
95% MLE (t) UCL	1614	Mean in Original Scale	1373
95% MLE (Tiku) UCL	1591	SD in Original Scale	2060
		95% Percentile Bootstrap UCL	1635
		95% BCA Bootstrap UCL	1666

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only	
k star (bias corrected)	0.623	Data do not follow a Discernable Distribution (0.05)	
Theta Star	2216		
nu star	234.1		
A-D Test Statistic	6.549	**Nonparametric Statistics**	
5% A-D Critical Value	0.808	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.808	Mean	1373
5% K-S Critical Value	0.07	SD	2054
Data not Gamma Distributed at 5% Significance Level		SE of Mean	149.8
		95% KM (t) UCL	1620
Assuming Gamma Distribution		95% KM (z) UCL	1619
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	1620
Minimum	0	95% KM (bootstrap t) UCL	1642
Maximum	10500	95% KM (BCA) UCL	1628
Mean	1373	95% KM (percentile) UCL	1638
Median	408	95% KM (Chebyshev) UCL	2026
SD	2060	97.5% KM (Chebyshev) UCL	2308
k star	0.555	99% KM (Chebyshev) UCL	2863
Theta star	2471		
Nu star	210	Potential UCLs to Use	
AppChi2	177.4	95% KM (Chebyshev) UCL	2026
95% Gamma Approximate UCL	1624		
95% Adjusted Gamma UCL	1626		

Beryllium

General Statistics

Number of Valid Samples	195	Number of Detected Data	97
Number of Unique Samples	60	Number of Non-Detect Data	98
		Percent Non-Detects	50.26%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.56	Minimum Detected	-0.58
Maximum Detected	27.3	Maximum Detected	3.307
Mean of Detected	3.617	Mean of Detected	0.503
SD of Detected	6.008	SD of Detected	1.102
Minimum Non-Detect	0.5	Minimum Non-Detect	-0.693
Maximum Non-Detect	2.3	Maximum Non-Detect	0.833

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	165
Number treated as Detected	30
Single DL Non-Detect Percentage	84.62%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.314	Lilliefors Test Statistic	0.179
5% Lilliefors Critical Value	0.09	5% Lilliefors Critical Value	0.09
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.952	Mean	-0.364
SD	4.541	SD	1.172
95% DL/2 (t) UCL	2.49	95% H-Stat (DL/2) UCL	1.675
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	-13.43	Mean in Log Scale	-0.882
SD	15.21	SD in Log Scale	1.689
95% MLE (t) UCL	-11.63	Mean in Original Scale	1.868
95% MLE (Tiku) UCL	-8.024	SD in Original Scale	4.572
		95% Percentile Bootstrap UCL	2.427
		95% BCA Bootstrap UCL	2.555

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	0.747	Data do not follow a Discernable Distribution (0.05)
Theta Star	4.844	
nu star	144.8	
A-D Test Statistic	9.352	
5% A-D Critical Value	0.794	
K-S Test Statistic	0.794	
5% K-S Critical Value	0.0944	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0	Mean	2.083
Maximum	27.3	SD	4.483
Mean	1.493	SE of Mean	0.323
Median	0	95% KM (t) UCL	2.616
SD	4.671	95% KM (z) UCL	2.614
k star	0.0537	95% KM (jackknife) UCL	2.615
Theta star	27.83	95% KM (bootstrap t) UCL	2.765
Nu star	20.92	95% KM (BCA) UCL	2.643
AppChi2	11.53	95% KM (percentile) UCL	2.657
95% Gamma Approximate UCL	2.709	95% KM (Chebyshev) UCL	3.49
95% Adjusted Gamma UCL	2.721	97.5% KM (Chebyshev) UCL	4.098
		99% KM (Chebyshev) UCL	5.294
		Potential UCLs to Use	
		95% KM (BCA) UCL	2.643

Cadmium

General Statistics

Number of Valid Samples	195	Number of Detected Data	137
Number of Unique Samples	69	Number of Non-Detect Data	58
		Percent Non-Detects	29.74%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.58	Minimum Detected	-0.545
Maximum Detected	87.5	Maximum Detected	4.472
Mean of Detected	4.283	Mean of Detected	0.689
SD of Detected	10.28	SD of Detected	1.012
Minimum Non-Detect	0.5	Minimum Non-Detect	-0.693
Maximum Non-Detect	13.5	Maximum Non-Detect	2.603

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	188
Number treated as Detected	7
Single DL Non-Detect Percentage	96.41%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.359	Lilliefors Test Statistic	0.138
5% Lilliefors Critical Value	0.0757	5% Lilliefors Critical Value	0.0757
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	3.131	Mean	0.134
SD	8.802	SD	1.227
95% DL/2 (t) UCL	4.173	95% H-Stat (DL/2) UCL	2.986
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	-104.9	Mean in Log Scale	0.0278
SD	65.63	SD in Log Scale	1.356
95% MLE (t) UCL	-97.09	Mean in Original Scale	3.083
95% MLE (Tiku) UCL	-33.67	SD in Original Scale	8.805
		95% Percentile Bootstrap UCL	4.207
		95% BCA Bootstrap UCL	4.664

Gamma Distribution Test with Detected Values Only		Nonparametric Test with Detected Values Only
k star (bias corrected)	0.765	Data do not follow a Discernable Distribution (0.05)
Theta Star	5.596	
nu star	209.7	
A-D Test Statistic	10.89	
5% A-D Critical Value	0.794	
K-S Test Statistic	0.794	
5% K-S Critical Value	0.083	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0	Mean	3.19
Maximum	87.5	SD	8.751
Mean	1.427	SE of Mean	0.629
Median	0	95% KM (t) UCL	4.23
SD	8.802	95% KM (z) UCL	4.225
k star	0.047	95% KM (jackknife) UCL	4.229
Theta star	30.37	95% KM (bootstrap t) UCL	5.147
Nu star	18.33	95% KM (BCA) UCL	4.324
AppChi2	9.627	95% KM (percentile) UCL	4.301
95% Gamma Approximate UCL	2.717	95% KM (Chebyshev) UCL	5.932
95% Adjusted Gamma UCL	2.73	97.5% KM (Chebyshev) UCL	7.119
		99% KM (Chebyshev) UCL	9.449
		Potential UCLs to Use	
		95% KM (Chebyshev) UCL	5.932

Chromium

General Statistics

Number of Valid Samples	195	Number of Unique Samples	171

Raw Statistics

Minimum	4.7
Maximum	344
Mean	50.39
Median	34.5
SD	48.05
Coefficient of Variation	0.954
Skewness	2.635

Log-transformed Statistics

Minimum of Log Data	1.548
Maximum of Log Data	5.841
Mean of log Data	3.607
SD of log Data	0.769

Relevant UCL Statistics

Normal Distribution Test

Lilliefors Test Statistic	0.221
Lilliefors Critical Value	0.0634

Data not Normal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	56.08

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	56.75
95% Modified-t UCL	56.19

Lognormal Distribution Test

Lilliefors Test Statistic	0.0647
Lilliefors Critical Value	0.0634

Data not Lognormal at 5% Significance Level

Assuming Lognormal Distribution

95% H-UCL	55.23
95% Chebyshev (MVUE) UCL	62.87
97.5% Chebyshev (MVUE) UCL	68.67
99% Chebyshev (MVUE) UCL	80.08

Gamma Distribution Test

k star (bias corrected)	1.725
Theta Star	29.22
nu star	672.7
Approximate Chi Square Value (.05)	613.6
Adjusted Level of Significance	0.0488
Adjusted Chi Square Value	613.1
Anderson-Darling Test Statistic	4.52
Anderson-Darling 5% Critical Value	0.769
Kolmogorov-Smirnov Test Statistic	0.122
Kolmogorov-Smirnov 5% Critical Value	0.066

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	55.26
95% Adjusted Gamma UCL	55.29

Nonparametric Test

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

95% CLT UCL	56.05
95% Jackknife UCL	56.08
95% Standard Bootstrap UCL	56
95% Bootstrap-t UCL	56.99
95% Hall's Bootstrap UCL	56.95
95% Percentile Bootstrap UCL	56.47
95% BCA Bootstrap UCL	56.93
95% Chebyshev(Mean, Sd) UCL	65.39
97.5% Chebyshev(Mean, Sd) UCL	71.88
99% Chebyshev(Mean, Sd) UCL	84.63

Potential UCL to Use

Use 95% Chebyshev (Mean, Sd) UCL 65.39

Chromium, Hexavalent

General Statistics

Number of Valid Samples	20	Number of Detected Data	7
Number of Unique Samples	7	Number of Non-Detect Data	13
		Percent Non-Detects	65.00%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	1.3	Minimum Detected	0.262
Maximum Detected	7.3	Maximum Detected	1.988
Mean of Detected	3.343	Mean of Detected	1.056
SD of Detected	2.012	SD of Detected	0.601
Minimum Non-Detect	1.1	Minimum Non-Detect	0.0953
Maximum Non-Detect	1.3	Maximum Non-Detect	0.262

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	13
Number treated as Detected	7
Single DL Non-Detect Percentage	65.00%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.868	Shapiro Wilk Test Statistic	0.928
5% Shapiro Wilk Critical Value	0.803	5% Shapiro Wilk Critical Value	0.803
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.545	Mean	0.011
SD	1.764	SD	0.857
95% DL/2 (t) UCL	2.227	95% H-Stat (DL/2) UCL	2.341
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	0.00661	Mean in Log Scale	-0.269
SD	3.207	SD in Log Scale	1.178
95% MLE (t) UCL	1.247	Mean in Original Scale	1.462
95% MLE (Tiku) UCL	1.935	SD in Original Scale	1.824
		95% Percentile Bootstrap UCL	2.196
		95% BCA Bootstrap UCL	2.362

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only
k star (bias corrected)	2.076	Data appear Normal at 5% Significance Level
Theta Star	1.61	
nu star	29.06	
A-D Test Statistic	0.337	
5% A-D Critical Value	0.711	
K-S Test Statistic	0.711	
5% K-S Critical Value	0.313	
Data appear Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0	Mean	2.015
Maximum	7.3	SD	1.471
Mean	1.291	SE of Mean	0.355
Median	0.312	95% KM (t) UCL	2.629
SD	1.934	95% KM (z) UCL	2.599
k star	0.108	95% KM (jackknife) UCL	2.556
Theta star	11.92	95% KM (bootstrap t) UCL	2.904
Nu star	4.332	95% KM (BCA) UCL	3.785
AppChi2	0.857	95% KM (percentile) UCL	3.375
95% Gamma Approximate UCL	6.527	95% KM (Chebyshev) UCL	3.564
95% Adjusted Gamma UCL	7.505	97.5% KM (Chebyshev) UCL	4.234
		99% KM (Chebyshev) UCL	5.55
		Potential UCLs to Use	
		95% KM (t) UCL	2.629
		95% KM (Percentile Bootstrap) UCL	3.375

Cobalt

General Statistics

Number of Valid Samples	195	Number of Detected Data	182
Number of Unique Samples	135	Number of Non-Detect Data	13
		Percent Non-Detects	6.67%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	5.6	Minimum Detected	1.723
Maximum Detected	960.5	Maximum Detected	6.867
Mean of Detected	44.55	Mean of Detected	2.911
SD of Detected	128.4	SD of Detected	0.916
Minimum Non-Detect	5.4	Minimum Non-Detect	1.686
Maximum Non-Detect	5.85	Maximum Non-Detect	1.766

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	14
Number treated as Detected	181
Single DL Non-Detect Percentage	7.18%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.442	Lilliefors Test Statistic	0.202
5% Lilliefors Critical Value	0.0657	5% Lilliefors Critical Value	0.0657
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	41.77	Mean	2.786
SD	124.4	SD	1.002
95% DL/2 (t) UCL	56.49	95% H-Stat (DL/2) UCL	31.26
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	35.26	Mean in Log Scale	2.787
SD	129.8	SD in Log Scale	1.002
95% MLE (t) UCL	50.61	Mean in Original Scale	41.77
95% MLE (Tiku) UCL	49.17	SD in Original Scale	124.4
		95% Percentile Bootstrap UCL	58.55
		95% BCA Bootstrap UCL	60.79

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only	
k star (bias corrected)	0.677	Data do not follow a Discernable Distribution (0.05)	
Theta Star	65.82		
nu star	246.4		
A-D Test Statistic	31.76	**Nonparametric Statistics**	
5% A-D Critical Value	0.802	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.802	Mean	41.95
5% K-S Critical Value	0.0713	SD	124
Data not Gamma Distributed at 5% Significance Level		SE of Mean	8.907
		95% KM (t) UCL	56.67
Assuming Gamma Distribution		95% KM (z) UCL	56.6
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	56.65
Minimum	0	95% KM (bootstrap t) UCL	62.89
Maximum	960.5	95% KM (BCA) UCL	59.51
Mean	41.55	95% KM (percentile) UCL	57.48
Median	15.1	95% KM (Chebyshev) UCL	80.78
SD	124.5	97.5% KM (Chebyshev) UCL	97.58
k star	0.278	99% KM (Chebyshev) UCL	130.6
Theta star	149.7		
Nu star	108.3	**Potential UCLs to Use**	
AppChi2	85.24	95% KM (BCA) UCL	59.51
95% Gamma Approximate UCL	52.77		
95% Adjusted Gamma UCL	52.86		

Lead

General Statistics

Number of Valid Samples	195	Number of Unique Samples	181

Raw Statistics

Minimum	3.2
Maximum	15450
Mean	558.2
Median	87.7
SD	1999
Coefficient of Variation	3.58
Skewness	5.232

Log-transformed Statistics

Minimum of Log Data	1.163
Maximum of Log Data	9.645
Mean of log Data	4.643
SD of log Data	1.449

Relevant UCL Statistics

Normal Distribution Test

Lilliefors Test Statistic	0.428
Lilliefors Critical Value	0.0634

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Lilliefors Test Statistic	0.107
Lilliefors Critical Value	0.0634

Data not Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	794.8

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	851
95% Modified-t UCL	803.7

Assuming Lognormal Distribution

95% H-UCL	387.5
95% Chebyshev (MVUE) UCL	479.2
97.5% Chebyshev (MVUE) UCL	559.5
99% Chebyshev (MVUE) UCL	717.2

Gamma Distribution Test

k star (bias corrected)	0.39
Theta Star	1432
nu star	152
Approximate Chi Square Value (.05)	124.5
Adjusted Level of Significance	0.0488
Adjusted Chi Square Value	124.3
Anderson-Darling Test Statistic	25.39
Anderson-Darling 5% Critical Value	0.847
Kolmogorov-Smirnov Test Statistic	0.28
Kolmogorov-Smirnov 5% Critical Value	0.0697

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	681.5
95% Adjusted Gamma UCL	682.5

Nonparametric Test

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

95% CLT UCL	793.7
95% Jackknife UCL	794.8
95% Standard Bootstrap UCL	797.6
95% Bootstrap-t UCL	878.6
95% Hall's Bootstrap UCL	819.4
95% Percentile Bootstrap UCL	824.3
95% BCA Bootstrap UCL	897.6
95% Chebyshev(Mean, Sd) UCL	1182
97.5% Chebyshev(Mean, Sd) UCL	1452
99% Chebyshev(Mean, Sd) UCL	1982

Potential UCL to Use

Use 97.5% Chebyshev (Mean, Sd) UCL 1452

Mercury

General Statistics

Number of Valid Samples	197	Number of Detected Data	196
Number of Unique Samples	187	Number of Non-Detect Data	1
		Percent Non-Detects	0.51%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.075	Minimum Detected	-2.59
Maximum Detected	7870	Maximum Detected	8.971
Mean of Detected	462.1	Mean of Detected	4.213
SD of Detected	1096	SD of Detected	2.395
Minimum Non-Detect	0.033	Minimum Non-Detect	-3.411
Maximum Non-Detect	0.033	Maximum Non-Detect	-3.411

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.337	Lilliefors Test Statistic	0.0964
5% Lilliefors Critical Value	0.0633	5% Lilliefors Critical Value	0.0633
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	459.7	Mean	4.171
SD	1094	SD	2.461
95% DL/2 (t) UCL	588.6	95% H-Stat (DL/2) UCL	2560
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	456.1	Mean in Log Scale	4.178
SD	1095	SD in Log Scale	2.439
95% MLE (t) UCL	585	Mean in Original Scale	459.7
95% MLE (Tiku) UCL	570.3	SD in Original Scale	1094
		95% Percentile Bootstrap UCL	593.7
		95% BCA Bootstrap UCL	622.5

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only	
k star (bias corrected)	0.348	Data do not follow a Discernable Distribution (0.05)	
Theta Star	1329		
nu star	136.3		
A-D Test Statistic	3.05	**Nonparametric Statistics**	
5% A-D Critical Value	0.857	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.857	Mean	459.7
5% K-S Critical Value	0.0698	SD	1091
Data not Gamma Distributed at 5% Significance Level		SE of Mean	77.95
		95% KM (t) UCL	588.6
Assuming Gamma Distribution		95% KM (z) UCL	588
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	588.6
Minimum	0	95% KM (bootstrap t) UCL	638
Maximum	7870	95% KM (BCA) UCL	591.7
Mean	459.7	95% KM (percentile) UCL	592.5
Median	90.8	95% KM (Chebyshev) UCL	799.5
SD	1094	97.5% KM (Chebyshev) UCL	946.6
k star	0.33	99% KM (Chebyshev) UCL	1235
Theta star	1393		
Nu star	130.1	Potential UCLs to Use	
AppChi2	104.7	97.5% KM (Chebyshev) UCL	946.6
95% Gamma Approximate UCL	571		
95% Adjusted Gamma UCL	571.9		

Methyl Mercury

General Statistics

Number of Valid Samples	9	Number of Unique Samples	9

Raw Statistics

Minimum	0.0000309
Maximum	0.125
Mean	0.0316
Median	0.00109
SD	0.0463
Coefficient of Variation	1.462
Skewness	1.395

Log-transformed Statistics

Minimum of Log Data	-10.38
Maximum of Log Data	-2.079
Mean of log Data	-6.049
SD of log Data	3.254

Relevant UCL Statistics

Normal Distribution Test

Shapiro Wilk Test Statistic	0.75
Shapiro Wilk Critical Value	0.829

Data not Normal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	0.0603

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	0.0647
95% Modified-t UCL	0.0615

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.893
Shapiro Wilk Critical Value	0.829

Data appear Lognormal at 5% Significance Level

Assuming Lognormal Distribution

95% H-UCL	19748
95% Chebyshev (MVUE) UCL	0.396
97.5% Chebyshev (MVUE) UCL	0.532
99% Chebyshev (MVUE) UCL	0.8

Gamma Distribution Test

k star (bias corrected)	0.254
Theta Star	0.124
nu star	4.576
Approximate Chi Square Value (.05)	0.962
Adjusted Level of Significance	0.0231
Adjusted Chi Square Value	0.664
Anderson-Darling Test Statistic	0.522
Anderson-Darling 5% Critical Value	0.819
Kolmogorov-Smirnov Test Statistic	0.243
Kolmogorov-Smirnov 5% Critical Value	0.303

Data appear Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	0.151
95% Adjusted Gamma UCL	0.218

Nonparametric Test

Data appear Gamma Distributed at 5% Significance Level

Nonparametric Statistics

95% CLT UCL	0.057
95% Jackknife UCL	0.0603
95% Standard Bootstrap UCL	0.0551
95% Bootstrap-t UCL	0.0913
95% Hall's Bootstrap UCL	0.093
95% Percentile Bootstrap UCL	0.0569
95% BCA Bootstrap UCL	0.0638
95% Chebyshev(Mean, Sd) UCL	0.0989
97.5% Chebyshev(Mean, Sd) UCL	0.128
99% Chebyshev(Mean, Sd) UCL	0.185

Potential UCL to Use

Use 95% Adjusted Gamma UCL 0.218

Recommended UCL exceeds the maximum observation

Selenium

General Statistics

Number of Valid Samples	195	Number of Detected Data	54
Number of Unique Samples	32	Number of Non-Detect Data	141
		Percent Non-Detects	72.31%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	1	Minimum Detected	0
Maximum Detected	8.7	Maximum Detected	2.163
Mean of Detected	2.759	Mean of Detected	0.83
SD of Detected	1.847	SD of Detected	0.594
Minimum Non-Detect	1	Minimum Non-Detect	0
Maximum Non-Detect	53	Maximum Non-Detect	3.97

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	195
Number treated as Detected	0
Single DL Non-Detect Percentage	100.00%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.173	Lilliefors Test Statistic	0.149
5% Lilliefors Critical Value	0.121	5% Lilliefors Critical Value	0.121
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.466	Mean	-0.0114
SD	2.288	SD	0.748
95% DL/2 (t) UCL	1.737	95% H-Stat (DL/2) UCL	1.453
Maximum Likelihood Estimate(MLE) Method	N/A	Robust ROS Method	
		Mean in Log Scale	-0.443
		SD in Log Scale	1.034
		Mean in Original Scale	1.115
		SD in Original Scale	1.426
		95% Percentile Bootstrap UCL	1.29
		95% BCA Bootstrap UCL	1.327

Gamma Distribution Test with Detected Values Only		Nonparametic Test with Detected Values Only	
k star (bias corrected)	2.708	Data do not follow a Discernable Distribution (0.05)	
Theta Star	1.019		
nu star	292.4		
A-D Test Statistic	2.011	**Nonparametric Statistics**	
5% A-D Critical Value	0.758	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.758	Mean	1.515
5% K-S Critical Value	0.122	SD	1.25
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.0915
		95% KM (t) UCL	1.666
Assuming Gamma Distribution		95% KM (z) UCL	1.665
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	1.637
Minimum	N/A	95% KM (bootstrap t) UCL	1.664
Maximum	N/A	95% KM (BCA) UCL	1.765
Mean	N/A	95% KM (percentile) UCL	1.712
Median	N/A	95% KM (Chebyshev) UCL	1.914
SD	N/A	97.5% KM (Chebyshev) UCL	2.086
k star	N/A	99% KM (Chebyshev) UCL	2.425
Theta star	N/A		
Nu star	N/A	**Potential UCLs to Use**	
AppChi2	N/A	95% KM (t) UCL	1.666
95% Gamma Approximate UCL	N/A	95% KM (% Bootstrap) UCL	1.712
95% Adjusted Gamma UCL	N/A		

Vanadium

General Statistics

Number of Valid Samples	195	Number of Detected Data	193
Number of Unique Samples	166	Number of Non-Detect Data	2
		Percent Non-Detects	1.03%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	10	Minimum Detected	2.303
Maximum Detected	249	Maximum Detected	5.517
Mean of Detected	48.75	Mean of Detected	3.791
SD of Detected	23.33	SD of Detected	0.447
Minimum Non-Detect	27	Minimum Non-Detect	3.296
Maximum Non-Detect	135	Maximum Non-Detect	4.905

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	194
Number treated as Detected	1
Single DL Non-Detect Percentage	99.49%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.0941	Lilliefors Test Statistic	0.0753
5% Lilliefors Critical Value	0.0638	5% Lilliefors Critical Value	0.0638
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	48.67	Mean	3.787
SD	23.39	SD	0.454
95% DL/2 (t) UCL	51.44	95% H-Stat (DL/2) UCL	51.85
Maximum Likelihood Estimate(MLE) Method	N/A	Robust ROS Method	
		Mean in Log Scale	3.788
		SD in Log Scale	0.447
		Mean in Original Scale	48.6
		SD in Original Scale	23.29
		95% Percentile Bootstrap UCL	51.41
		95% BCA Bootstrap UCL	51.9

Gamma Distribution Test with Detected Values Only		Nonparametric Test with Detected Values Only	
k star (bias corrected)	5.322	Data Follow Appr. Gamma Distribution at 5% Significance Level	
Theta Star	9.161		
nu star	2054		
A-D Test Statistic	0.943	**Nonparametric Statistics**	
5% A-D Critical Value	0.756	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.756	Mean	48.6
5% K-S Critical Value	0.0656	SD	23.28
Data follow approximate Gamma Distribution at 5% Significance Level		SE of Mean	1.674
		95% KM (t) UCL	51.37
Assuming Gamma Distribution		95% KM (z) UCL	51.36
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	51.37
Minimum	N/A	95% KM (bootstrap t) UCL	51.87
Maximum	N/A	95% KM (BCA) UCL	51.39
Mean	N/A	95% KM (percentile) UCL	51.29
Median	N/A	95% KM (Chebyshev) UCL	55.9
SD	N/A	97.5% KM (Chebyshev) UCL	59.06
k star	N/A	99% KM (Chebyshev) UCL	65.26
Theta star	N/A		
Nu star	N/A	Potential UCLs to Use	
AppChi2	N/A	95% KM (BCA) UCL	51.39
95% Gamma Approximate UCL	N/A		
95% Adjusted Gamma UCL	N/A		

alpha-Chlordane

General Statistics

Number of Valid Samples	195	Number of Detected Data	10
Number of Unique Samples	10	Number of Non-Detect Data	185
		Percent Non-Detects	94.87%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0013	Minimum Detected	-6.645
Maximum Detected	0.0232	Maximum Detected	-3.764
Mean of Detected	0.00942	Mean of Detected	-5.034
SD of Detected	0.00774	SD of Detected	0.98
Minimum Non-Detect	0.00037	Minimum Non-Detect	-7.902
Maximum Non-Detect	0.39	Maximum Non-Detect	-0.942

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	195
Number treated as Detected	0
Single DL Non-Detect Percentage	100.00%

UCL Statistics

Normal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.877
5% Lilliefors Critical Value	0.842

Data appear Normal at 5% Significance Level

Assuming Normal Distribution

DL/2 Substitution Method	
Mean	0.00515
SD	0.0187
95% DL/2 (t) UCL	0.00736
Maximum Likelihood Estimate(MLE) Method	N/A

Lognormal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.945
5% Lilliefors Critical Value	0.842

Data appear Lognormal at 5% Significance Level

Assuming Lognormal Distribution

DL/2 Substitution Method	
Mean	-6.585
SD	1.363
95% H-Stat (DL/2) UCL	0.00445
Robust ROS Method	
Mean in Log Scale	-9.684
SD in Log Scale	1.822
Mean in Original Scale	0.00060814
SD in Original Scale	0.00265
95% Percentile Bootstrap UCL	0.00095613
95% BCA Bootstrap UCL	0.00105

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	1.117
Theta Star	0.00843
nu star	22.35
A-D Test Statistic	0.227
5% A-D Critical Value	0.739
K-S Test Statistic	0.739
5% K-S Critical Value	0.271

Data appear Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	N/A
Maximum	N/A
Mean	N/A
Median	N/A
SD	N/A
k star	N/A
Theta star	N/A
Nu star	N/A
AppChi2	N/A
95% Gamma Approximate UCL	N/A
95% Adjusted Gamma UCL	N/A

Nonparametric Test with Detected Values Only

Data appear Normal at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.00177
SD	0.00252
SE of Mean	0.00019764
95% KM (t) UCL	0.00209
95% KM (z) UCL	0.00209
95% KM (jackknife) UCL	0.00213
95% KM (bootstrap t) UCL	0.00219
95% KM (BCA) UCL	0.00657
95% KM (percentile) UCL	0.00357
95% KM (Chebyshev) UCL	0.00263
97.5% KM (Chebyshev) UCL	0.003
99% KM (Chebyshev) UCL	0.00373

Potential UCLs to Use

95% KM (t) UCL	0.00209
95% KM (Percentile Bootstrap) UCL	0.00357

Hexachlorobenzene

General Statistics

Number of Valid Samples	195	Number of Detected Data	112
Number of Unique Samples	108	Number of Non-Detect Data	83
		Percent Non-Detects	42.56%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0238	Minimum Detected	-3.738
Maximum Detected	1440	Maximum Detected	7.272
Mean of Detected	19.99	Mean of Detected	-0.669
SD of Detected	138.7	SD of Detected	2.054
Minimum Non-Detect	0.02	Minimum Non-Detect	-3.912
Maximum Non-Detect	2.1	Maximum Non-Detect	0.742

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	175
Number treated as Detected	20
Single DL Non-Detect Percentage	89.74%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.466	Lilliefors Test Statistic	0.097
5% Lilliefors Critical Value	0.0837	5% Lilliefors Critical Value	0.0837
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	11.51	Mean	-1.761
SD	105.4	SD	2.136
95% DL/2 (t) UCL	23.98	95% H-Stat (DL/2) UCL	2.796
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	-540.6	Mean in Log Scale	-2.397
SD	408.6	SD in Log Scale	2.674
95% MLE (t) UCL	-492.2	Mean in Original Scale	11.49
95% MLE (Tiku) UCL	-334.2	SD in Original Scale	105.4
		95% Percentile Bootstrap UCL	25.88
		95% BCA Bootstrap UCL	38.64

Gamma Distribution Test with Detected Values Only		Nonparametric Test with Detected Values Only
k star (bias corrected)	0.201	Data do not follow a Discernable Distribution (0.05)
Theta Star	99.29	
nu star	45.09	
A-D Test Statistic	19.55	
5% A-D Critical Value	0.912	
K-S Test Statistic	0.912	
5% K-S Critical Value	0.0956	
Data not Gamma Distributed at 5% Significance Level		

Assuming Gamma Distribution		Nonparametric Statistics	
Gamma ROS Statistics using Extrapolated Data		Kaplan-Meier (KM) Method	
Minimum	0	Mean	11.5
Maximum	1440	SD	105.1
Mean	11.26	SE of Mean	7.559
Median	0	95% KM (t) UCL	23.99
SD	105.4	95% KM (z) UCL	23.93
k star	0.0455	95% KM (jackknife) UCL	23.97
Theta star	247.5	95% KM (bootstrap t) UCL	72.41
Nu star	17.75	95% KM (BCA) UCL	27.12
AppChi2	9.211	95% KM (percentile) UCL	25.77
95% Gamma Approximate UCL	21.71	95% KM (Chebyshev) UCL	44.45
95% Adjusted Gamma UCL	21.82	97.5% KM (Chebyshev) UCL	58.71
		99% KM (Chebyshev) UCL	86.71
		Potential UCLs to Use	
		97.5% KM (Chebyshev) UCL	58.71

Aroclor 1254/1260

General Statistics

Number of Valid Samples	195	Number of Unique Samples	167

Raw Statistics

Minimum	0.0115
Maximum	28.81
Mean	1.85
Median	0.426
SD	3.809
Coefficient of Variation	2.059
Skewness	3.635

Log-transformed Statistics

Minimum of Log Data	-4.47
Maximum of Log Data	3.361
Mean of log Data	-1.185
SD of log Data	2.169

Relevant UCL Statistics

Normal Distribution Test

Lilliefors Test Statistic	0.315
Lilliefors Critical Value	0.0634

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Lilliefors Test Statistic	0.134
Lilliefors Critical Value	0.0634

Data not Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	2.3

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL	2.374
95% Modified-t UCL	2.312

Assuming Lognormal Distribution

95% H-UCL	5.408
95% Chebyshev (MVUE) UCL	6.686
97.5% Chebyshev (MVUE) UCL	8.243
99% Chebyshev (MVUE) UCL	11.3

Gamma Distribution Test

k star (bias corrected)	0.368
Theta Star	5.027
nu star	143.5
Approximate Chi Square Value (.05)	116.8
Adjusted Level of Significance	0.0488
Adjusted Chi Square Value	116.6
Anderson-Darling Test Statistic	4.976
Anderson-Darling 5% Critical Value	0.852
Kolmogorov-Smirnov Test Statistic	0.118
Kolmogorov-Smirnov 5% Critical Value	0.0699

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL	2.272
95% Adjusted Gamma UCL	2.275

Nonparametric Test

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

95% CLT UCL	2.298
95% Jackknife UCL	2.3
95% Standard Bootstrap UCL	2.305
95% Bootstrap-t UCL	2.401
95% Hall's Bootstrap UCL	2.383
95% Percentile Bootstrap UCL	2.312
95% BCA Bootstrap UCL	2.377
95% Chebyshev(Mean, Sd) UCL	3.038
97.5% Chebyshev(Mean, Sd) UCL	3.553
99% Chebyshev(Mean, Sd) UCL	4.563

Potential UCL to Use

Use 99% Chebyshev (Mean, Sd) UCL 4.563

Trichloroethylene (TCE)

General Statistics

Number of Valid Samples	194	Number of Detected Data	16
Number of Unique Samples	16	Number of Non-Detect Data	178
		Percent Non-Detects	91.75%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.00095	Minimum Detected	-6.959
Maximum Detected	124	Maximum Detected	4.82
Mean of Detected	10.21	Mean of Detected	-3.699
SD of Detected	31.08	SD of Detected	3.846
Minimum Non-Detect	0.0034	Minimum Non-Detect	-5.684
Maximum Non-Detect	0.58	Maximum Non-Detect	-0.545

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, Robust ROS, and Gamma ROS),
those Observations < Largest ND are treated as NDs

Number treated as Non-Detect	191
Number treated as Detected	3
Single DL Non-Detect Percentage	98.45%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.381	Lilliefors Test Statistic	0.76
5% Lilliefors Critical Value	0.887	5% Lilliefors Critical Value	0.887
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.856	Mean	-5.103
SD	9.109	SD	1.541
95% DL/2 (t) UCL	1.937	95% H-Stat (DL/2) UCL	0.0267
Maximum Likelihood Estimate(MLE) Method		Robust ROS Method	
Mean	N/A	Mean in Log Scale	-5.982
SD	N/A	SD in Log Scale	1.745
95% MLE (t) UCL	N/A	Mean in Original Scale	0.845
95% MLE (Tiku) UCL	N/A	SD in Original Scale	9.11
		95% Percentile Bootstrap UCL	2.037
		95% BCA Bootstrap UCL	3.288

Gamma Distribution Test with Detected Values Only		Nonparametric Test with Detected Values Only	
k star (bias corrected)	0.147	Data do not follow a Discernable Distribution (0.05)	
Theta Star	69.2		
nu star	4.719		
A-D Test Statistic	2.724	**Nonparametric Statistics**	
5% A-D Critical Value	0.905	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.905	Mean	0.844
5% K-S Critical Value	0.241	SD	9.086
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.674
		95% KM (t) UCL	1.957
Assuming Gamma Distribution		95% KM (z) UCL	1.952
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	1.925
Minimum	N/A	95% KM (bootstrap t) UCL	631
Maximum	N/A	95% KM (BCA) UCL	2.123
Mean	N/A	95% KM (percentile) UCL	2.095
Median	N/A	95% KM (Chebyshev) UCL	3.781
SD	N/A	97.5% KM (Chebyshev) UCL	5.051
k star	N/A	99% KM (Chebyshev) UCL	7.547
Theta star	N/A		
Nu star	N/A	Potential UCLs to Use	
AppChi2	N/A	97.5% KM (Chebyshev) UCL	5.051
95% Gamma Approximate UCL	N/A		
95% Adjusted Gamma UCL	N/A		